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[Continued on next page]

(54) Title: METHODS AND COMPOSITIONS FOR WEED CONTROL

(57) Abstract: Novel compositions for use to enhance weed control. Specifically, the present invention provides for methods and compositions that modulate protoporphyrinogen IX oxidase in weed species. The present invention also provides for combinations of compositions and methods that enhance weed control.

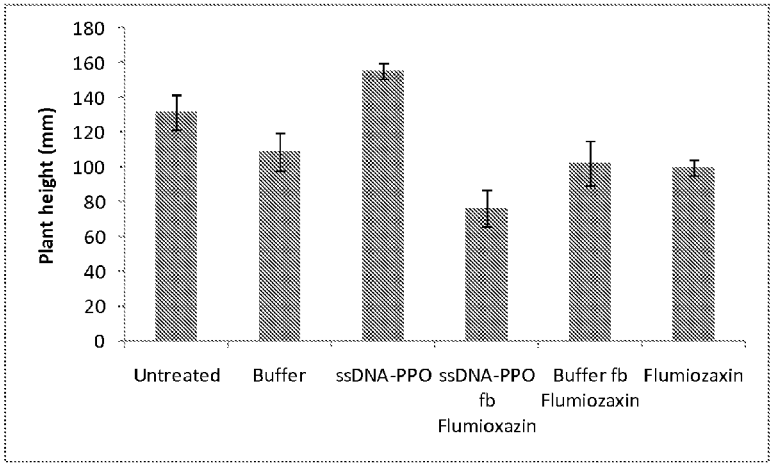


Figure 1

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METHODS AND COMPOSITIONS FOR WEED CONTROL

This application claims benefit under 35USC § 119(e) of United States provisional application serial no. 61/534,086 filed 09/13/2011, herein incorporated by reference in it's entirety. The sequence listing that is contained in the file named "40_21(58640)B seq listing.txt", which is 862,548 bytes (measured in operating system MS-Windows) and was created on 4 Sept 2012, is filed herewith and incorporated herein by reference.

Table 1 is provided herewith as a part of this U.S. patent application via the USPTO's EFS system in file named "40_21(58640)Btable 1.doxc " which is 61,788 bytes in size (measured in MS-Windows®). Table 1 (file "40_21(58640)Btable1.doxc" comprises 71 sequences and is herein incorporated by reference in its entirety.

Table 2 is provided herewith as a part of this U.S. patent application via the USPTO's EFS system in file named "40_21(58640)Btable2.doxc " which is 161,884 bytes in size (measured in MS-Windows®). Table 2 (file "40_21(58640)Btable2.doxc" comprises 1268 sequences and is herein incorporated by reference in its entirety.

Table 3 is provided herewith as a part of this U.S. patent application via the USPTO's EFS system in file named "40_21(58640)Btable3.txt " which is 41,120 bytes in size (measured in MS-Windows®). Table 2 (file "40_21(58640)Btable3.txt" comprises 832 sequences and is herein incorporated by reference in its entirety.

FIELD

The methods and compositions generally relates to the field of weed management. More specifically, relates to protoporphyrinogen IX oxidase (PPG oxidase) genes in plants and compositions containing polynucleotide molecules for modulating and/or regulating their expression. Further provided are methods and compositions useful for weed control. The reference to any prior art in this specification is not, and should not be taken as an acknowledgement or any form of suggestion that such art forms part of the common general knowledge at it relates to the claims defining the invention.

BACKGROUND

Weeds are plants that compete with cultivated plants in an agronomic environment and cost farmers billions of dollars annually in crop losses and the expense of efforts to keep weeds

under control. Weeds also serve as hosts for crop diseases and insect pests. The losses caused by weeds in agricultural production environments include decreases in crop yield, reduced crop quality, increased irrigation costs, increased harvesting costs, reduced land value, injury to livestock, and crop damage from insects and diseases harbored by the weeds. The principal means by which weeds cause these effects are: 1) competing with crop plants for water, nutrients, sunlight and other essentials for growth and development, 2) production of toxic or irritant chemicals that cause human or animal health problem, 3) production of immense quantities of seed or vegetative reproductive parts or both that contaminate agricultural products and perpetuate the species in agricultural lands, and 4) production on agricultural and nonagricultural lands of vast amounts of vegetation that must be disposed of. Herbicide tolerant weeds are a problem with nearly all herbicides in use, there is a need to effectively manage these weeds. There are over 365 weed biotypes currently identified as being herbicide resistant to one or more herbicides by the Herbicide Resistance Action Committee (HRAC), the North American Herbicide Resistance Action Committee (NAHRAC), and the Weed Science Society of America (WSSA).

BRIEF DESCRIPTION OF THE FIGURES

The following drawings form part of the present specification and are included to further demonstrate certain methods, compositions or results. They may be better understood by reference to one or more of these drawings in combination with the detailed description of specific embodiments presented herein. The invention can be more fully understood from the following description of the figures:

Figure 1. Treatment of *Amaranthus palmeri* with ssDNA trigger polynucleotides and PPG oxidase inhibitor herbicide, flumioxazin.

Figure 2. Treatment of *Amaranthus palmeri* with ssDNA trigger polynucleotides and PPG oxidase inhibitor herbicide, fomesafen.

Figure 3. Treatment of *Amranthus palmeri* with pooled oligos and ssDNA trigger polynucleotides and PPG oxidase inhibitor herbicide, Reflex® (fomesafen).

SUMMARY

In one aspect, the invention provides a method of plant control comprising an external application to a plant of a composition comprising a polynucleotide and a transfer agent, wherein

the polynucleotide is essentially identical or essentially complementary to a PPG oxidase gene sequence or fragment thereof, or to the RNA transcript of said PPG oxidase gene sequence or fragment thereof, wherein said PPG oxidase gene sequence is selected from the group consisting of SEQ ID NO:1-71 or a polynucleotide fragment thereof, whereby the plant growth or development or reproductive ability is reduced or the weedy plant is made more sensitive to a PPG oxidase inhibitor herbicide relative to a plant not treated with said composition. In this manner, plants that have become resistant to the application of PPG oxidase inhibitor contanining herbicides may be made more susceptible to the herbicidal effects of a PPG oxidase inhibitor containing herbicide, thus potentiating the effect of the herbicide. The polynucleotide fragment is at least 18 contiguous nucleotides, at least 19 contiguous nucleotides, at least 20 contiguous nucleotides or at least 21 contiguous nucleotides in length and at least 85 percent identical to a PPG oxidase gene sequence selected from the group consisting of SEQ ID NO:1-71 and the transfer agent is an organosilicone composition or compound. The polynucleotide fragment can also be sense or anti-sense ssDNA or ssRNA, dsRNA, or dsDNA, or dsDNA/RNA hybrids. The composition can include more than one polynucleotide fragments, and the composition can include a PPG oxidase inhibitor herbicide and/or other herbicides that enhance the weed control activity of the composition.

In another aspect, polynucleotide molecules and methods for modulating PPG oxidase gene expression in weedy plant species are provided. The method reduces, represses or otherwise delays expression of a PPG oxidase gene in a weedy plant comprising an external application to a weedy plant of a composition comprising a polynucleotide and a transfer agent, wherein the polynucleotide is essentially identical or essentially complementary to a PPG oxidase gene sequence or fragment thereof, or to the RNA transcript of the PPG oxidase gene sequence or fragment thereof, wherein the PPG oxidase gene sequence is selected from the group consisting of SEQ ID NO:1-71 or a polynucleotide fragment thereof. The polynucleotide fragment fragment is at least 18 contiguous nucleotides, at least 19 contiguous nucleotides, at least 20 contiguous nucleotides at least 21 contiguous nucleotides in length and at least 85 percent identical to a PPG oxidase gene sequence selected from the group consisting of SEQ ID NO:1-71 and the transfer agent is an organosilicone compound. The polynucleotide fragment can also be sense or anti-sense ssDNA or ssRNA, dsRNA, or dsDNA, or dsDNA/RNA hybrids.

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In a further aspect, the polynucleotide molecule containing composition may be combined with other herbicidal compounds to provide additional control of unwanted plants in a field of cultivated plants.

In a further aspect, the polynucleotide molecule composition may be combined with any one or more additional agricultural chemicals, such as, insecticides, fungicides, nematocides, bactericides, acaricides, growth regulators, chemosterilants, semiochemicals, repellents, attractants, pheromones, feeding stimulants, biopesticides, microbial pesticides or other biologically active compounds to form a multi-component pesticide giving an even broader spectrum of agricultural protection.

DETAILED DESCRIPTION

Provided are methods and compositions containing a polynucleotide that provide for regulation, repression or delay of PPG oxidase (protoporphyrinogen IX oxidase) gene expression and enhanced control of weedy plant species amd importantly PPG oxidase inhibitor resistant weed biotypes. Aspects of the method can be applied to manage various weedy plants in agronomic and other cultivated environments.

The following definitions and methods are provided to better define the present invention and to guide those of ordinary skill in the art in the practice of the present invention. Unless otherwise noted, terms are to be understood according to conventional usage by those of ordinary skill in the relevant art. Where a term is provided in the singular, the inventors also contemplate aspects of the invention described by the plural of that term. The word "comprise" and its variations, such as "comprises" and "comprising", means including, but not limited to, whatever follows the word.

By "non-transcribable" polynucleotides is meant that the polynucleotides do not comprise a complete polymerase II transcription unit.

As used herein "solution" refers to homogeneous mixtures and non-homogeneous mixtures such as suspensions, colloids, micelles, and emulsions.

Weedy plants are plants that compete with cultivated plants, those of particular importance include, but are not limited to important invasive and noxious weeds and herbicide resistant biotypes in crop production, such as, *Amaranthus* species -*A. albus*, *A. blitoides*, *A. hybridus*, *A. palmeri*, *A. powellii*, *A. retroflexus*, *A. spinosus*, *A. tuberculatus*, and *A. viridis*; *Ambrosia* species - *A. trifida, A. artemisifolia; Lolium* species -*L. multiflorum, L. rigidium, L perenne; Digitaria* species -*D. insularis; Euphorbia* species -*E. heterophylla; Kochia species* -

K. scoparia; Sorghum species -*S. halepense; Conyza* species -*C. bonariensis, C. canadensis, C. sumatrensis; Chloris* species -*C. truncate; Echinochola* species - *E. colona, E. crus-galli; Eleusine species -E. indica; Poa* species -*P. annua; Plantago* species -*P. lanceolata; Avena species - A. fatua; Chenopodium* species - *C. album; Setaria* species – *S. viridis, Abutilon theophrasti, Ipomoea* species, *Sesbania,* species, *Cassia* species, *Sida* species, *Brachiaria,* species and *Solanum* species.

Additional weedy plant species found in cultivated areas include *Alopecurus myosuroides, Avena sterilis, Avena sterilis ludoviciana, Brachiaria plantaginea, Bromus diandrus, Bromus rigidus, Cynosurus echinatus, Digitaria ciliaris, Digitaria ischaemum, Digitaria sanguinalis, Echinochloa oryzicola, Echinochloa phyllopogon, Eriochloa punctata, Hordeum glaucum, Hordeum leporinum, Ischaemum rugosum, Leptochloa chinensis, Lolium persicum, , Phalaris minor, Phalaris paradoxa, Rottboellia exalta, Setaria faberi, Setaria viridis var, robusta-alba schreiber, Setaria viridis var, robusta -purpurea, Snowdenia polystachea, Sorghum sudanese, Alisma plantago-aquatica, Amaranthus lividus, Amaranthus quitensis, Ammania auriculata, Ammania coccinea, Anthemis cotula, Apera spica-venti, Bacopa rotundifolia, Bidens pilosa, Bidens subalternans, Brassica tournefortii, Bromus tectorum, Camelina microcarpa, Chrysanthemum coronarium, Cuscuta campestris, Cyperus difformis, Damasonium minus, Descurainia sophia, Diplotaxis tenuifolia, Echium plantagineum, Elatine triandra var, pedicellata, Euphorbia heterophylla, Fallopia convolvulus, Fimbristylis miliacea, Galeopsis tetrahit, Galium spurium, Helianthus annuus, Iva xanthifolia, Ixophorus unisetus, Ipomoea indica, Ipomoea purpurea, Ipomoea sepiaria, Ipomoea aquatic, Ipomoea triloba, Lactuca serriola, Limnocharis flava, Limnophila erecta, Limnophila sessiliflora, Lindernia dubia, Lindernia dubia var, major, Lindernia micrantha, Lindernia procumbens, Mesembryanthemum crystallinum, Monochoria korsakowii, Monochoria vaginalis, Neslia paniculata, Papaver rhoeas, Parthenium hysterophorus, Pentzia suffruticosa, Phalaris minor, Raphanus raphanistrum, Raphanus sativus, Rapistrum rugosum, Rotala indica var, uliginosa, Sagittaria guyanensis, Sagittaria montevidensis, Sagittaria pygmaea, Salsola iberica, Scirpus juncoides var, ohwianus, Scirpus mucronatus, Setaria lutescens, Sida spinosa, Sinapis arvensis, Sisymbrium orientale, Sisymbrium thellungii, Solanum ptycanthum, Sonchus asper, Sonchus oleraceus, Sorghum bicolor, Stellaria media, Thlaspi arvense, Xanthium strumarium, Arctotheca calendula, Conyza sumatrensis, Crassocephalum crepidiodes, Cuphea carthagenenis, Epilobium*

adenocaulon, Erigeron philadelphicus, Landoltia punctata, Lepidium virginicum, Monochoria korsakowii, Solanum americanum, Solanum nigrum, Vulpia bromoides, Youngia japonica, Hydrilla verticillata, Carduus nutans, Carduus pycnocephalus, Centaurea solstitialis, Cirsium arvense, Commelina diffusa, Convolvulus arvensis, Daucus carota, Digitaria ischaemum, Echinochloa crus-pavonis, Fimbristylis miliacea, Galeopsis tetrahit, Galium spurium, Limnophila erecta, Matricaria perforate, Papaver rhoeas, Ranunculus acris, Soliva sessilis, Sphenoclea zeylanica, Stellaria media, Nassella trichotoma, Stipa neesiana, Agrostis stolonifera, Polygonum aviculare, Alopecurus japonicus, Beckmannia syzigachne, Bromus tectorum, Chloris inflate, Echinochloa erecta, Portulaca oleracea, and Senecio vulgaris. It is believed that all plants contain an protoporphyrinogen IX oxidase gene in their genome, the sequence of which can be isolated and polynucleotides made according to the methods of the present invention that are useful for regulating, suppressing or delaying the expression of the target PPG oxidase gene in the plants and the growth or development of the treated plants.

Some cultivated plants may also be weedy plants when they occur in unwanted environments. Transgenic crops with one or more herbicide tolerances will need specialized methods of management to control weeds and volunteer crop plants and to target the herbicide tolerance transgene as necessary to permit the treated plants to become sensitive to the herbicide.

A "trigger" or "trigger polynucleotide" is a polynucleotide molecule that is homologous or complementary to a target gene polynucleotide. The trigger polynucleotide molecules modulate expression of the target gene when topically applied to a plant surface with a transfer agent, whereby a plant treated with said compositon has its growth or development or reproductive ability regulated, suppressed or delayed or said plant is more sensitive to a PPG oxidase inhibitor herbicide or mitosis inhibitor herbicide as a result of said polynucleotide containing composition relative to a plant not treated with a composition containing the trigger molecule.

It is contemplated that the composition of the present invention will contain multiple polynucleotides and herbicides that include but not limited to PPG oxidase gene trigger polynucleotides and a PPG oxidase inhibitor herbicide and anyone or more additional herbicide target gene trigger polynucleotides and the related herbicides and anyone or more additional essential gene trigger polynucleotides. Essential genes are genes in a plant that provide key enzymes or other proteins, for example, a biosynthetic enzyme, metabolizing enzyme, receptor,

signal transduction protein, structural gene product, transcription factor, or transport protein; or regulating RNAs, such as, microRNAs, that are essential to the growth or survival of the organism or cell or involved in the normal growth and development of the plant (Meinke, et al., Trends Plant Sci. 2008 Sep;13(9):483-91). The suppression of an essential gene enhances the effect of a herbicide that affects the function of a gene product different than the suppressed essential gene. The compositions of the present invention can include various trigger polynucleotides that modulate the expression of an essential gene other tha PPG oxidase.

Herbicides for which transgenes for plant tolerance have been demonstrated and the method of the present invention can be applied, include but are not limited to: auxin-like herbicides, glyphosate, glufosinate, sulfonylureas, imidazolinones, bromoxynil, delapon, dicamba, cyclohezanedione, protoporphyrionogen oxidase inhibitors, 4-hydroxyphenyl-pyruvate-dioxygenase inhibitors herbicides. For example, transgenes and their polynucleotide molecules that encode proteins involved in herbicide tolerance are known in the art, and include, but are not limited to an 5-enolpyruvylshikimate-3-phosphate synthase (EPSPS), for example, as more fully described in U.S. Pat. Nos. 7,807,791 (SEQ ID NO:5); 6,248,876 B1; 5,627,061; 5,804,425; 5,633,435; 5,145,783; 4,971,908; 5,462,910; 5,188,642; 4,940,835; 5,866,775; 6,225,114 B1; 6,130,366; 5,460,667; 4,535,060; 4,769,061; 5,633,448; 5,510,471; U.S. Pat. No. Re. 36,449; U.S. Pat. Nos. RE 37,287 E; and 5,491,288; tolerance to sulfonylurea and/or imidazolinone, for example, as described more fully in U.S. Pat. Nos. 5,605,011; 5,013,659; 5,141,870; 5,767,361; 5,746,180; 5,304,732; 4,761,373; 5,346,107; 5,928,937; and 5,378,824; and international publication WO 96/33270; tolerance to hydroxyphenylpyruvatedioxygenases inhibitiong herbicides in plants are described in U.S. Pat. Nos. 6,245,968 B1; 6,268,549; and 6,069,115; US Pat.Pub. 20110191897 and US7,462,379 SEQ ID NO:3; US7,935,869; US7,304,209, SEQ ID NO:1, 3,5 and 15; aryloxyalkanoate dioxygenase polynucleotides, which confer tolerance to 2,4-D and other phenoxy auxin herbicides as well as to aryloxyphenoxypropionate herbicides as described, for example, in WO2005/107437; US7,838,733 SEQ ID NO:5;) and dicamba-tolerance polynucleotides as described, for example, in Herman et al. (2005) J. Biol. Chem. 280: 24759-24767. Other examples of herbicide-tolerance traits include those conferred by polynucleotides encoding an exogenous phosphinothricin acetyltransferase, as described in U.S. Pat. Nos. 5,969,213; 5,489,520; 5,550,468; 5,874,265; 5,919,675; 5,561,236; 5,648,477; 5,646,024; 6,177,616; and 5,879,903. Plants containing an exogenous phosphinothricin

acetyltransferase can exhibit improved tolerance to glufosinate herbicides, which inhibit the enzyme glutamine synthase. Additionally, herbicide-tolerance polynucleotides include those conferred by polynucleotides conferring altered protoporphyrinogen oxidase (protox) activity, as described in U.S. Pat. Nos. 6,288,306 B1; 6,282,837 B1; and 5,767,373; and WO 01/12825. Plants containing such polynucleotides can exhibit improved tolerance to any of a variety of herbicides which target the protox enzyme (also referred to as protox inhibitors). Polynucleotides encoding a glyphosate oxidoreductase and a glyphosate-N-acetyl transferase (GOX described in U.S. Patent 5,463,175 and GAT described in U.S. Patent publication 20030083480, dicamba monooxygenase U.S. Patent publication 20030135879, all of which are incorporated herein by reference); a polynucleotide molecule encoding bromoxynil nitrilase (*Bxn* described in U.S. Patent No. 4,810,648 for Bromoxynil tolerance, which is incorporated herein by reference); a polynucleotide molecule encoding phytoene desaturase (*crtI*) described in Misawa et al, (1993) *Plant J.* 4:833-840 and Misawa et al, (1994) *Plant J.* 6:481-489 for norflurazon tolerance; a polynucleotide molecule encoding acetohydroxyacid synthase (AHAS, *aka* ALS) described in Sathasiivan *et al.* (1990) *Nucl. Acids Res.* 18:468-2193 for tolerance to sulfonylurea herbicides; and the *bar* gene described in DeBlock, *et al.* (1987) *EMBO J.* 6:2513-2519 for glufosinate and bialaphos tolerance. The transgenic coding regions and regulatory elements of the herbicide tolerance genes are targets in which polynucleotide triggers and herbicides can be included in the composition of the present invention.

The composition includes a component that is a PPG oxidase inhibitor herbicide, which include but is not limited to acifluorfen-Na, bifenox, chlomethoxyfen, fluoroglycofen-ethyl, fomesafen, halosafen, lactofen, oxyfluorfen, fluazolate, pyraflufen-ethyl, cinidon-ethyl, flumioxazin, flumiclorac-pentyl, fluthiacet-methyl, thidiazimin, oxadiazon, oxadiargyl, azafenidin, carfentrazone-ethyl, sulfentrazone, pentoxazone. Benzfendizone, butafenacil, pyrazogyl, and profluazol.

Numerous additional herbicides with similar or different modes of action (herein referred to as co-herbicides) are available that can be added to the composition, for example, members of the herbicide families that include but are not limited to amide herbicides, aromatic acid herbicides, arsenical herbicides, benzothiazole herbicides, benzoylcyclohexanedione herbicides, benzofuranyl alkylsulfonate herbicides, carbamate herbicides, cyclohexene oxime herbicides, cyclopropylisoxazole herbicides, dicarboximide herbicides, dinitroaniline herbicides,

dinitrophenol herbicides, diphenyl ether herbicides, dithiocarbamate herbicides, halogenated aliphatic herbicides, imidazolinone herbicides, inorganic herbicides, nitrile herbicides, organophosphorus herbicides, oxadiazolone herbicides, oxazole herbicides, phenoxy herbicides, phenylenediamine herbicides, pyrazole herbicides, pyridazine herbicides, pyridazinone herbicides, pyridine herbicides, pyrimidinediamine herbicides, pyrimidinyloxybenzylamine herbicides, quaternary ammonium herbicides, thiocarbamate herbicides, thiocarbonate herbicides, thiourea herbicides, triazine herbicides, triazinone herbicides, triazole herbicides, triazolone herbicides, triazolopyrimidine herbicides, uracil herbicides, and urea herbicides. In particular, the rates of use of the added herbicides can be reduced in compositions comprising the polynucleotides. Use rate reductions of the additional added herbicides can be 10-25 percent, 26-50 percent, 51-75 percent or more can be achieved that enhance the activity of the polynucleotides and herbicide composition and is contemplated. Representative co-herbicides of the families include but are not limited to acetochlor, acifluorfen, acifluorfen-sodium, aclonifen, acrolein, alachlor, alloxydim, allyl alcohol, ametryn, amicarbazone, amidosulfuron, aminopyralid, amitrole, ammonium sulfamate, anilofos, asulam, atraton, atrazine, azimsulfuron, BCPC, beflubutamid, benazolin, benfluralin, benfuresate, bensulfuron, bensulfuron-methyl, bensulide, bentazone, benzfendizone, benzobicyclon, benzofenap, bifenox, bilanafos, bispyribac, bispyribac-sodium, borax, bromacil, bromobutide, bromoxynil, butachlor, butafenacil, butamifos, butralin, butroxydim, butylate, cacodylic acid, calcium chlorate, cafenstrole, carbetamide, carfentrazone, carfentrazone-ethyl, CDEA, CEPC, chlorflurenol, chlorflurenol-methyl, chloridazon, chlorimuron, chlorimuron-ethyl, chloroacetic acid, chlorotoluron, chlorpropham, chlorsulfuron, chlorthal, chlorthal-dimethyl, cinidon-ethyl, cinmethylin, cinosulfuron, cisanilide, clethodim, clodinafop, clodinafop-propargyl, clomazone, clomeprop, clopyralid, cloransulam, cloransulam-methyl, CMA, 4-CPB, CPMF, 4-CPP, CPPC, cresol, cumyluron, cyanamide, cyanazine, cycloate, cyclosulfamuron, cycloxydim, cyhalofop, cyhalofop-butyl, 2,4-D, 3,4-DA, daimuron, dalapon, dazomet, 2,4-DB, 3,4-DB, 2,4-DEB, desmedipham, dicamba, dichlobenil, ortho-dichlorobenzene, para-dichlorobenzene, dichlorprop, dichlorprop-P, diclofop, diclofop-methyl, diclosulam, difenzoquat, difenzoquat metilsulfate, diflufenican, diflufenzopyr, dimefuron, dimepiperate, dimethachlor, dimethametryn, dimethenamid, dimethenamid-P, dimethipin, dimethylarsinic acid, dinitramine, dinoterb, diphenamid, diquat, diquat

dibromide, dithiopyr, diuron, DNOC, 3,4-DP, DSMA, EBEP, endothal, EPTC, esprocarb, ethalfluralin, ethametsulfuron, ethametsulfuron-methyl, ethofumesate, ethoxyfen, ethoxysulfuron, etobenzanid, fenoxaprop-P, fenoxaprop-P-ethyl, fentrazamide, ferrous sulfate, flamprop-M, flazasulfuron, florasulam, fluazifop, fluazifop-butyl, fluazifop-P, fluazifop-P-butyl, flucarbazone, flucarbazone-sodium, flucetosulfuron, fluchloralin, flufenacet, flufenpyr, flufenpyr-ethyl, flumetsulam, flumiclorac, flumiclorac-pentyl, flumioxazin, fluometuron, fluoroglycofen, fluoroglycofen-ethyl, flupropanate, flupyrsulfuron, flupyrsulfuron-methyl-sodium, flurenol, fluridone, fluorochloridone, fluoroxypyr, flurtamone, fluthiacet, fluthiacet-methyl, fomesafen, foramsulfuron, fosamine, glufosinate, glufosinate-ammonium, glyphosate, halosulfuron, halosulfuron-methyl, haloxyfop, haloxyfop-P, HC-252, hexazinone, imazamethabenz, imazamethabenz-methyl, imazamox, imazapic, imazapyr, imazaquin, imazethapyr, imazosulfuron, indanofan, iodomethane, iodosulfuron, iodosulfuron-methyl-sodium, ioxynil, isoproturon, isouron, isoxaben, isoxachlortole, isoxaflutole, karbutilate, lactofen, lenacil, linuron, MAA, MAMA, MCPA, MCPA-thioethyl, MCPB, mecoprop, mecoprop-P, mefenacet, mefluidide, mesosulfuron, mesosulfuron-methyl, mesotrione, metam, metamifop, metamitron, metazachlor, methabenzthiazuron, methylarsonic acid, methyldymron, methyl isothiocyanate, metobenzuron, metolachlor, S-metolachlor, metosulam, metoxuron, metribuzin, metsulfuron, metsulfuron-methyl, MK-66, molinate, monolinuron, MSMA, naproanilide, napropamide, naptalam, neburon, nicosulfuron, nonanoic acid, norflurazon, oleic acid (fatty acids), orbencarb, orthosulfamuron, oryzalin, oxadiargyl, oxadiazon, oxasulfuron, oxaziclomefone, oxyfluorfen, paraquat, paraquat dichloride, pebulate, pendimethalin, penoxsulam, pentachlorophenol, pentanochlor, pentoxazone, pethoxamid, petrolium oils, phenmedipham, phenmedipham-ethyl, picloram, picolinafen, pinoxaden, piperophos, potassium arsenite, potassium azide, pretilachlor, primisulfuron, primisulfuron-methyl, prodiamine, profluazol, profoxydim, prometon, prometryn, propachlor, propanil, propaquizafop, propazine, propham, propisochlor, propoxycarbazone, propoxycarbazone-sodium, propyzamide, prosulfocarb, prosulfuron, pyraclonil, pyraflufen, pyraflufen-ethyl, pyrazolynate, pyrazosulfuron, pyrazosulfuron-ethyl, pyrazoxyfen, pyribenzoxim, pyributicarb, pyridafol, pyridate, pyriftalid, pyriminobac, pyriminobac-methyl, pyrimisulfan, pyrithiobac, pyrithiobac-sodium, quinclorac, quinmerac, quinoclamine, quizalofop, quizalofop-P,

rimsulfuron, sethoxydim, siduron, simazine, simetryn, SMA, sodium arsenite, sodium azide, sodium chlorate, sulcotrione, sulfentrazone, sulfometuron, sulfometuron-methyl, sulfosate, sulfosulfuron, sulfuric acid, tar oils, 2,3,6-TBA, TCA, TCA-sodium, tebuthiuron, tepraloxydim, terbacil, terbumeton, terbuthylazine, terbutryn, thenylchlor, thiazopyr, thifensulfuron, thifensulfuron-methyl, thiobencarb, tiocarbazil, topramezone, tralkoxydim, tri-allate, triasulfuron, triaziflam, tribenuron, tribenuron-methyl, tricamba, triclopyr, trietazine, trifloxysulfuron, trifloxysulfuron-sodium, trifluralin, triflusulfuron, triflusulfuron-methyl, trihydroxytriazine, tritosulfuron, [3-[2-chloro-4-fluoro-5-(-methyl-6-trifluoromethyl-2,4-dioxo-,2,3,4-t- etrahydropyrimidin-3-yl)phenoxy]-2-pyridyloxy]acetic acid ethyl ester (CAS RN 353292-3-6), 4-[(4,5-dihydro-3-methoxy-4-methyl-5-oxo)-H-,2,4-triazol--ylcarbonyl-sulfamoyl]-5-methylthiophene-3-carboxylic acid (BAY636), BAY747 (CAS RN 33504-84-2), topramezone (CAS RN 2063-68-8), 4-hydroxy-3-[[2-[(2-methoxyethoxy)methyl]-6-(trifluoro-methyl)-3-pyridi- nyl]carbonyl]-bicyclo[3.2.]oct-3-en-2-one (CAS RN 35200-68-5), and 4-hydroxy-3-[[2-(3-methoxypropyl)-6-(difluoromethyl)-3-pyridinyl]carbon- yl]-bicyclo[3.2.]oct-3-en-2-one. Additionally, including herbicidal compounds of unspecified modes of action as described in CN101279950A, CN101279951A, DE10000600A1, DE10116399A1, DE102004054666A1, DE102005014638A1, DE102005014906A1, DE102007012168A1, DE102010042866A1, DE10204951A1, DE10234875A1, DE10234876A1, DE10256353A1, DE10256354A1, DE10256367A1, EP1157991A2, EP1238586A1, EP2147919A1, EP2160098A2, JP03968012B2, JP2001253874A, JP2002080454A, JP2002138075A, JP2002145707A, JP2002220389A, JP2003064059A, JP2003096059A, JP2004051628A, JP2004107228A, JP2005008583A, JP2005239675A, JP2005314407A, JP2006232824A, JP2006282552A, JP2007153847A, JP2007161701A, JP2007182404A, JP2008074840A, JP2008074841A, JP2008133207A, JP2008133218A, JP2008169121A, JP2009067739A, JP2009114128A, JP2009126792A, JP2009137851A, US20060111241A1, US20090036311A1, US20090054240A1, US20090215628A1, US20100099561A1, US20100152443A1, US20110105329A1, US20110201501A1, WO2001055066A2, WO2001056975A1, WO2001056979A1, WO2001090071A2, WO2001090080A1, WO2002002540A1 , WO2002028182A1, WO2002040473A1, WO2002044173A2, WO2003000679A2, WO2003006422A1 , WO2003013247A1, WO2003016308A1, WO2003020704A1, WO2003022051A1, WO2003022831A1, WO2003022843A1, WO2003029243A2,

WO2003037085A1, WO2003037878A1, WO2003045878A2, WO2003050087A2, WO2003051823A1, WO2003051824A1, WO2003051846A2, WO2003076409A1, WO2003087067A1, WO2003090539A1, WO2003091217A1, WO2003093269A2, WO2003104206A2, WO2004002947A1, WO2004002981A2, WO2004011429A1, WO2004029060A1, WO2004035545A2, WO2004035563A1, WO2004035564A1, WO2004037787A1, WO2004067518A1, WO2004067527A1, WO2004077950A1, WO2005000824A1, WO2005007627A1, WO2005040152A1, WO2005047233A1, WO2005047281A1, WO2005061443A2, WO2005061464A1, WO2005068434A1, WO2005070889A1, WO2005089551A1, WO2005095335A1, WO2006006569A1, WO2006024820A1, WO2006029828A1, WO2006029829A1, WO2006037945A1, WO2006050803A1, WO2006090792A1, WO2006123088A2, WO2006125687A1, WO2006125688A1, WO2007003294A1, WO2007026834A1, WO2007071900A1, WO2007077201A1, WO2007077247A1, WO2007096576A1, WO2007119434A1, WO2007134984A1, WO2008009908A1, WO2008029084A1, WO2008059948A1, WO2008071918A1, WO2008074991A1, WO2008084073A1, WO2008100426A2, WO2008102908A1, WO2008152072A2, WO2008152073A2, WO2009000757A1, WO2009005297A2, WO2009035150A2, WO2009063180A1, WO2009068170A2, WO2009068171A2, WO2009086041A1, WO2009090401A2, WO2009090402A2, WO2009115788A1, WO2009116558A1, WO2009152995A1, WO2009158258A1, WO2010012649A1, WO2010012649A1, WO2010026989A1, WO2010034153A1, WO2010049270A1, WO2010049369A1, WO2010049405A1, WO2010049414A1, WO2010063422A1, WO2010069802A1, WO2010078906A2, WO2010078912A1, WO2010104217A1, WO2010108611A1, WO2010112826A3, WO2010116122A3, WO2010119906A1, WO2010130970A1, WO2011003776A2, WO2011035874A1, WO2011065451A1, all of which are incorporated herein by reference.

An agronomic field in need of plant control is treated by application of the composition directly to the surface of the growing plants, such as by a spray. For example, the method is applied to control weeds in a field of crop plants by spraying the field with the composition.. The composition can be provided as a tank mix, a sequential treatment of components (generally the polynucleotide containing composition followed by the herbicide), or a simultaneous treatment or mixing of one or more of the components of the composition from separate

containers. Treatment of the field can occur as often as needed to provide weed control and the components of the composition can be adjusted to target specific weed species or weed families through utilization of specific polynucleotides or polynucleotide compositions capable of selectively targeting the specific species or plant family to be controlled. The composition can be applied at effective use rates according to the time of application to the field, for example, preplant, at planting, post planting, post harvest. PPG oxidase inhibitor herbicides can be applied to a field at rates of 100 to 500 g ai/ha (active ingredient per hectare) or more. The polynucleotides of the composition can be applied at rates of 1 to 30 grams per acre depending on the number of trigger molecules needed for the scope of weeds in the field.

Crop plants in which weed control is needed include but are not limited to, i) corn, soybean, cotton, canola, sugar beet, alfalfa, sugarcane, rice, and wheat; ii) vegetable plants including, but not limited to, tomato, sweet pepper, hot pepper, melon, watermelon, cucumber, eggplant, cauliflower, broccoli, lettuce, spinach, onion, peas, carrots, sweet corn, Chinese cabbage, leek, fennel, pumpkin, squash or gourd, radish, Brussels sprouts, tomatillo, garden beans, dry beans, or okra; iii) culinary plants including, but not limited to, basil, parsley, coffee, or tea; or , iv) fruit plants including but not limited to apple, pear, cherry, peach, plum, apricot, banana, plantain, table grape, wine grape, citrus, avocado, mango, or berry; v) a tree grown for ornamental or commercial use, including, but not limited to, a fruit or nut tree; or, vi) an ornamental plant (e. g., an ornamental flowering plant or shrub or turf grass). The methods and compositions provided herein can also be applied to plants produced by a cutting, cloning, or grafting process (i. e., a plant not grown from a seed) include fruit trees and plants that include, but are not limited to, citrus, apples, avocados, tomatoes, eggplant, cucumber, melons, watermelons, and grapes as well as various ornamental plants.

Pesticidal Mixtures

The polynucleotide compositions may also be used as mixtures with various agricultural chemicals and/or insecticides, miticides and fungicides, pesticidal and biopesticidal agents. Examples include but are not limited to azinphos-methyl, acephate, isoxathion, isofenphos, ethion, etrimfos, oxydemeton-methyl, oxydeprofos, quinalphos, chlorpyrifos, chlorpyrifos-methyl, chlorfenvinphos, cyanophos, dioxabenzofos, dichlorvos, disulfoton, dimethylvinphos, dimethoate, sulprofos, diazinon, thiometon, tetrachlorvinphos, temephos, tebupirimfos, terbufos,

naled, vamidothion, pyraclofos, pyridafenthion, pirimiphos-methyl, fenitrothion, fenthion, phenthoate, flupyrazophos, prothiofos, propaphos, profenofos, phoxime, phosalone, phosmet, formothion, phorate, malathion, mecarbam, mesulfenfos, methamidophos, methidathion, parathion, methyl parathion, monocrotophos, trichlorphon, EPN, isazophos, isamidofos, cadusafos, diamidaphos, dichlofenthion, thionazin, fenamiphos, fosthiazate, fosthietan, phosphocarb, DSP, ethoprophos, alanycarb, aldicarb, isoprocarb, ethiofencarb, carbaryl, carbosulfan, xylylcarb, thiodicarb, pirimicarb, fenobucarb, furathiocarb, propoxur, bendiocarb, benfuracarb, methomyl, metolcarb, XMC, carbofuran, aldoxycarb, oxamyl, acrinathrin, allethrin, esfenvalerate, empenthrin, cycloprothrin, cyhalothrin, gamma-cyhalothrin, lambda-cyhalothrin, cyfluthrin, beta-cyfluthrin, cypermethrin, alpha-cypermethrin, zeta-cypermethrin, silafluofen, tetramethrin, tefluthrin, deltamethrin, tralomethrin, bifenthrin, phenothrin, fenvalerate, fenpropathrin, furamethrin, prallethrin, flucythrinate, fluvalinate, flubrocythrinate, permethrin, resmethrin, ethofenprox, cartap, thiocyclam, bensultap, acetamiprid, imidacloprid, clothianidin, dinotefuran, thiacloprid, thiamethoxam, nitenpyram, chlorfluazuron, diflubenzuron, teflubenzuron, triflumuron, novaluron, noviflumuron, bistrifluoron, fluazuron, flucycloxuron, flufenoxuron, hexaflumuron, lufenuron, chromafenozide, tebufenozide, halofenozide, methoxyfenozide, diofenolan, cyromazine, pyriproxyfen, buprofezin, methoprene, hydroprene, kinoprene, triazamate, endosulfan, chlorfenson, chlorobenzilate, dicofol, bromopropylate, acetoprole, fipronil, ethiprole, pyrethrin, rotenone, nicotine sulphate, BT (Bacillus Thuringiensis) agent, spinosad, abamectin, acequinocyl, amidoflumet, amitraz, etoxazole, chinomethionat, clofentezine, fenbutatin oxide, dienochlor, cyhexatin, spirodiclofen, spiromesifen, tetradifon, tebufenpyrad, binapacryl, bifenazate, pyridaben, pyrimidifen, fenazaquin, fenothiocarb, fenpyroximate, fluacrypyrim, fluazinam, flufenzin, hexythiazox, propargite, benzomate, polynactin complex, milbemectin, lufenuron, mecarbam, methiocarb, mevinphos, halfenprox, azadirachtin, diafenthiuron, indoxacarb, emamectin benzoate, potassium oleate, sodium oleate, chlorfenapyr, tolfenpyrad, pymetrozine, fenoxycarb, hydramethylnon, hydroxy propyl starch, pyridalyl, flufenerim, flubendiamide, flonicamid, metaflumizole, lepimectin, TPIC, albendazole, oxibendazole, oxfendazole, trichlamide, fensulfothion, fenbendazole, levamisole hydrochloride, morantel tartrate, dazomet, metam-sodium, triadimefon, hexaconazole, propiconazole, ipconazole, prochloraz, triflumizole, tebuconazole, epoxiconazole, difenoconazole, flusilazole, triadimenol, cyproconazole, metconazole, fluquinconazole, bitertanol, tetraconazole,

triticonazole, flutriafol, penconazole, diniconazole, fenbuconazole, bromuconazole, imibenconazole, simeconazole, myclobutanil, hymexazole, imazalil, furametpyr, thifluzamide, etridiazole, oxpoconazole, oxpoconazole fumarate, pefurazoate, prothioconazole, pyrifenox, fenarimol, nuarimol, bupirimate, mepanipyrim, cyprodinil, pyrimethanil, metalaxyl, mefenoxam, oxadixyl, benalaxyl, thiophanate, thiophanate-methyl, benomyl, carbendazim, fuberidazole, thiabendazole, manzeb, propineb, zineb, metiram, maneb, ziram, thiuram, chlorothalonil, ethaboxam, oxycarboxin, carboxin, flutolanil, silthiofam, mepronil, dimethomorph, fenpropidin, fenpropimorph, spiroxamine, tridemorph, dodemorph, flumorph, azoxystrobin, kresoxim-methyl, metominostrobin, orysastrobin, fluoxastrobin, trifloxystrobin, dimoxystrobin, pyraclostrobin, picoxystrobin, iprodione, procymidone, vinclozolin, chlozolinate, flusulfamide, dazomet, methyl isothiocyanate, chloropicrin, methasulfocarb, hydroxyisoxazole, potassium hydroxyisoxazole, echlomezol, D-D, carbam, basic copper chloride, basic copper sulfate, copper nonylphenolsulfonate, oxine copper, DBEDC, anhydrous copper sulfate, copper sulfate pentahydrate, cupric hydroxide, inorganic sulfur, wettable sulfur, lime sulfur, zinc sulfate, fentin, sodium hydrogen carbonate, potassium hydrogen carbonate, sodium hypochlorite, silver, edifenphos, tolclofos-methyl, fosetyl, iprobenfos, dinocap, pyrazophos, carpropamid, fthalide, tricyclazole, pyroquilon, diclocymet, fenoxanil, kasugamycin, validamycin, polyoxins, blasticiden S, oxytetracycline, mildiomycin, streptomycin, rape seed oil, machine oil, benthiavalicarbisopropyl, iprovalicarb, propamocarb, diethofencarb, fluoroimide, fludioxanil, fenpiclonil, quinoxyfen, oxolinic acid, chlorothalonil, captan, folpet, probenazole, acibenzolar-S-methyl, tiadinil, cyflufenamid, fenhexamid, diflumetorim, metrafenone, picobenzamide, proquinazid, famoxadone, cyazofamid, fenamidone, zoxamide, boscalid, cymoxanil, dithianon, fluazinam, dichlofluanide, triforine, isoprothiolane, ferimzone, diclomezine, tecloftalam, pencycuron, chinomethionat, iminoctadine acetate, iminoctadine albesilate, ambam, polycarbamate, thiadiazine, chloroneb, nickel dimethyldithiocarbamate, guazatine, dodecylguanidine-acetate, quintozene, tolylfluanid, anilazine, nitrothalisopropyl, fenitropan, dimethirimol, benthiazole, harpin protein, flumetover, mandipropamide and penthiopyrad.

Polynucleotides

As used herein, the term “DNA”, “DNA molecule”, “DNA polynucleotide molecule” refers to a single-stranded DNA (ssDNA) or double-stranded DNA (dsDNA) molecule of

genomic or synthetic origin, such as, a polymer of deoxyribonucleotide bases or a DNA polynucleotide molecule. As used herein, the term "DNA sequence", "DNA nucleotide sequence" or "DNA polynucleotide sequence" refers to the nucleotide sequence of a DNA molecule. As used herein, the term "RNA", "RNA molecule", "RNA polynucleotide molecule" refers to a single-stranded RNA (ssRNA) or double-stranded RNA (dsRNA) molecule of genomic or synthetic origin, such as, a polymer of ribonucleotide bases that comprise single or double stranded regions. Unless otherwise stated, nucleotide sequences in the text of this specification are given, when read from left to right, in the 5' to 3' direction. The nomenclature used herein is that required by Title 37 of the United States Code of Federal Regulations § 1.822 and set forth in the tables in WIPO Standard ST.25 (1998), Appendix 2, Tables 1 and 3.

As used herein, "polynucleotide" refers to a DNA or RNA molecule containing multiple nucleotides and generally refers both to "oligonucleotides" (a polynucleotide molecule of typically 50 or fewer nucleotides in length) and polynucleotides of 51 or more nucleotides. Embodiments include compositions including oligonucleotides having a length of 18-25 nucleotides (18-mers, 19-mers, 20-mers, 21-mers, 22-mers, 23-mers, 24-mers, or 25-mers), for example, oligonucleotides of Table 3 (SEQ ID NO:1382-2221) or fragments thereof or medium-length polynucleotides having a length of 26 or more nucleotides (polynucleotides of 26, 27, 28, 29, 30, 46, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, about 65, about 70, about 75, about 80, about 85, about 90, about 95, about 100, about 110, about 120, about 130, about 140, about 150, about 160, about 170, about 180, about 190, about 200, about 210, about 220, about 230, about 240, about 250, about 260, about 270, about 280, about 290, or about 300 nucleotides), for example, oligonucleotides of Table 2 (SEQ ID NO:72-1381) or fragments thereof or long polynucleotides having a length greater than about 300 nucleotides (for example, polynucleotides of between about 300 to about 400 nucleotides, between about 400 to about 500 nucleotides, between about 500 to about 600 nucleotides, between about 600 to about 700 nucleotides, between about 700 to about 800 nucleotides, between about 800 to about 900 nucleotides, between about 900 to about 1000 nucleotides, between about 300 to about 500 nucleotides, between about 300 to about 600 nucleotides, between about 300 to about 700 nucleotides, between about 300 to about 800 nucleotides, between about 300 to about 900 nucleotides, or about 1000 nucleotides in length, or even greater than about 1000 nucleotides in length, for example up to the entire length of a target

gene including coding or non-coding or both coding and non-coding portions of the target gene), for example, polynucleotides of Table 1 (SEQ ID NO:1-71), wherein the selected polynucleotides or fragments thereof homologous or complementary to SEQ ID NO:1-71 suppresses, represses or otherwise delay the expression of the target PPG oxidase gene. A target gene comprises any polynucleotide molecule in a plant cell or fragment thereof for which the modulation of the expression of the target gene is provided by the methods and compositions. Where a polynucleotide is double-stranded, its length can be similarly described in terms of base pairs. Oligonucleotides and polynucleotides can be made that are essentially identical or essentially complementary to adjacent genetic elements of a gene, for example, spanning the junction region of an intron and exon, the junction region of a promoter and a transcribed region, the junction region of a 5' leader and a coding sequence, the junction of a 3' untranslated region and a coding sequence.

Polynucleotide compositions used in the various embodiments include compositions including oligonucleotides or polynucleotides or a mixture of both, including RNA or DNA or RNA/DNA hybrids or chemically modified oligonucleotides or polynucleotides or a mixture thereof. In some embodiments, the polynucleotide may be a combination of ribonucleotides and deoxyribonucleotides, for example, synthetic polynucleotides consisting mainly of ribonucleotides but with one or more terminal deoxyribonucleotides or synthetic polynucleotides consisting mainly of deoxyribonucleotides but with one or more terminal dideoxyribonucleotides. In some embodiments, the polynucleotide includes non-canonical nucleotides such as inosine, thiouridine, or pseudouridine. In some embodiments, the polynucleotide includes chemically modified nucleotides. Examples of chemically modified oligonucleotides or polynucleotides are well known in the art; see, for example, US Patent Publication 20110171287, US Patent Publication 20110171176, and US Patent Publication 20110152353, US Patent Publication, 20110152346, US Patent Publication 20110160082, herein incorporated by reference. For example, including but not limited to the naturally occurring phosphodiester backbone of an oligonucleotide or polynucleotide can be partially or completely modified with phosphorothioate, phosphorodithioate, or methylphosphonate internucleotide linkage modifications, modified nucleoside bases or modified sugars can be used in oligonucleotide or polynucleotide synthesis, and oligonucleotides or polynucleotides can be

labeled with a fluorescent moiety (for example, fluorescein or rhodamine) or other label (for example, biotin).

The polynucleotides can be single- or double-stranded RNA or single- or double-stranded DNA or double-stranded DNA/RNA hybrids or modified analogues thereof, and can be of oligonucleotide lengths or longer. In more specific embodiments the polynucleotides that provide single-stranded RNA in the plant cell are selected from the group consisting of (a) a single-stranded RNA molecule (ssRNA), (b) a single-stranded RNA molecule that self-hybridizes to form a double-stranded RNA molecule, (c) a double-stranded RNA molecule (dsRNA), (d) a single-stranded DNA molecule (ssDNA), (e) a single-stranded DNA molecule that self-hybridizes to form a double-stranded DNA molecule, and (f) a single-stranded DNA molecule including a modified Pol III gene that is transcribed to an RNA molecule, (g) a double-stranded DNA molecule (dsDNA), (h) a double-stranded DNA molecule including a modified Pol III gene that is transcribed to an RNA molecule, (i) a double-stranded, hybridized RNA/DNA molecule, or combinations thereof. In some embodiments these polynucleotides include chemically modified nucleotides or non-canonical nucleotides. In some embodiments, the oligonucleotides may be blunt-ended or may comprise a 3' overhang of from 1-5 nucleotides of at least one or both of the strands. Other configurations of the oligonucleotide are known in the field and are contemplated herein. In embodiments of the method the polynucleotides include double-stranded DNA formed by intramolecular hybridization, double-stranded DNA formed by intermolecular hybridization, double-stranded RNA formed by intramolecular hybridization, or double-stranded RNA formed by intermolecular hybridization. In one embodiment the polynucleotides include single-stranded DNA or single-stranded RNA that self-hybridizes to form a hairpin structure having an at least partially double-stranded structure including at least one segment that will hybridize to RNA transcribed from the gene targeted for suppression. Not intending to be bound by any mechanism, it is believed that such polynucleotides are or will produce single-stranded RNA with at least one segment that will hybridize to RNA transcribed from the gene targeted for suppression. In certain other embodiments the polynucleotides further includes a promoter, generally a promoter functional in a plant, for example, a pol II promoter, a pol III promoter, a pol IV promoter, or a pol V promoter.

The term "gene" refers to components that comprise chromosomal DNA, plasmid DNA, cDNA, intron and exon DNA, artificial DNA polynucleotide, or other DNA that encodes a

peptide, polypeptide, protein, or RNA transcript molecule, and the genetic elements flanking the coding sequence that are involved in the regulation of expression, such as, promoter regions, 5' leader regions, 3' untranslated region that may exist as native genes or transgenes in a plant genome. The gene or a fragment thereof is isolated and subjected to polynucleotide sequencing methods that determines the order of the nucleotides that comprise the gene. Any of the components of the gene are potential targets for a trigger oligonucleotide and polynucleotides.

The trigger polynucleotide molecules are designed to modulate expression by inducing regulation or suppression of an endogenous PPG oxidase gene in a plant and are designed to have a nucleotide sequence essentially identical or essentially complementary to the nucleotide sequence of an endogenous PPG oxidase gene of a plant or to the sequence of RNA transcribed from an endogenous PPG oxidase gene of a plant, including a transgene in a plant that provides for a herbicide resistant PPG oxidase enzyme, which can be coding sequence or non-coding sequence. Effective molecules that modulate expression are referred to as "a trigger molecule, or trigger polynucleotides". By "essentially identical" or "essentially complementary" is meant that the trigger polynucleotides (or at least one strand of a double-stranded polynucleotide or portion thereof, or a portion of a single strand polynucleotide) are designed to hybridize to the endogenous gene noncoding sequence or to RNA transcribed (known as messenger RNA or an RNA transcript) from the endogenous gene to effect regulation or suppression of expression of the endogenous gene. Trigger molecules are identified by "tiling" the gene targets with partially overlapping probes or non-overlapping probes of antisense or sense polynucleotides that are essentially identical or essentially complementary to the nucleotide sequence of an endogenous gene. Multiple target sequences can be aligned and sequence regions with homology in common, according to the methods, are identified as potential trigger molecules for the multiple targets. Multiple trigger molecules of various lengths, for example 18-25 nucleotides, 26-50 nucleotides, 51-100 nucleotides, 101-200 nucleotides, 201-300 nucleotides or more can be pooled into a few treatments in order to investigate polynucleotide molecules that cover a portion of a gene sequence (for example, a portion of a coding versus a portion of a noncoding region, or a 5' versus a 3' portion of a gene) or an entire gene sequence including coding and noncoding regions of a target gene. Polynucleotide molecules of the pooled trigger molecules can be divided into smaller pools or single molecules inorder to identify trigger molecules that provide the desired effect.

The target gene RNA and DNA polynucleotide molecules (Table 1, SEQ ID NO:1-71) are sequenced by any number of available methods and equipment. Some of the sequencing technologies are available commercially, such as the sequencing-by-hybridization platform from Affymetrix Inc. (Sunnyvale, Calif.) and the sequencing-by-synthesis platforms from 454 Life Sciences (Bradford, Conn.), Illumina/Solexa (Hayward, Calif.) and Helicos Biosciences (Cambridge, Mass.), and the sequencing-by-ligation platform from Applied Biosystems (Foster City, Calif.), as described below. In addition to the single molecule sequencing performed using sequencing-by-synthesis of Helicos Biosciences, other single molecule sequencing technologies are encompassed by the method and include the SMRT™.. technology of Pacific Biosciences, the Ion Torrent™ technology, and nanopore sequencing being developed for example, by Oxford Nanopore Technologies. A PPG oxidase target gene comprising DNA or RNA can be isolated using primers or probes essentially complementary or essentially homologous to SEQ ID NO:1-71 or a fragment thereof. A polymerase chain reaction (PCR) gene fragment can be produced using primers essentially complementary or essentially homologous to SEQ ID NO:1-71 or a fragment thereof that is useful to isolate a PPG oxidase gene from a plant genome. SEQ ID NO: 1-71 or fragments thereof can be used in various sequence capture technologies to isolate additional target gene sequences, for example, including but not limited to Roche NimbleGen® (Madison, WI) and Streptavdin-coupled Dynabeads® (Life Technologies, Grand Island, NY) and US20110015284, herein incorporated by reference in its entirety.

Embodiments of functional single-stranded polynucleotides have sequence complementarity that need not be 100 percent, but is at least sufficient to permit hybridization to RNA transcribed from the target gene or DNA of the target gene to form a duplex to permit a gene silencing mechanism. Thus, in embodiments, a polynucleotide fragment is designed to be essentially identical to, or essentially complementary to, a sequence of 18 or more contiguous nucleotides in either the target PPG oxidase gene sequence or messenger RNA transcribed from the target gene. By "essentially identical" is meant having 100 percent sequence identity or at least about 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, or 99 percent sequence identity when compared to the sequence of 18 or more contiguous nucleotides in either the target gene or RNA transcribed from the target gene; by "essentially complementary" is meant having 100 percent sequence complementarity or at least about 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, or 99 percent sequence complementarity when compared to the sequence of

18 or more contiguous nucleotides in either the target gene or RNA transcribed from the target gene. In some embodiments, polynucleotide molecules are designed to have 100 percent sequence identity with or complementarity to one allele or one family member of a given target gene (coding or non-coding sequence of a gene); in other embodiments the polynucleotide molecules are designed to have 100 percent sequence identity with or complementarity to multiple alleles or family members of a given target gene. The trigger polynucleotide sequences in the sequence listing SEQ ID NO: 1-2221 or table 1, 2 or 3 maybe complementary or homologous to a portion of the PPG oxidase target gene sequence.

In certain embodiments, the polynucleotides used in the compositions that are essentially identical or essentially complementary to the target gene or transcript will comprise the predominant nucleic acid in the composition. Thus in certain embodiments, the polynucleotides that are essentially identical or essentially complementary to the target gene or transcript will comprise at least about 50%, 75%, 95%, 98% or 100% of the nucleic acids provided in the composition by either mass or molar concentration. However, in certain embodiments, the polynucleotides that are essentially identical or essentially complementary to the target gene or transcript can comprise at least about 1% to about 50%, about 10% to about 50%, about 20% to about 50%, or about 30% to about 50% of the nucleic acids provided in the composition by either mass or molar concentration. Also provided are compositions where the polynucleotides that are essentially identical or essentially complementary to the target gene or transcript can comprise at least about 1% to 100%, about 10% to 100%, about 20% to about 100%, about 30% to about 50%, or about 50% to a 100% of the nucleic acids provided in the composition by either mass or molar concentration.

"Identity" refers to the degree of similarity between two polynucleic acid or protein sequences. An alignment of the two sequences is performed by a suitable computer program. A widely used and accepted computer program for performing sequence alignments is CLUSTALW v1.6 (Thompson, et al. Nucl. Acids Res., 22: 4673-4680, 1994). The number of matching bases or amino acids is divided by the total number of bases or amino acids, and multiplied by 100 to obtain a percent identity. For example, if two 580 base pair sequences had 145 matched bases, they would be 25 percent identical. If the two compared sequences are of different lengths, the number of matches is divided by the shorter of the two lengths. For example, if there are 100 matched amino acids between a 200 and a 400 amino acid protein, they

are 50 percent identical with respect to the shorter sequence. If the shorter sequence is less than 150 bases or 50 amino acids in length, the number of matches are divided by 150 (for nucleic acid bases) or 50 (for amino acids), and multiplied by 100 to obtain a percent identity.

Trigger molecules for specific gene family members can be identified from coding and/or non-coding sequences of gene families of a plant or multiple plants, by aligning and selecting 200-300 polynucleotide fragments from the least homologous regions amongst the aligned sequences and evaluated using topically applied polynucleotides (as sense or anti-sense ssDNA or ssRNA, dsRNA, or dsDNA) to determine their relative effectiveness in inducing the herbicidal phenotype. The effective segments are further subdivided into 50-60 polynucleotide fragments, prioritized by least homology, and reevaluated using topically applied polynucleotides. The effective 50-60 polynucleotide fragments are subdivided into 19-30 polynucleotide fragments, prioritized by least homology, and again evaluated for induction of the yield/quality phenotype. Once relative effectiveness is determined, the fragments are utilized singly, or again evaluated in combination with one or more other fragments to determine the trigger composition or mixture of trigger polynucleotides for providing the yield/quality phenotype.

Trigger molecules for broad activity can be identified from coding and/or non-coding sequences of gene families of a plant or multiple plants, by aligning and selecting 200-300 polynucleotide fragments from the most homologous regions amongst the aligned sequences and evaluated using topically applied polynucleotides (as sense or anti-sense ssDNA or ssRNA, dsRNA, or dsDNA) to determine their relative effectiveness in inducing the yield/quality phenotype. The effective segments are subdivided into 50-60 polynucleotide fragments, prioritized by most homology, and reevaluated using topically applied polynucleotides. The effective 50-60 polynucleotide fragments are subdivided into 19-30 polynucleotide fragments, prioritized by most homology, and again evaluated for induction of the yield/quality phenotype. Once relative effectiveness is determined, the fragments may be utilized singly, or in combination with one or more other fragments to determine the trigger composition or mixture of trigger polynucleotides for providing the yield/quality phenotype.

Methods of making polynucleotides are well known in the art. Chemical synthesis, in vivo synthesis and in vitro synthesis methods and compositions are known in the art and include various viral elements, microbial cells, modified polymerases, and modified nucleotides.

Commercial preparation of oligonucleotides often provides two deoxyribonucleotides on the 3' end of the sense strand. Long polynucleotide molecules can be synthesized from commercially available kits, for example, kits from Applied Biosystems/Ambion (Austin, TX) have DNA ligated on the 5' end in a microbial expression cassette that includes a bacterial T7 polymerase promoter that makes RNA strands that can be assembled into a dsRNA and kits provided by various manufacturers that include T7 RiboMax Express (Promega, Madison, WI), AmpliScribe T7-Flash (Epicentre, Madison, WI), and TranscriptAid T7 High Yield (Fermentas, Glen Burnie, MD). dsRNA molecules can be produced from microbial expression cassettes in bacterial cells (Ongvarrasopone et al. ScienceAsia 33:35-39; Yin, Appl. Microbiol. Biotechnol 84:323-333, 2009; Liu et al., BMC Biotechnology 10:85, 2010) that have regulated or deficient RNase III enzyme activity or the use of various viral vectors to produce sufficient quantities of dsRNA. PPG oxidase gene fragments are inserted into the microbial expression cassettes in a position in which the fragments are express to produce ssRNA or dsRNA useful in the methods described herein to regulate expression on a target PPG oxidase gene. Long polynucleotide molecules can also be assembled from multiple RNA or DNA fragments. In some embodiments design parameters such as Reynolds score (Reynolds et al. Nature Biotechnology 22, 326 - 330 (2004),Tuschl rules (Pei and Tuschl, Nature Methods 3(9): 670-676, 2006), i-score (Nucleic Acids Res 35: e123, 2007), i-Score Designer tool and associated algorithms (Nucleic Acids Res 32: 936-948, 2004. Biochem Biophys Res Commun 316: 1050-1058, 2004, Nucleic Acids Res 32: 893-901, 2004, Cell Cycle 3: 790-5, 2004, Nat Biotechnol 23: 995-1001, 2005, Nucleic Acids Res 35: e27, 2007, BMC Bioinformatics 7: 520, 2006, Nucleic Acids Res 35: e123, 2007, Nat Biotechnol 22: 326-330, 2004) are known in the art and may be used in selecting polynucleotide sequences effective in gene silencing. In some embodiments the sequence of a polynucleotide is screened against the genomic DNA of the intended plant to minimize unintentional silencing of other genes.

The trigger polynucleotide and oligonucleotide molecule compositions are useful in compositions, such as liquids that comprise these polynucleotide molecules, at low concentrations, alone or in combination with other components, for example one or more herbicide molecules, either in the same solution or in separately applied liquids that also provide a transfer agent. While there is no upper limit on the concentrations and dosages of polynucleotide molecules that can useful in the methods, lower effective concentrations and

dosages will generally be sought for efficiency. The concentrations can be adjusted in consideration of the volume of spray or treatment applied to plant leaves or other plant part surfaces, such as flower petals, stems, tubers, fruit, anthers, pollen, or seed. In one embodiment, a useful treatment for herbaceous plants using 25-mer oligonucleotide molecules is about 1 nanomole (nmol) of oligonucleotide molecules per plant, for example, from about 0.05 to 1 nmol per plant. Other embodiments for herbaceous plants include useful ranges of about 0.05 to about 100 nmol , or about 0.1 to about 20 nmol, or about 1 nmol to about 10 nmol of polynucleotides per plant. Very large plants, trees, or vines may require correspondingly larger amounts of polynucleotides. When using long dsRNA molecules that can be processed into multiple oligonucleotides, lower concentrations can be used. To illustrate certain embodiments, the factor 1X, when applied to oligonucleotide molecules is arbitrarily used to denote a treatment of 0.8 nmol of polynucleotide molecule per plant; 10X, 8 nmol of polynucleotide molecule per plant; and 100X, 80 nmol of polynucleotide molecule per plant.

The polynucleotide compositions are useful in compositions, such as liquids that comprise polynucleotide molecules, alone or in combination with other components either in the same liquid or in separately applied liquids that provide a transfer agent. As used herein, a transfer agent is an agent that, when combined with a polynucleotide in a composition that is topically applied to a target plant surface, enables the polynucleotide to enter a plant cell. In certain embodiments, a transfer agent is an agent that conditions the surface of plant tissue, e. g., leaves, stems, roots, flowers, or fruits, to permeation by the polynucleotide molecules into plant cells. The transfer of polynucleotides into plant cells can be facilitated by the prior or contemporaneous application of a polynucleotide-transferring agent to the plant tissue. In some embodiments the transferring agent is applied subsequent to the application of the polynucleotide composition. The polynucleotide transfer agent enables a pathway for polynucleotides through cuticle wax barriers, stomata and/or cell wall or membrane barriers into plant cells. Suitable transfer agents to facilitate transfer of the polynucleotide into a plant cell include agents that increase permeability of the exterior of the plant or that increase permeability of plant cells to oligonucleotides or polynucleotides. Such agents to facilitate transfer of the composition into a plant cell include a chemical agent, or a physical agent, or combinations thereof. Chemical agents for conditioning or transfer include (a) surfactants, (b) an organic solvent or an aqueous solution or aqueous mixtures of organic solvents, (c) oxidizing agents, (d) acids, (e) bases, (f)

oils, (g) enzymes, or combinations thereof. Embodiments of the method can optionally include an incubation step, a neutralization step (e.g., to neutralize an acid, base, or oxidizing agent, or to inactivate an enzyme), a rinsing step, or combinations thereof. Embodiments of agents or treatments for conditioning of a plant to permeation by polynucleotides include emulsions, reverse emulsions, liposomes, and other micellar-like compositions. Embodiments of agents or treatments for conditioning of a plant to permeation by polynucleotides include counter-ions or other molecules that are known to associate with nucleic acid molecules, *e. g.*, inorganic ammonium ions, alkyl ammonium ions, lithium ions, polyamines such as spermine, spermidine, or putrescine, and other cations. Organic solvents useful in conditioning a plant to permeation by polynucleotides include DMSO, DMF, pyridine, *N*-pyrrolidine, hexamethylphosphoramide, acetonitrile, dioxane, polypropylene glycol, other solvents miscible with water or that will dissolve phosphonucleotides in non-aqueous systems (such as is used in synthetic reactions). Naturally derived or synthetic oils with or without surfactants or emulsifiers can be used, *e. g.*, plant-sourced oils, crop oils (such as those listed in the 9th Compendium of Herbicide Adjuvants, publicly available on the worldwide web (internet) at herbicide.adjuvants.com can be used, *e. g.*, paraffinic oils, polyol fatty acid esters, or oils with short-chain molecules modified with amides or polyamines such as polyethyleneimine or *N*-pyrrolidine. Transfer agents include, but are not limited to, organosilicone preparations.

Ligands can be tethered to a polynucleotide, for example a dsRNA, ssRNA, dsDNA or ssDNA. Ligands in general can include modifiers, e.g., for enhancing uptake; diagnostic compounds or reporter groups e.g., for monitoring distribution; cross-linking agents; nuclease-resistance conferring moieties; and natural or unusual nucleobases. General examples include lipophiles, lipids (e.g., cholesterol, a bile acid, or a fatty acid (e.g., lithocholic-oleyl, lauroyl, docosnyl, stearoyl, palmitoyl, myristoyl oleoyl, linoleoyl), steroids (e.g., uvaol, hecigenin, diosgenin), terpenes (e.g., triterpenes, e.g., sarsasapogenin, Friedelin, epifriedelanol derivatized lithocholic acid), vitamins (e.g., folic acid, vitamin A, biotin, pyridoxal), carbohydrates, proteins, protein binding agents, integrin targeting molecules, polycationics, peptides, polyamines, and peptide mimics. The ligand may also be a recombinant or synthetic molecule, such as a synthetic polymer, e.g., polyethylene glycol (PEG), PEG-40K, PEG-20K and PEG-5K. Other examples of ligands include lipophilic molecules, e.g, cholesterol, cholic acid, adamantane acetic acid, 1-pyrene butyric acid, dihydrotestosterone, glycerol (e.g., esters and ethers thereof, e.g., C.sub.10,

C.sub.11, C.sub.12, C.sub.13, C.sub.14, C.sub.15, C.sub.16, C.sub.17, C.sub.18, C.sub.19, or C.sub.20 alkyl; e.g., lauroyl, docosnyl, stearoyl, oleoyl, linoleoyl 1,3-bis-O(hexadecyl)glycerol, 1,3-bis-O(octaadecyl)glycerol), geranyloxyhexyl group, hexadecylglycerol, borneol, menthol, 1,3-propanediol, heptadecyl group, palmitic acid, myristic acid, O3-(oleoyl)lithocholic acid, O3-(oleoyl)cholenic acid, dodecanoyl, lithocholyl, 5.beta.-cholanyl, N,N-distearyl-lithocholamide, 1,2-di-O-stearoylglyceride, dimethoxytrityl, or phenoxazine) and PEG (e.g., PEG-5K, PEG-20K, PEG-40K). Preferred lipophilic moieties include lipid, cholesterols, oleyl, retinyl, or cholesteryl residues.

Conjugating a ligand to a dsRNA can enhance its cellular absorption, lipophilic compounds that have been conjugated to oligonucleotides include 1-pyrene butyric acid, 1,3-bis-O-(hexadecyl)glycerol, and menthol. One example of a ligand for receptor-mediated endocytosis is folic acid. Folic acid enters the cell by folate-receptor-radiated endocytosis. dsRNA compounds bearing folic acid would be efficiently transported into the cell via the folate-receptor-mediated endocytosis. Other ligands that have been conjugated to oligonucleotides include polyethylene glycols, carbohydrate clusters, cross-linking agents, porphyrin conjugates, delivery peptides and lipids such as cholesterol. In certain instances, conjugation of a cationic ligand to oligonucleotides results in improved resistance to nucleases. Representative examples of cationic ligands are propylammonium and dimethylpropylammonium. Interestingly, antisense oligonucleotides were reported to retain their high binding affinity to mRNA when the cationic ligand was dispersed, throughout the oligonucleotide. See M. Manoharan Antisense & Nucleic Acid Drug Development 2002, 12, 103 and references therein.

A biologic delivery can be accomplished by a variety of methods including, without limitation, (1) loading liposomes with a dsRNA acid molecule provided herein and (2) complexing a dsRNA molecule with lipids or liposomes to form nucleic acid-lipid or nucleic acid-liposome complexes. The liposome can be composed of cationic and neutral lipids commonly used to transfect cells in vitro. Cationic lipids can complex (e.g., charge-associate) with negatively charged, nucleic acids to form liposomes. Examples of cationic liposomes include, without limitation, lipofectin, lipofectamine, lipofectace, and DOTAP. Procedures for forming liposomes are well known in the art. Liposome compositions can be formed, for example, from phosphatidylcholine, dimyristoyl phosphatidylcholine, dipalmitoyl phosphatidylcholine, dimyristoyl phosphatidyl glycerol, dioleoyl phosphatidylethanolamine or

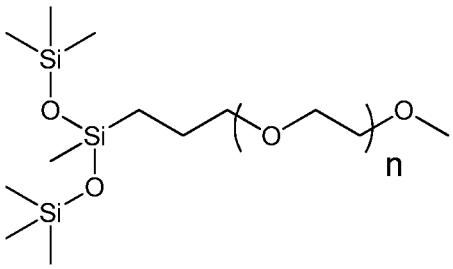
liposomes comprising dihydrosphingomyelin (DHSM) Numerous lipophilic agents are commercially available, including Lipofectin.RTM. (Invitrogen/Life Technologies, Carlsbad, Calif.) and Effectene™ (Qiagen, Valencia, Calif.), In addition, systemic delivery methods can be optimized using commercially available cationic lipids such as DDAB or DOTAP, each of which can be mixed with a neutral lipid such as DOPE or cholesterol. In some eases, liposomes such as those described by Templeton et al. Nature Biotechnology, 15:647-652 (1997) can be used. In other embodiments, polycations such as polyethyleneimine can be used to achieve delivery in vivo and ex vivo (Boletta et al., J. Am Soc. Nephrol. 7:1728, 1996). Additional information regarding the use of liposomes to deliver nucleic acids can be found in U.S. Pat. No. 6,271,359, PCT Publication WO 96/40964 and Morrissey, D. et al., 2005, Nature Biotechnol. 23(8):1002-7.

In certain embodiments, an organosilicone preparation that is commercially available as Silwet® L-77 surfactant having CAS Number 27306-78-1 and EPA Number: CAL.REG.NO. 5905-50073-AA, and currently available from Momentive Performance Materials, Albany, New York can be used to prepare a polynucleotide composition. In certain embodiments where a Silwet L-77 organosilicone preparation is used as a pre-spray treatment of plant leaves or other plant surfaces, freshly made concentrations in the range of about 0.015 to about 2 percent by weight (wt percent) (*e. g.*, about 0.01, 0.015, 0.02, 0.025, 0.03, 0.035, 0.04, 0.045, 0.05, 0.055, 0.06, 0.065, 0.07, 0.075, 0.08, 0.085, 0.09, 0.095, 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1.0, 1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 1.7, 1.8, 1.9, 2.0, 2.1, 2.2, 2.3, 2.5 wt percent) are efficacious in preparing a leaf or other plant surface for transfer of polynucleotide molecules into plant cells from a topical application on the surface. In certain embodiments of the methods and compositions provided herein, a composition that comprises a polynucleotide molecule and an organosilicone preparation comprising Silwet L-77 in the range of about 0.015 to about 2 percent by weight (wt percent) (*e. g.*, about 0.01, 0.015, 0.02, 0.025, 0.03, 0.035, 0.04, 0.045, 0.05, 0.055, 0.06, 0.065, 0.07, 0.075, 0.08, 0.085, 0.09, 0.095, 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1.0, 1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 1.7, 1.8, 1.9, 2.0, 2.1, 2.2, 2.3, 2.5 wt percent) is used or provided.

In certain embodiments, any of the commercially available organosilicone preparations provided such as the following Breakthru S 321, Breakthru S 200 Cat# 67674-67-3, Breakthru OE 441 Cat#68937-55-3, Breakthru S 278 Cat #27306-78-1, Breakthru S 243, Breakthru S 233 Cat#134180-76-0, available from manufacturer Evonik Goldschmidt (Germany), Silwet® HS 429, Silwet® HS 312, Silwet® HS 508, Silwet® HS 604 (Momentive Performance Materials,

Albany, New York) can be used as transfer agents in a polynucleotide composition. In certain embodiments where an organosilicone preparation is used as a pre-spray treatment of plant leaves or other surfaces, freshly made concentrations in the range of about 0.015 to about 2 percent by weight (wt percent) (*e. g.*, about 0.01, 0.015, 0.02, 0.025, 0.03, 0.035, 0.04, 0.045, 0.05, 0.055, 0.06, 0.065, 0.07, 0.075, 0.08, 0.085, 0.09, 0.095, 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1.0, 1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 1.7, 1.8, 1.9, 2.0, 2.1, 2.2, 2.3, 2.5 wt percent) are efficacious in preparing a leaf or other plant surface for transfer of polynucleotide molecules into plant cells from a topical application on the surface. In certain embodiments of the methods and compositions provided herein, a composition that comprises a polynucleotide molecule and an organosilicone preparation in the range of about 0.015 to about 2 percent by weight (wt percent) (*e. g.*, about 0.01, 0.015, 0.02, 0.025, 0.03, 0.035, 0.04, 0.045, 0.05, 0.055, 0.06, 0.065, 0.07, 0.075, 0.08, 0.085, 0.09, 0.095, 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1.0, 1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 1.7, 1.8, 1.9, 2.0, 2.1, 2.2, 2.3, 2.5 wt percent) is used or provided.

Organosilicone preparations used in the methods and compositions provided herein can comprise one or more effective organosilicone compounds. As used herein, the phrase "effective organosilicone compound" is used to describe any organosilicone compound that is found in an organosilicone preparation that enables a polynucleotide to enter a plant cell. In certain embodiments, an effective organosilicone compound can enable a polynucleotide to enter a plant cell in a manner permitting a polynucleotide mediated suppression of a target gene expression in the plant cell. In general, effective organosilicone compounds include, but are not limited to, compounds that can comprise: i) a trisiloxane head group that is covalently linked to, ii) an alkyl linker including, but not limited to, an n-propyl linker, that is covalently linked to, iii) a poly glycol chain, that is covalently linked to, iv) a terminal group. Trisiloxane head groups of such effective organosilicone compounds include, but are not limited to, heptamethyltrisiloxane. Alkyl linkers can include, but are not limited to, an n-propyl linker. Poly glycol chains include, but are not limited to, polyethylene glycol or polypropylene glycol. Poly glycol chains can comprise a mixture that provides an average chain length "n" of about "7.5". In certain embodiments, the average chain length "n" can vary from about 5 to about 14. Terminal groups can include, but are not limited to, alkyl groups such as a methyl group. Effective organosilicone compounds are believed to include, but are not limited to, trisiloxane ethoxylate surfactants or polyalkylene oxide modified heptamethyl trisiloxane.



(Compound I: polyalkyleneoxide heptamethyltrisiloxane, average n=7.5).

In certain embodiments, an organosilicone preparation that comprises an organosilicone compound comprising a trisiloxane head group is used in the methods and compositions provided herein. In certain embodiments, an organosilicone preparation that comprises an organosilicone compound comprising a heptamethyltrisiloxane head group is used in the methods and compositions provided herein. In certain embodiments, an organosilicone composition that comprises Compound I is used in the methods and compositions provided herein. In certain embodiments, an organosilicone composition that comprises Compound I is used in the methods and compositions provided herein. In certain embodiments of the methods and compositions provided herein, a composition that comprises a polynucleotide molecule and one or more effective organosilicone compound in the range of about 0.015 to about 2 percent by weight (wt percent) (*e. g.*, about 0.01, 0.015, 0.02, 0.025, 0.03, 0.035, 0.04, 0.045, 0.05, 0.055, 0.06, 0.065, 0.07, 0.075, 0.08, 0.085, 0.09, 0.095, 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1.0, 1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 1.7, 1.8, 1.9, 2.0, 2.1, 2.2, 2.3, 2.5 wt percent) is used or provided.

Compositions include but are not limited components that are one or more polynucleotides essentially identical to, or essentially complementary to a PPG oxidase gene sequence (promoter, intron, exon, 5' untranslated region, 3' untranslated region), a transfer agent that provides for the polynucleotide to enter a plant cell, a herbicide that complements the action of the polynucleotide, one or more additional herbicides that further enhance the herbicide activity of the composition or provide an additional mode of action different from the complementing herbicide, various salts and stabilizing agents that enhance the utility of the composition as an admixture of the components of the composition.

The methods include one or more applications of a polynucleotide composition and one or more applications of a permeability-enhancing agent for conditioning of a plant to permeation

by polynucleotides. When the agent for conditioning to permeation is an organosilicone composition or compound contained therein, embodiments of the polynucleotide molecules are double-stranded RNA oligonucleotides, single-stranded RNA oligonucleotides, double-stranded RNA polynucleotides, single-stranded RNA polynucleotides, double-stranded DNA oligonucleotides, single-stranded DNA oligonucleotides, double-stranded DNA polynucleotides, single-stranded DNA polynucleotides, chemically modified RNA or DNA oligonucleotides or polynucleotides or mixtures thereof.

Compositions and methods are useful for modulating the expression of an endogenous PPG oxidase gene (for example US Patent No. 7,838,263; 6,084,155) or transgenic PPG oxidase gene (US Patent No. 7,842,856; 7,485,777; US Patent Publ. 20070050863) in a plant cell. In various embodiments, a PPG oxidase gene includes coding (protein-coding or translatable) sequence, non-coding (non-translatable) sequence, or both coding and non-coding sequence. Compositions can include polynucleotides and oligonucleotides designed to target multiple genes, or multiple segments of one or more genes. The target gene can include multiple consecutive segments of a target gene, multiple non-consecutive segments of a target gene, multiple alleles of a target gene, or multiple target genes from one or more species.

A method is provided for modulating expression of a PPG oxidase gene in a plant including (a) conditioning of a plant to permeation by polynucleotides and (b) treatment of the plant with the polynucleotide molecules, wherein the polynucleotide molecules include at least one segment of 18 or more contiguous nucleotides cloned from or otherwise identified from the target PPG oxidase gene in either anti-sense or sense orientation, whereby the polynucleotide molecules permeate the interior of the plant and induce modulation of the target gene. The conditioning and polynucleotide application can be performed separately or in a single step. When the conditioning and polynucleotide application are performed in separate steps, the conditioning can precede or can follow the polynucleotide application within minutes, hours, or days. In some embodiments more than one conditioning step or more than one polynucleotide molecule application can be performed on the same plant. In embodiments of the method, the segment can be cloned or identified from (a) coding (protein-encoding), (b) non-coding (promoter and other gene related molecules), or (c) both coding and non-coding parts of the target gene. Non-coding parts include DNA, such as promoter regions or the RNA transcribed by the DNA that provide RNA regulatory molecules, including but not limited to: introns, 5' or

3' untranslated regions, and microRNAs (miRNA), *trans*-acting siRNAs, natural anti-sense siRNAs, and other small RNAs with regulatory function or RNAs having structural or enzymatic function including but not limited to: ribozymes, ribosomal RNAs, t-RNAs, aptamers, and riboswitches.

All publications, patents and patent applications are herein incorporated by reference to the same extent as if each individual publication or patent application was specifically and individually indicated to be incorporated by reference.

The following examples are included to demonstrate examples of certain preferred embodiments. It should be appreciated by those of skill in the art that the techniques disclosed in the examples that follow represent approaches the inventors have found function well in the practice of the invention, and thus can be considered to constitute examples of preferred modes for its practice. However, those of skill in the art should, in light of the present disclosure, appreciate that many changes can be made in the specific embodiments that are disclosed and still obtain a like or similar result without departing from the spirit and scope of the invention.

EXAMPLES

Example 1. Polynucleotides related to the PPG oxidase gene sequences.

The target PPG oxidase polynucleotide molecule naturally occurs in the genome of Amaranthus albus, Amaranthus graecizans, Amaranthus hybridus, Amaranthus lividus, Amaranthus palmeri, Amaranthus rudis, Amaranthus spinosus, Amaranthus thunbergii, Amaranthus viridis, Ambrosia trifida, Chenopodium album, Commelina diffusa, Conyza canadensis, Digitaria sanguinalis, Euphorbia heterophylla, Kochia scoparia, Lolium multiflorum and include molecules related to the expression of a polypeptide identified as a PPG oxidase, that include regulatory molecules, cDNAs comprising coding and noncoding regions of a PPG oxidase gene and fragments thereof as shown in Table 1.

Polynucleotide molecules were extracted from these plant species by methods standard in the field, for example, total RNA was extracted using Trizol Reagent (Invitrogen Corp, Carlsbad, CA Cat. No. 15596-018), following the manufacturer's protocol or modifications thereof by those skilled in the art of polynucleotide extraction that may enhance recover or purity of the extracted RNA. Briefly, start with 1 gram of ground plant tissue for extraction. Prealiquot 10 milliliters (mL) Trizol reagent to 15 mL conical tubes. Add ground powder to tubes and shake to

homogenize. Incubate the homogenized samples for 5 minutes (min) at room temperature (RT) and then add 3 mL of chloroform. Shakes tubes vigorously by hand for 15-30 seconds(sec) and incubate at RT for 3 min. Centrifuge the tubes at 7,000 revolutions per minute (rpm) for 10 min at 4 degrees C. Transfer the aqueous phase to a new 1.5 mL tube and add 1 volume of cold isopropanol. Incubate the samples for 20-30 min at RT and centrifuge at 10,000 rpm for 10 min at 4 degrees C. Wash pellet with Sigma-grade 80 percent ethanol. Remove the supernatant and briefly air-dry the pellet. Dissolve the RNA pellet in approximately 200 microliters of DEPC treated water. Heat briefly at 65 degrees C to dissolve pellet and vortex or pipet to resuspend RNA pellet. Adjust RNA concentraiton to 1-2 microgram/microliter.

DNA was extracted using EZNA SP Plant DNA Mini kit (Omega Biotek, Norcross GA, Cat#D5511) and Lysing Matrix E tubes (Q-Biogen, Cat#6914), following the manufacturer's protocol or modifications thereof by those skilled in the art of polynucleotide extraction that may enhance recover or purity of the extracted DNA. Briefly, aliquot ground tissue to a Lysing Matrix E tube on dry ice, add 800µl Buffer SP1 to each sample, homogenize in a bead beater for 35-45sec, incubate on ice for 45-60 sec, centrifuge at ≥14000 rpm for 1min at RT, add 10 microliter RNase A to the lysate, incubate at 65˚C for 10min, centrifuge for 1min at RT, add 280µl Buffer SP2 and vortex to mix, incubate the samples on ice for 5min, centrifuge at ≥10,000g for 10 min at RT, transfer the supernatant to a homogenizer column in a 2ml collection tube, centrifuge at 10,000g for 2 min at RT, transfer the cleared lysate into a 1.5ml microfuge tube, add 1.5 volumes Buffer SP3 to the cleared lysate, vortex immediately to obtain a homogeneous mixture, transfer up to 650µl supernatant to the Hi-Bind column, centrifuge at 10,000g for 1min, repeat, apply 100µl 65˚C Elution Buffer to the column, centrifuge at 10,000g for 5min at RT.

Next-generation DNA sequencers, such as the 454-FLX (Roche, Branford, CT), the SOLiD (Applied Biosystems,), and the Genome Analyzer (HiSeq2000, Illumina, San Diego, CA) were used to provide polynucleotide sequence from the DNA and RNA extracted from the plant tissues. Raw sequence data is assembled into contigs. The contig sequence is used to identify trigger molecules that can be applied to the plant to enable regulation of the gene expression.

The target DNA sequence isolated from genomic (gDNA) and coding DNA (cDNA) from the various weedy plant species for the PPG oxidase gene and the assembled contigs as set

forth in SEQ ID NOs 1-71 and Table 1 (See supplemental attachment 40_21(58640)Btable1.doxc)

Example 2. Polynucleotides related to the trigger molecules

The gene sequences and fragments of Table 1 were divided into 200 polynucleotide (200-mer) lengths with 25 polynucleotide overlapping regions and are shown in Table 2, SEQ ID NO:72-429. These polynucleotides are tested to select the most efficacious trigger regions across the length of any target sequence. The trigger polynucleotides are constructed as sense or anti-sense ssDNA or ssRNA, dsRNA, or dsDNA, or dsDNA/RNA hybrids and combined with an organosilicone based transfer agent to provide a polynucleotide preparation. The polynucleotides are combined into sets of two to three polynucleotides per set, using 4-8 nmol of each polynucleotide. Each polynucleotide set is prepared with the transfer agent and applied to a plant or a field of plants in combination with a PPG oxidase inhibitor containing herbicide, or followed by a PPG oxidase inhibitor treatment one to three days after the polynucleotide application, to determine the effect on the plant's susceptibility to a PPG oxidase inhibitor. The effect is measured as stunting the growth and/or killing of the plant and is measured 8-14 days after treatment with the polynucleotide set and PPG oxidase inhibitor. The most efficacious sets are identified and the individual polynucleotides are tested in the same methods as the sets are and the most efficacious single 200-mer identified. The 200-mer sequence is divided into smaller sequences of 50-70-mer regions with 10-15 polynucleotide overlapping regions and the polynucleotides tested individually. The most efficacious 50-70-mer is further divided into smaller sequences of 25-mer regions with a 12 to 13 polynucleotide overlapping region and tested for efficacy in combination with PPG oxidase inhibitor treatment. By this method it is possible to identify an oligonucleotide or several oligonucleotides that are the most efficacious trigger molecule to effect plant sensitivity to a PPG oxidase inhibitor or modulation of a PPG oxidase gene expression. The modulation of PPG oxidase gene expression is determined by the detection of PPG oxidase siRNA moleclules specific to a PPG oxidase gene or by an observation of a reduction in the amount of PPG oxidase RNA transcript produced relative to an untreated plant or by merely observing the anticipated phenotype of the application of the trigger with the PPG oxidase inhibitor containing herbicide. Detection of siRNA can be accomplished, for

example, using kits such as mirVana (Ambion, Austin TX) and mirPremier (Sigma-Aldrich, St Louis, MO).

The target DNA sequence isolated from genomic (gDNA) and coding DNA (cDNA) from the various weedy plant species for the PPG oxidase gene and the assembled contigs as set forth in SEQ ID NOs 1-71 were divided into polynucleotide fragments as shown in Table 2 (See supplemental attachment 40_21(58640)Btable2.docx) and as set forth in SEQ ID NOs 72-1381.

The gene sequences and fragments of Table 1 were compared and 21-mers of contiguous polynucleotides were identified that had homology across the various PPG oxidase gene sequences. The purpose is to identify trigger molecules that are useful as herbicidal molecules or in combination with a PPG oxidase inhibitor herbicide across a broad range of weed species. The sequences shown in Table 3 represent the 21-mers that were present in the PPG oxidase gene of at least eight of the weed species of Table 1. It is contemplated that additional 21-mers can be selected from the sequences of Table 1 that are specific for a single weed species or a few weeds species within a genus or trigger molecules that are at least 18 contiguous nucleotides, at least 19 contiguous nucleotides, at least 20 contiguous nucleotides or at least 21 contiguous nucleotides in length and at least 85 percent identical to a PPG oxidase gene sequence selected from the group consisting of SEQ ID NO:1-71 or fragment thereof.

By this method it is possible to identify an oligonucleotide or several oligonucleotides that are the most efficacious trigger molecule to effect plant sensitivity to PPG oxidase inhibitor or modulation of PPG oxidase gene expression. The modulation of PPG oxidase gene expression is determined by the detection of PPG oxidase siRNA moleclules specific to PPG oxidase gene or by an observation of a reduction in the amount of PPG oxidase RNA transcript produced relative to an untreated plant. Detection of siRNA can be accomplished, for example, using kits such as mirVana (Ambion, Austin TX) and mirPremier (Sigma-Aldrich, St Louis, MO).

The target DNA sequence isolated from genomic (gDNA) and coding DNA (cDNA) from the various weedy plant species for the PPG oxidase gene and the assembled contigs as set forth in SEQ ID NOs 1-71 were divided into fragments as shown in Table 3 (See supplemental attachment 40_21(58640)Btable3.docx) and as set forth in SEQ ID NOs 1382-2221.

Example 3. Methods used related to treating plants or plant parts with a topical mixture of the trigger molecules.

Glyphosate-sensitive Palmer amaranth (*A. palmeri* R-22) plants were grown in the greenhouse (30 / 20 C day/night T; 14 hour photoperiod) in 4 inch square pots containing Sun Gro® Redi-Earth and 3.5 kg/cubic meter Osmocote® 14-14-14 fertilizer. Palmer amaranth plants at 5 to 10 cm in height were pre-treated with a mixture of short (24-25mer) single-strand antisense oligo DNA polynucleotides (ssDNA,) targeting PPG oxidase coding or noncoding regions at 16 nmol, formulated in 10 millimolar sodium phosphate buffer (pH 6.8) containing 2% ammonium sulfate and 0.5% Silwet L-77. Plants were treated manually by pipetting 10 µL of polynucleotide solution on four fully expanded mature leaves, for a total of 40 microliters of solution per plant. Twenty-four and forty-eight hours later, the plants were treated with fomesafen (Reflex) at 22 g ai/ha and flumioxazin (Valor) at 4 g ai/ha, crop oil concentrate (COC) at 1% is added to the herbicide treatments. The formulation control is the buffer and adjuvants without the DNA polynucleotides. Four replications of each treatment were conducted. Plant height is determined just before ssDNA treatment and at intervals upto fourteen days (dat) after herbicide treatments to determine effect of the oligonucleotide and herbicide treatments. The results shown in Figure 1 and Figure 2 demonstrate that the oligonucleotide treatment enhanced the herbicidal activity of both fomesafen and flumioxazin.

A pool comprising eight antisense ssDNA oligonucleotides shown in Table 4 was used to in the protocol as described to treat palmer amaranth plants and the individual oligonucleotides and various combinations of oligonucleotides were tested for efficacy. Surprisingly, it was necessary to have a 3 oligonucleotide pool (oligo3, 5,and 7) of the 8 oligonucleotides to reproduce the effect observed with the 8 oligonucleotide pool and combinations of only 2 of the 3 oligonucleotides was not effective to provide enhanced herbicide sensitivity. This result is illustrated in figure 3 for activity on Palmer amaranth, the same 3 oligonucleotides were also active on a related species, waterhemp (*Amaranthus rudis*).

Table 4. Antisense ssDNA PPG oxidase oligonucleotides

OLIGO1	SEQ ID NO:2214	GTGATATTACCTCCAACACGAT
OLIGO2	SEQ ID NO:2215	ATAGTAAGCACAGGATCGGAG
OLIGO3	SEQ ID NO:2216	CTTTCAATCCACTGTCAACCG
OLIGO4	SEQ ID NO:2217	ATCAAGCGTTCGAAGACCTCAT

OLIGO5	SEQ ID NO:2218	CAGCAATGGCGGTAGGTAACA
OLIGO6	SEQ ID NO:2219	GCAATTGCCCGAATCCTTTTA
OLIGO7	SEQ ID NO:2220	TAGCTCAAtATCAAGGTCCTA
OLIGO8	SEQ ID NO:2221	TCATAAGCACCCTCTATACAC

Example 4. A method to control weeds in a field.

A method to control weeds in a field comprises the use of trigger polynucleotides that can modulate the expression of a PPG oxidase gene in one or more target weed plant species. In Table 3 (SEQ ID NO: 1381-2221), an analysis of PPG oxidase gene sequences from seventeen plant species provided a collection of 21-mer polynucleotides that can be used in compositions to affect the growth or develop or sensitivity to PPG oxidase inhibitor herbicide to control multiple weed species in a field. A composition containing 1 or 2 or 3 or 4 or more of the polynucleotides of Table 3 would enable broad activity of the composition against the multiple weed species that occur in a field environment.

The method includes creating a composition that comprises components that include at least one polynucleotide of Table 3 or any other effective gene expression modulating polynucleotide essentially identical or essentially complementary to SEQ ID NO:1-71 or fragment thereof, a transfer agent that mobilizes the polynucleotide into a plant cell and a PPG oxidase inhibiting herbicide and optionally a polynucleotide that modulates the expression of an essential gene and optionally a herbicide that has a different mode of action relative to a PPG oxidase inhibitor. The polynucleotide of the composition includes a dsRNA, ssDNA or dsDNA or a combination thereof. A composition containing a polynucleotide can have a use rate of about 1 to 30 grams or more per acre depending on the size of the polynucleotide and the number of polynucleotides in the composition. The composition may include one or more additional herbicides as needed to provide effective multi-species weed control. A field of crop plants in need of weed plant control is treated by spray application of the composition. The composition can be provided as a tank mix, a sequential treatment of components (generally the polynucleotide followed by the herbicide), a simultaneous treatment or mixing of one or more of the components of the composition from separate containers. Treatment of the field can occur as often as needed to provide weed control and the components of the composition can be adjusted to target specific weed species or weed families.

Example 5. Herbicidal Compositions comprising pesticidal agents

A method of controlling weeds and plant pest and pathogens in a field of PPG oxidase inhibitor tolerant crop plants is provided, wherein the method comprises applying a composition comprising a PPG oxidase trigger oligonucleotide, a PPG oxidase inhibitor composition and an admixture of a pest control agent. For example, the admixture comprises insecticides, fungicides, nematocides, bactericides, acaricides, growth regulators, chemosterilants, semiochemicals, repellents, attractants, pheromones, feeding stimulants or other biologically active compounds or biological agents, such as, microorganisms.

For example, the admixture comprises a fungicide compound for use on a PPG oxidase inhibitor tolerant crop plant to prevent or control plant disease caused by a plant fungal pathogen, The fungicide compound of the admixture may be a systemic or contact fungicide or mixtures of each. More particularly the fungicide compound includes, but is not limited to members of the chemical groups strobilurins, triazoles, chloronitriles, carboxamides and mixtures thereof. The composition may additional have an admixture comprises an insecticidal compound or agent.

The PPG oxidase trigger oligonucleotides and PPG oxidase inhibitor (for example, fomesafen) tank mixes with fungicides, insecticides or both are tested for use in soybean and corn for control of foliar diseases and pests. Testing is conducted to develop a method for use of mixtures of the trigger oligonucleotides and fomesafen formulation and various commercially available fungicides for weed control and pest control. The field plots are planted with soybeans or corn. All plots receive a post plant application of the PPG oxidase trigger + fomesafen about 3 weeks after planting. The mixtures of trigger + fomesafen or trigger + fomesafen + fungicide + insecticides are used to treat the plots at the R1 stage of soybean development (first flowering) or tassel stage of corn. Data is taken for percent weed control at 7 and 21 days after R1 treatment, soybean safety (% necrosis, chlorosis, growth rate): 5 days after treatment, disease rating, pest ratings and yield (bushels/Acre). These mixtures and treatments are designed to provide simultaneous weed and pest control, such as fungal pest control, for example, leaf rust disease; and insect pest control, for example, aphids, armyworms, loopers, beetles, stinkbugs, and leaf hoppers.

Agricultural chemicals are provided in containers suitable for safe storage, transportation and distribution, stability of the chemical compositions, mixing with solvents and instructions for

use. A container of a mixture of a trigger oligonucleotide + a herbicice + fungicide compound, or a mixture of a trigger oligonucleotide + herbicide compound and an insecticide compound, or a trigger oligonucleotide + a herbicide compound and a fungicide compound and an insecticide compound (for example, lambda-cyhalothrin, Warrier®). The container may further provide instructions on the effective use of the mixture. Containers of the present invention can be of any material that is suitable for the storage of the chemical mixture. Containers of the present invention can be of any material that is suitable for the shipment of the chemical mixture. The material can be of cardboard, plastic, metal, or a composite of these materials. The container can have a volume of 0.5 liter, 1 liter, 2 liter, 3-5 liter, 5-10 liter, 10-20 liter, 20-50 liter or more depending upon the need. A tank mix of a trigger oligonucleotide + herbicide compound and a fungicide compound is provided, methods of application to the crop to achieve an effective dose of each compound are known to those skilled in the art and can be refined and further developed depending on the crop, weather conditions, and application equipment used.

Insecticides, fungicides, nematocides, bactericides, acaricides, growth regulators, chemosterilants, semiochemicals, repellents, attractants, pheromones, feeding stimulants or other biologically active compounds can be added to the trigger oligonucleotide to form a multi-component pesticide giving an even broader spectrum of agricultural protection. Examples of such agricultural protectants with which compounds of this invention can be formulated are: insecticides such as abamectin, acephate, azinphos-methyl, bifenthrin, buprofezin, carbofuran, chlorfenapyr, chlorpyrifos, chlorpyrifos-methyl, cyfluthrin, beta-cyfluthrin, cyhalothrin, lambda-cyhalothrin, deltamethrin, diafenthiuron, diazinon, diflubenzuron, dimethoate, esfenvalerate, fenoxycarb, fenpropathrin, fenvalerate, fipronil, flucythrinate, tau-fluvalinate, fonophos, imidacloprid, isofenphos, malathion, metaldehyde, methamidophos, methidathion, methomyl, methoprene, methoxychlor, methyl 7-chloro-2,5-dihydro-2-[[N-(methoxycarbonyl)-N-[4-(trifluoromethoxy)phenyl]amino]carbonyl]indeno[1,2-e][1,3,4]oxadiazine-4a(3H)-carboxylate (DPX-JW062), monocrotophos, oxamyl, parathion, parathion-methyl, permethrin, phorate, phosalone, phosmet, phosphamidon, pirimicarb, profenofos, rotenone, sulprofos, tebufenozide, tefluthrin, terbufos, tetrachlorvinphos, thiodicarb, tralomethrin, trichlorfon and triflumuron; most preferably a PPG oxidase inhibitor compound is formulated with a fungicide compound or combinations of fungicides, such as azoxystrobin, benomyl, blasticidin-S, Bordeaux mixture (tribasic copper sulfate), bromuconazole, captafol, captan, carbendazim, chloroneb,

chlorothalonil, copper oxychloride, copper salts, cymoxanil, cyproconazole, cyprodinil (CGA 219417), diclomezine, dicloran, difenoconazole, dimethomorph, diniconazole, diniconazole-M, dodine, edifenphos, epoxiconazole (BAS 480F), famoxadone, fenarimol, fenbuconazole, fenpiclonil, fenpropidin, fenpropimorph, fluazinam, fluquinconazole, flusilazole, flutolanil, flutriafol, folpet, fosetyl-aluminum, furalaxyl, hexaconazole, ipconazole, iprobenfos, iprodione, isoprothiolane, kasugamycin, kresoxim-methyl, mancozeb, maneb, mepronil, metalaxyl, metconazole, S-methyl 7-benzothiazolecarbothioate (CGA 245704), myclobutanil, neo-asozin (ferric methanearsonate), oxadixyl, penconazole, pencycuron, probenazole, prochloraz, propiconazole, pyrifenox, pyroquilon, quinoxyfen, spiroxamine (KWG4168), sulfur, tebuconazole, tetraconazole, thiabendazole, thiophanate-methyl, thiram, triadimefon, triadimenol, tricyclazole, trifloxystrobin, triticonazole, validamycin and vinclozolin; combinations of fungicides are common for example, cyproconazole and azoxystrobin, difenoconazole, and metalaxyl-M, fludioxonil and metalaxyl-M, mancozeb and metalaxyl-M, copper hydroxide and metalaxyl-M, cyprodinil and fludioxonil, cyproconazole and propiconazole; commercially available fungicide formulations for control of Asian soybean rust disease include, but are not limited to Quadris® (Syngenta Corp), Bravo® (Syngenta Corp), Echo 720® (Sipcam Agro Inc), Headline® 2.09EC (BASF Corp), Tilt® 3.6EC (Syngenta Corp), PropiMax™ 3.6EC (Dow AgroSciences), Bumper® 41.8EC (MakhteshimAgan), Folicur® 3.6F (Bayer CropScience), Laredo® 25EC (Dow AgroSciences), Laredo™ 25EW (Dow AgroSciences), Stratego® 2.08F (Bayer Corp), Domark™ 125SL (Sipcam Agro USA), and Pristine®38%WDG (BASF Corp) these can be combined with PPG oxidase inhibitor compositions as described in the present invention to provide enhanced protection from fungal disease; nematocides such as aldoxycarb and fenamiphos; bactericides such as streptomycin; acaricides such as amitraz, chinomethionat, chlorobenzilate, cyhexatin, dicofol, dienochlor, etoxazole, fenazaquin, fenbutatin oxide, fenpropathrin, fenpyroximate, hexythiazox, propargite, pyridaben and tebufenpyrad; and biological agents such as *Bacillus thuringiensis*, *Bacillus thuringiensis* delta endotoxin, baculovirus, and entomopathogenic bacteria, virus and fungi.

Table 1

SEQ ID NO	SPECIES	TYPE	LENGTH	SEQ
1	Amaranthus albus	cDNAContig	1200	GGAATCCTTGATTTGAAGATAGGATAACCAGAG AGAGTGCGAGAGAGATGAGTGCGATGGCGTTAT CGAGCAGCATTCTACAATGTCCGCCGCACTCCGA CATCTCGTTCCGCTTTTTTGCTCATACACGAACCC ACTCCCCCATCTTCTTCAGAAGACCACGAAAATTA TCATATATCCATTGTTCCACAAGCTCAAGCTCAAC TGCCAATTACCAGAACACGATTACGAGCCAAGG AGAAGGAGAAAAAGTATTAGATTGTGTAATTGTT GGAGCTGGTATCAGTGGACTTTGCATTGCTCAGG CTCTTTCTACCAAACACATTCAATCCAATCTCAAT TTCATTGTCACTGAAGCTAAACATCGTGTTGGAG GTAATATCACTACCATGGAGTCCGATGGCTATAT CTGGGAAGAGGGTCCTAATAGTTTCCAACCCTCC GATCCTGTGCTTACTATGGCGGTTGACAGTGGAT TGAAAGACGATTTGGTCTTGGGAGATCCTAATGC CCCTCGTTTCGTGCTGTGGAATGGTAAATTAAGG CCTGTTCCTTCCAAACCTACGGACCTTCCCTTTTT GATCTCATGAGCTTTCCTGGTAAGATTAGGGCTG GTCTTGGTGCACTTGGTCTTCGTCCTCCTCCTCCT CCTTCTTCTTATGAGGAATCCGTTGAAGAATTTGT GCGCCGTAATCTCGGCGATGAGGTCTTCGAACG CTTGATTGAACCCTTTTGTTCTGGTGTCTATGCTG GTGATCCTGCAAAGTTGAGTATGAAAGCTGCATT TGGAAAGGTCTGGACCTTAGAGCAAAAGGGTGG TAGTATCATCGCCGGTACACTCAAAACTATTCAG GAAAGGAAGAATAATCCTCCACCCCCTCGAGACC CCCGCCTTCCTAAACCTAAGGGCCAGACTGTTGG ATCCTTTAGGAAAGGACTCATTATGTTACCTACC GCCATTGCTGCTAGGCTTGGCAGTAAAGTCAAAC TATCGTGGACACTTTCTAATATTGATAAGTCGCTC AATGGTGAATACAATCTCACATATCAAACACCCG ATGGACCGGTTTCTGTTAGGACCAAAGCGGTTGT CATGACTGTCCCTTCATACATTGCAAGTAGCCTG CTTCGTCCGCTCTCAGATGTTGCTGCAGATTCTCT TCTAAATTTACTATCCTCCAGTCGCAGCAGTGTCC CTT
2	Amaranthus albus	cDNAContig	487	TAGGACCTTGATCTTGAGCTACATTGGAGGTGCT ACAAATCTTGGCATATTACAAAAGAGTGAAGATG AACTTGCGGAGACAGTTGATAAGGATCTCAGAA AAATTCTGATAAATCCAAATGCGAAAGGCAGCC GTGTTCTGGGAGTGAGAGTATGGCCAAAGGCAA TCCCCCAATTTTTAGTTGGTCACTTTGATCTGCTA GATGCTGCAAAAGCTGCTTTGGCAAATGCTGGG CTAAAGGGGTTGTTTCTTGGTGGTAATTATGTAT

				CAGGTGTTGCCTTGGGGAGGTGTATAGAGGGTG CTTATGACTCTGCATCTCAGGTAGTGGATTTCCTC TCACAGTACAAAGACAAGTAGTCAGTAGGGCTC CAGCATCCTGGTTAAGTAACTTTTTGTAGCTGTTG TAATTCAGATATAAAATAGCCCACAGTCAAACAA GTTTGGAAAGATGTAAAAGCATGAGATACAGTC GGTGTTCATTGAGAG
3	Amaranthus graecizans	cDNAContig	1847	GTGCGAGAGAGATGAGTGCGATGGCGTTATCGA GCAGCATTCTACAATGTCCGCCGCACTCCGACAT CTCGTTCCGCTTTTTTGCTCATACACGAACCCACT CCCCCATCTTCTTCAGAAGACCACGAAAATTATCA TATATCCATTGTTCCACAAGCTCAAGCTCAACTGC CAATTACCAGAACACGATTACGAGCCAAGGAGA AGGAGAAAAAGTATTAGATTGTGTAATTGTTGG AGCTGGTATCAGTGGACTTTGCATTGCTCAGGCT CTTTCTACCAAACACATTCAATCCAATCTCAATTT CATTGTCACTGAAGCTAAACATCGTGTTGGAGGT AATATCACTACCATGGAGTCCGATGGCTATATCT GGGAAGAGGGTCCTAATAGTTTCCAACCCTCCGA TCCTGTGCTTACTATGGCGGTTGACAGTGGATTG AAAGACGATTTGGTCTTGGGAGATCCTAATGCCC CTCGTTTCGTGCTGTGGAATGGTAAATTAAGGCC TGTTCCTTCCAAGCCTACGGACCTTCCCTTTTTTG ATCTCATGAGCTTTCCTGGTAAGATTAGGGCTGG TCTTGGTGCACTTGGTCTTCGTCCTCCTCCTCCTC CTTCTTCTTATGAGGAATCCGTTGAAGAATTTGT GCGCCGTAATCTCGGCGATGAGGTCTTCGAACG CTTGATTGAACCCTTTTGTTCTGGTGTCTATGCTG GTGATCCTGCAAAGTTGAGTATGAAAGCTGCATT TGGAAAGGTCTGGACCTTAGAGCAAAAGGGTGG TAGTATCATCGCCGGTACACTCAAAACTATTCAG GAAAGGAAGAATAATCCTCCACCCCCTCGAGACC CCCGCCTTCCTAAACCTAAGGGCCAGACTGTTGG ATCCTTTAGGAAAGGACTCATTATGTTACCTACC GCCATTGCTGCTAGGCTTGGCAGTAAAGTCAAAC TATCGTGGACACTTTCTAATATTGATAAGTCGCTC AATGGTGAATACAATCTCACATATCAAACACCCG ATGGACCGGTTTCTGTTAGGACCAAAGCGGTTGT CATGACTGTCCCTTCATACATTGCAAGTAGCCTG CTTCGTCCGCTCTCAGATGTTGCTGCAGATTCTCT TTCTAAATTTTACTATCCTCCAGTCGCAGCAGTGT CCCTTTCTTATCCCAAAGAAGCAATTAGACCAGA ATGCTTGATCGATGGAGAACTAAAAGGATTCGG GCAATTGCATCCCCGCAGCCAGGGTGTGGAAAC CTTGGGAACAATTTATAGTTCATCTCTTTTCCCTG GTCGAGCACCACCCGGTAGGACCTTGATCTTGAG CTACATTGGAGGTGCTACAAATCTTGGCATATTA CAAAAGAGTGAAGATGAACTTGCGGAGACAGTT

				GATAAGGATCTCAGAAAAATTCTGATAAATCCAA ATGCGAAAGGCAGCCGTGTTCTGGGAGTGAGAG TATGGCCAAAGGCAATCCCCCAATTTTTAGTTGG TCACTTTGATCTGCTAGATGCTGCAAAAGCTGCT TTGGCAAATGCTGGGCTAAAGGGGTTGTTTCTTG GTGGTAATTATGTATCAGGTGTTGCCTTGGGGAG GTGTATAGAGGGTGCTTATGACTCTGCATCTCAG GTAGTGGATTTCCTCTCACAGTACAAAGACAAGT AGTCAGTAGGGCTCCAGCATCCTGGTTAAGTAAC TTTTTGTAGCTGTTGTAATTCAGATATAAAATAGC CCACAGTCAAACAAGTTTGGAAAGATGTAAAAG CATGAGATACAGTCGGTGTTCATTGAGAGGATA GATGCAAATAACTTGGACGGAAAAGTACTAGTTC CCCATTGTTT
4	Amaranthus hybridus	cDNAContig	1170	GAAGCTAAACATCGTGTTGGAGGTAATATCACTA CCATGGAGTCCGATGGCTATATCTGGGAAGAGG GTCCTAATAGTTTCCAACCCTCTGATCCTGTGCTT ACTATGGCGGTTGACAGTGGATTGAAAGACGAT TTGGTCTTGGGAGATCCTAATGCCCCTCGTTTCGT GCTCTGGAATGGTAAATTAAGGCCTGTTCCTTCC AAACCTACGGACCTTCCCTTTTTTGATCTCATGAG CTTTCCTGGTAAGATTAGGGCTGGTCTTGGTGCA CTTGGTCTTCGTCGTCCTCCTCCTCCTTCTTCTTAT GAGGAATCTGTTGAAGAATTTGTGCGCCGTAATC TCGGCGATGAGGTCTTCGAACGCTTGATCGAACC CTTTTGTTCTGGTGTGTATGCTGGTGATCCTACAA AGTTGAGTATGAAAGCTGCATTTGGAAAGGTCT GGACCTTAGAGCAAAAGGGTGGTAGTATCATCG CCGGTACACTCAAAACTATTCAGGAAAGGAAGA ATAATCCTCCACCCCCTCGAGACCCCCGCCTTCCT AAACCTAAGGGCCAGACTGTTGGATCCTTTAGGA AAGGGCTCATTATGTTACCTACCGCCATTGCTGC TAGGCTTGGCAGTAAAGTCAAACTATCGTGGACA CTTTCTAATATTGATAAGTCGCTCAATGGTGAAT ACATTCTCACTTATCAAACACCCGATGGACCGGT TTCTGTTAGGACCAAAGCGGTTGTCATGACTGTC CCTTCATACATTGCAAGTAGCCTGCTTCGTCCGCT CTCAGATGTTGCTGCAGATTCTCTTTCTAAGTTTT ACTATCCACCAGTCGCAGCAGTGTCCCTTTCTTAT CCCAAAGAAGCAATTAGACCAGAATGCTTGATCG ATGGAGAACTAAAAGGATTCGGGCAATTGCATC CCCGCAGCCAGGGTGTGGAAACCTTGGGAACAA TTTATAGTTCATCTCTTTTCCCTTGGTTCGAGCAC CACCCGGTAGGACCTTGATCTTGAGCTACATTGG AGGTGCTACAAATGTTGGAATATTACAAAAGAGT GAAGATGAACTTGCGGATACAGTTGATAAGGAT CTCAGAAAAATTCTGATAAATCCAAATGCGAAAG GCAGCCGTGTTCTGGGAGTGAGAGTATGGCCAA

				AGGCAATCCCCC
5	Amaranthus lividus	cDNAContig	2344	TAGATTGTTGAGAGGGAATGGGCAATTAAGTGG AATCCCATTTCCTTAAACTCAGCTGGTGTATGTAA TGGTGTCTTTCCACCTTCAATCATGTTTGCAATTC TCAAACCTTTAACATCTCTAACAACCTCTTTTAGC TCTTCTATGTTGGCTGGTGCCTCAACAAATGTGG CATCAGCCCCTGCCTCTCTGTAAAGATTAGCACG TCTAATAGCTTCTTGAAGACCGTGAGGTGCACGA GCATCAGTCCTTGCAACCAAGAAGAAATCAGATT CACCAATGGCTTCCCTTGCTGCAGCGATCTTAAG GGCGTGCTCCTCTGCAGGAACAACTGCCTTACCA CGCATGTGACCACACTTCTTTGGCCATACTTGATC CTCAAGGAAAACACCCTTGGCACCAGCTGCGATC AAGTCTTTGATGAACCTTTGAACATTAAGAGGAC CACCACCACCGGTGTCTCCGTCAACAATAACACA CAAACTAGGAGCAGCTGCCGTAATTCTGCGAACA ACATCTACCACTTCTGCAGTTGTAAGCAAGCCAA AGTCGGGCAAGCCAAGAAGAGCAGCGGAAACA CCAAAACCGGAGACAAAGCAAGCTTTGAAGCCG GTTTTAGCGCAAATGGCGGCGGAGAAAGCGTCT TGGATTCCGGGCATTAAAATTGGTCCCTCCTCGG CGATCAGACGGTGCATTGTGGTCTTTCCGACTGC CTCAAGAGAACCCATTTTTGTTTCTAATAATACAA TTTAGGAATTAAGGAAGGAGGTGATGATGAGTT GATAGAACTACTTAGTGTGTAATTGTTGGAGCTG GTATCAGTGGACTTTGCATTGCGCAGGCTCTTTC TACCAAACACATTCAATCCAATCTCAATTTCATTG TCACTGAAGCTAAACATCGTGTTGGAGGTAATAT TACTACCATGGAGTCCGATGGCTATATCTGGGAA GAGGGTCCTAATAGTTTCCAACCCTCTGATCCTG TGCTTACTATGGCGGTTGACAGTGGATTGAAAG ACGATTTGGTTTTGGGAGATCCTGATGCCCCTCG TTTCGTGCTCTGGAATGGTAAATTAAGGCCTGTT CCTTCTAAACCTACGGACCTTCCCTTTTTTGATCTC ATGAGCTTTCCTGGTAAGATTAGGGCTGGTCTTG GTGCACTTGGTCTTCGTCCTCCTCCTCCTCCTCCTT CTTATGAGGAATCTGTTGAAGAATTTGTGCGCCG TAATCTCGGCGATGAGGTCTTCGAACGCTTAATC GAACCCTTTTGTTCTGGTGTGTATGCTGGTGATC CTACAAAGTTGAGTATGAAAGCTGCATTTGGAAA GGTCTGGACCTTAGAGCAAAAGGGTGGTAGTAT CATCGCCGGTACACTCAAATCTATTCAGGAAAGG AAGAATAATCCTCCACCCCCTCGAGACCCCCGCC TTCCTAAACCTAAGGGCCAGACTGTTGGATCCTT TAGGAAAGGGCTCATTATGTTACCTACCGCCATT GCTGCTAGGCTTGGCAGTAAAGTCAAACTATCGT GGACACTTTCTAATATTGATAAGTCGCTCAATGG TGAATACAATCTCACTTATCAAACACCCGATGGA

				CCGGTTTCTGTTAGGACCAAAGCGGTTGTCATGA CTGTACCTTCATACATTGCAAGTAGCCTGCTTCGT CCACTCTCAGATGTTGCTGCAGATTCTCTTTCTAA GTTTTACTATCCACCAGTCGCAGCAGTGTCCCTTT CTTATCCCAAGGAAGCAATTAGACCAGAATGCTT GATCGATGGAGAACTAAAAGGATTCGGGCAATT GCATCCCCGCAGCCAGGGTGTGGAAACCTTGGG AACAATTTATAGTTCATCTCTTTTCCCTGGTCGAG CACCACCCGGTAGGACCTTGATCTTGAGCTACAT TGGAGGTGCTACAAATGTTGGAATATTACAAAA GAGTGAAGATGAACTTGCGGAGACAGTTGATAA GGATCTCAGAAAAATTCTGATAAATCCAAATGCG AAAGGCAGCCGTGTTCTGGGAGTGAGAGTATGG CCAAAGGCAATCCCCCAATTTTTAGTTGGTCACTT TGATCTGCTAGATGCTGCAAAAGCTGGTTTGGCA AATGCTGGGCTAAAGGGGTTGTTTCTTGGTGGTA ATTATGTATCAGGTGTTGCCTTGGGGAGGTGTAT AGAGGGTGCTTATGACTCTGCATCTCAGGTAGTG GATTTCCTCTCACAGTACAAAGACAAGTAGTCAA TAGGGCTCCACCTTCCTGGTTAACTAACTTTTTGT AGCTGTTGTAATTTGTATCATGTAATATTATTCAG ATGTAAAAGCATGAGATACAGTCGGTAT
6	Amaranthus palmeri	cDNAContig	1866	AATCCTTGATTTGAAGATAGGATAACCAGAGAG AGTGCAAGAGAGATGAGTGCCATGGCGTTATCG AGCAGCATTCTACAATGTCCGCCGCACTCCGACA TCTCTTTCCGCTTTTCTGCTTATACACCAACCCGCT CCCCCATCTTCTTCGGAAGACCTCGAAAATTATCA TATATCCATTGTTCCACAAGCTCAAGCTCAACTGC CAATTACCAGAACACGATTACGACCCAAGGAGA AGGAGATAAAGTATTGGATTGTGTAATTGTTGG AGCTGGTATCAGTGGACTTTGCATTGCTCAGGCT CTTTCTACCAAACACATTCAATCCAATCTCAATTT CATTGTCACTGAAGCTAAAAATCGTGTTGGAGGT AATATCACTACCATGGAGTCCGATGGCTATATCT GGGAAGAGGGTCCTAATAGTTTCCAACCCTCCGA TCCTGTGCTTACTATGGCGGTTGACAGTGGATTG AAAGATGATTTGGTCTTGGGAGATCCTAATGCTC CTCGTTTTGTGCTCTGGAATGGTAAATTAAGGCC TGTTCCTTCCAAACCTACGGACCTTCCCTTTTTTG ATCTCATGAGCTTTCCTGGTAAGATTAGGGCTGG TCTTGGTGCACTTGGTCTTCGTCCTTCTCCTCCTCC TCCTTCTTATGAGGAATCTGTTGAAGAATTTGTG CGCCGTAATCTCGGCGATGAGGTCTTCGAACGCT TGATCGAACCCTTTTGTTCTGGTGTGTATGCTGGT GATCCTTCAAAGTTGAGTATGAAAGCTGCATTTG GAAAGGTCTGGACCTTAGAGCAAAAGGGTGGTA GTATCATCGCCGGTACACTCAAAACTATTCAGGA AAGGAAGAATAATCCTCCACCGCCTCGAGACCCC

				CGCCTTCCTAAACCTAAGGGCCAGACTGTTGGAT CCTTTAGGAAAGGGCTCATTATGTTACCTACCGC CATTGCTGCTAGGCTTGGCAGTAAAGTCAAACTA TCGTGGACACTTTCTAATATTGATAAGTCGCTCA ATGGTGAATACAATCTCACTTATCAAACACCCGA TGGACCGGTTTCTGTTAGGACCAAAGCGGTTGTC ATGACTGTCCCTTCATACATTGCAAGTAGCCTGCT TCGTCCGCTCTCATGATGTTGCTGCAGATTCTCTT TCTAAATTTTACTATCCACCAGTCGCAGCAGTGTC CCTTTCTTATCCCAAAGAAGCAATTAGACCAGAA TGCTTGATCGATGGAGAACTAAAAGGATTCGGG CAATTGCATCCCGCAGCCAGGGTGTGGAAACCTT GGGAACAATTTATAGTTCATCTCTTTTCCCTGGTC GAGCACCACCTGGTAGGACCTTGATCTTGAGCTA CATTGGAGGTGCTACAAATGTTGGCATATTACAA AAGAGTGAAGATGAACTTGCGGAGACAGTTGAT AAGGATCTCAGAAAAATTCTGATAAATCCAAATG CGAAAGGCAGCCGTGTTCTGGGAGTGAGAGTAT GGCCAAAGGCAATCCCCCAATTTTTAGTAGGTCA TTTTGATCTGCTAGATGCTGCAAAAGCGGGTTTG GCAAATGCTGGACTAAAGGGGTTGTTTCTTGGTG GTAATTATGTATCAGGTGTTGCCTTGGGGAGGTG TATAGAGGGTGCTTATGACTCTGCATCTCAGGTT GTGGATTTCCTCTCACAGTACAAAGACAAGTAGT CATCCTGATTAACTAACTTTTTGTAGCTGTTGTAA TTTGTATCATGTAATATTATTATTTATTCAGATGT AAAAGCATGATATACAGTCGGTGTTCTTTGAGAG GATAGATGCAAATAACTTGGACGGTAAAGTACT AGTTCCTGTCTCTTATACACATCT
7	Amaranthus palmeri	cDNAContig	1066	CATGTGGTGGAGATCCTCAATCGCTATCTATGCA CCATACATTTCCCGACGTATGGAATGTTGAAAAA AGGTTTGGCTCTGTGTTTGCTGGACTAATTCAAT CAACATTGTTATCTAAGAAGGAAAAGGGTGGAG GGAAAATGCTTCTATCAAGAAGCCTCGTGTACGC GGTTCATTTTCATTCCATGGTGGAATGCAGACAC TTGTTGACACAATGTGCAAACAGCTTGGTGAAGA TGAACTCAAGCTCCAGTGTGAGGTGCTGTCCTTG TCATACAACCAGAAGGGGATCCCTTCATTAGGGA ATTGGTCAGTCTCTTCTATGTCAAATAATACCAGT GAAGATCAATCTTATGATGCTGTGGTTGTCACTG CTCCAATTCGCAATGTCAAAGAAATGAAGATTAT GAAATTTGGAAATCCATTTTCACTTGACTTTATTC CAGAGGTGACTTACGTACCCCTTTCCGTTATGATT ACTGCATTCAAGAAGGATAAAGTGAAGAGACCT CTCGAGGGCTTCGGAGTTCTTATCCCGTCTAAAG AGCAACATAATGGACTGAAGACTCTTGGTACTTT ATTTTCGTCTATGATGTTTCCTGATCGTGCTCCAT CTGATATGTGTCTTTTTACCACATTTGTCGGAGGA

				AGCAGAAATAGAAAACTTGCAAACGCTTCAACG GATGAATTGAAGCAAATAGTTTCTTCTGACCTTC AGCAGCTGTTGGGCACTGAGGACGAACCTTCATT TGTCAATCATCTCTTTTGGAGCAATGCATTCCCGT TGTATGGGCACAATTACGATTCTGTTTTGACAGC AATAGACAAGATGGAAAAGGATCTTCCTGGATTT TTTATGCAGGTAACCATAAGGGTGGACTTTCAGT AGGAAAAGCGATGGCCTCCGGATGCAAGGCTGC GGAACTTGTAATATCCTATCTGGACTCTCATTTAT ATGTGAAGATGGATGAGAAGACCGCGTAATCTT TCTGAAATTCCTTCACTGTAACCAAGCGTGTGAA GCCCCTGATTTTGCGTCTGTATATCCGATGATATA TCGCTGGAT
8	Amaranthus palmeri	cDNAContig	294	GGGGAGCGGGTTGCTGGATAACCAGAGAGAGT GCAAGAGAGATGAGTGCCATGGCGTTATCGAGC AGCATTCTACAATGTCCGCCGCACTCCGACATCT CTTTCCGCTTTTCTGCTTATACACCAACCCGCTCC CCCATCTTCTTCGGAAGACCTCGAAAATTATCATA TATCCATTGTTCCACAAGCTCAAGCTCAACTGCCA ATTACCAGAACACGATTACGACCCAAGGAGAAG GAGATAAAGTATTGGATTGTGTAATTGTTGGAGC TGGTATCAGTGGACTTTGCATTG
9	Amaranthus palmeri	gDNAContig	6448	GGTGTTTATTTGGGCATGGCCTTATGTGTGATGT TGGTAAATTTTGTGGCTTCGTCCACTAATCTGATG TATCGGATCTGTTAAAGGGAGCCCTCTCATCCTA TGCTTATCAATGACTTTTTCATATGCCTATCAAAC AGATCAGATTGGATCGGGTTCGAGTTCAGGTCAT ATATAAACATGTCAGCAAACCCTTGACCCATACC CAACCCATTTAGTTAATTGGCTTGAAAATCACAA CCTTAATTCGACCAGCGACAGATCAGGTTGACCT GATTTCGACCCACTTAACCCATTTATAATTTTTTT TCGATTTAAGTTTTTTAACATTGATTAAATCTAAT TTTTTAGGCTTTAATTTTAATTTTATGTTTTTTTGT TTAATTTGTATTTACTATGAAAAATAAGAAACTAT TATATGAACTGAGTTTAGCTTACACTTATTAATTT AACTCGAAATTAACACATTTAATTAAATGGTTATA TAGGGTTTTTTAGTTTTAAAATTTCAACCTGAACC TAATCTATTTAATAAAAAGATCAGATCTGATCAA CCCATATAATTAATTGGGTCAAAATCTCAACTCAA ACCCATTTATTTCGAATTAAATTCAGATCAAATTA GCAGGTCGGATCAACTAGCGCTAATTTTTCCTCT CAAGTTTTTTCATATGATGCCCCTTGTTTTCTTTGA ATAAAATTCACCAATTTAAAATCCCTGCCCTTGAT CCGTTGGTATTGGTATTTGGTAAAGCACATATGG TAAATTCTACTCCATTGTTATCTGTAGTTTTGGTT CTAAACCCCAAACAAATCCTACTCCTAGCACCACT AATCCTCATTACTTTCTGTTTGCTGTCTTTCTCTAC ATTCCTACTAAATTAAGACCTAGATGCAGTGTTAT

				TCTGTTCGAGGTTGCCGAAAACGGTACAATAGTT GCCTAATTTGCAATTCATGTTTGTTCTTGCGTTTT CTACATTGTTTACTCTATTGGAACAAAGGTTGAA CTTTCAGCCTTTCAGGGAGTATTTTGATTTTTCTG TCAAATTACCTTGCCAGATTTATTTGGCTATTTTG ATTGTGTGTATTTCTTTGTCCCTTGTTTCCATGGG GCTAAACTCCTTTTGGTTAATCTTAAACATTTCTT CTAATTTTGAATTGCAGTGGTATGAAGTGTTGTT TAATATACAATCAATTTTTCTGAACTGGGTTAATG AAGAGAAGCATTGTAGACATGAGGAATGTGTTC AAGCATCTCAAAACAACCAAATTAATCCCAAATG GGATCTTCAACTGTAATAGAGGTAAATCACATAT ATTCTCATTTAATGGTTATTGTTTTATTTTAAGGA TGTTATTATGTTGTTATCAATGATAGAAATAAGA GAAGCTTGAGCATTCAAATGTATCTATCACTCACT GGTTGTGGACATCTAAAATATGGACCAAGAGTTT TCTTCATTTCTTGTACCAGAATTTGCAAATGTATG ATTAAAGTTTAGGTTGGAGTTGCAATAAAATTTC ATTACCCCGACGCTATTAAGTGGCTCACACTGAG GCGGGGTTTGAGGGTCGGATGGTGCAACCTTCA GGAGAGGTTCTAAGCATTTTCAACATGTTCAACC GCAGAGGGTCCCGTAAAATTGGAGGCTTCAATA TTAAATTATGTAGTATGTGTTAAGTGTTTAAAGA TATAAAAATGTTAATGAATACATAATTTTTAAAAT TGCACAGGGCTTTCAAAGAAATTTTTGATTTTGCT CCGCCCATGGCAACCTTTGGCAAATCTGGATAGA ATTAGAGAAATTTACTTTTATGTATGTATAATCTG ATGAATGAATGAATGAACAATGAAGTTCATTTCT GAGTCAATGACCTATATACTATCGAGGTTTCGTT AAATAGGATATATAAATAAAATTAGAGACATCTT TTATCCCTAATGTTGTCTGTTTTCTTTTCTGGGCG AGACTGTTTTTGGAGAAAAACGTTATGTTGAATG CTTGATTTACTCAGAACTGATGCAAACAGATGGA TAAAAAATGGTGTTTTCCTAGTGTTTATGTTTCAT AAAAGGATTTCAAATTCCAATCGTATGAAGTTTG AAATACTGCTTTTTGTTTTTGTAGCTTCGTGTTTT GCTTTCCTTCACTCTTCACCAGGGAACGTTGTTGA AGTTTGTTCCAAGAAGCAAGAAGTCGTAATTGCA ATCGGGAGCAATGTTGGTGACAGATTAGAAAAT TTCAACCAAGCTCTGCAACAAATGAAGAAATTAG GCATAGACATCACAAGGCATGGTTGTTTATATGA GACGGAACCTGCATACGTGACTGATCAACCGAA GTTTCTTAACTCTGCTTTAAGAGGCTTTACAAGAC TTGGACCTCATGAATTATTAGGGGTATTGAAGAA AATTGAGAAGGATATGGGTAGAACCAAGGGAAT AAGGTATGGTCCTAGGCCAATTGACTTGGACATA CTATTTTATGGGAAGTTTAGGGTGAGCTCTGAGA GCCTCACTATCCCCCATGAAAGGATATGGGAAAG

				ACCATTTGTGATGGCACCATTGATTGATTGTATT GGGTCTGATGTAGAAAATGACACTATTTGTACGT GGCATTCATTATCAAATTTTTCGGGTGGAATCTTT GAAGCATGGGGTAAACTCGGTGGAAGCTCCCTA ATCGGGAAGGATGGAATGAAAAGGGTTTTGCCC GTTGGAAATCTCTTATGGGATTGGTCTCATAAAA CCTCTGTTATGGGAGTCTTGAACTTGACTCCTGAT AGCTTTAGTGATGGCGGAAGTTTTCAATCTGTCA ATACTGCGGTTGCTAAGGTTCGTCAGATGATCTC AGATGGGGCAGATATAATTGACATCGGGGCACA ATCAACCAGACCCATGGCAACTAGAATTTCGGCT GAAGAAGAGCTAGCAAGAGTAGTACCTGTATTA GAAGCTGTCAAGGATTTGATCGAGGAAGAAGGA AGAATCTTGTCAGTGGATACGTTTTATTCTAAAG TTGCTTTGGAGGCCGTCAAGAAGGGGGCACACA TTGTGAATGATGTCTCTAGTGGTAAACTCGATTC CGAGATGTTTAATGTTGTTGCGGACCTTAAAGTT CCTTATATAGCAATGCACATGCGAGGAGATCCGA CTTCAATGCAAAACTCTGAGAACTTGACCTACAA TGATGTTTGTAAGCAAGTGGCTTCGGAGTTGAGT TCTAGGGTCATAGATGCAGAATTATCGGGAATTC CTGCTTGGAGGATAGTTATTGATCCCGGCATCGG ATTTTCTAAGAATACGAATCAAAATTTGGAAATT CTTAGTGGTTTACAAAAGATACGGGAAGAGATA GCTAAGAAGAGTTTGGCGGTGGCTCATTGCCCCT TGCTAATTGGACCTTCAAGAAAGAGGTTTCTGGG CGAGATTTGTGAGCGCCCTGTAGCAGCTGACAG GGATCCTGCTACCATTGCTTCTATAACTGCTGGA GTTTTAGGTGGTGCAAACATTGTAAGAGTACATA ATGTTAGGGATAACCTTGATGCTGTCAAGTTATG TGATGCCATACTCGGAAAAACTGATTAACTGCTT GTTTGTACCACCTTGTGAATGATGTCTAGTGGAA GGTTCGATTGGGATTATGATGAAGTCCGTTAGTT TGCTCGAAAGAAGAGCTTTAGCCCGTAAGGTTAT AGTTCTTACAGATGTAGAATCATTGGCTATTTGC CTATTTCTGCTTAGAAGATCATAGCATTGATCCA GACTTTGGATTCCATGTAGAATTATGTTGCGACT CATGGTCGAATTGGCCCTTTGAGGAATTGTTGAA GTTCCTTGAGTCTATGGTTCAATCGGCTCGGTTC GATGAAGGTTGGACTGTGTCGAGACAAGATGGG TCAAAGAGACCAATGGACAAGAAGTCGACCTTG GGCAAGCTTGATCAAGTTACTTGGACGAGCAGA TAACAGCAGGCTCTGGCGAGCATTAGACATACAT ATCATTTGTTTTTTGAAGTCAGATCTGCAATCAAT CAGTTGCAATGGACAGACCATATACGGTTGTTAG TTGTTCCTGTCACTCTTTGAGTTGAATTAGATCAT GCAAACACTGTAAGAGTCTTGATTTTGTGAAGCT ATGTGATACTGTACTTCTCAAAATGAAATCTTTGA

				TATGATGTTAGCTTCAAGAGTTGTTTTTCCCCCCC TCACATTCTGTTCTATGTTGTATTGTTGTGTGCTTT TTGGAATTGTATTCCTGTAATTAGAATTATTCCTG CAAAATGGTATTCCTTTATATCATCAAAGGAGTTT TTGTACTTCTAATCATTGATCTTTAGATGCAAAAC TGAATTAATACAAGTGTTCTTGATGAAGGCTTAT TGAAGAACTCACTTTTTATTTATGTCTAAACTTGT TAAAGATGTTCTGCTTCCGCCCTTGCCACGGGAT GTCGGGATTGACTAAGGGTGGTAATCGAGGGAT TCCTATGCTTGAATTGACTCGTTTAAGATTTTGCG TTGATTTTAAGTCAAATGTTTTGCTAAGCATAAAC TATTCTAGCTCGACTTGAATAATGAAGTTTTCGA GTCAAGTCCGAGCTGTTCTGTAAGTTTATGTATCT TGAAGCTTCTTAGTTCTTACTTCTTATCCTTATTTG TTTGACACATTGAACCGCGTTGATGCTTGCTTGA CTCAACCCGTTAAAGTCTTGAATTCATCACGAATT CGAGTCGAGCAAGTTTAAACCCAACATTAACTAA GCTCTCGAGGCTTAATGAGGCAGGGGTAGCTCA AGTTTGTTATTCAAGCAACTTACCATAGTATTCTT TTAAAAGGCATATAGTCAGTTAGTTATTTGTTAAT TTCAGTAGAACGAAAGAAGTACATTATTAAACTT GGCCATTGATGCTTGAGCTAGAGAGCTTCGGTTG TGATCGAAACGAATCCTGATTTCGCTCTTGATCTT TGATGTGAAGTGACAAGGCCTTCATAAAACTCCT TTATTCTTCAGCAGTGCATACAAAAATCATGTGT GCCCAGCTCCTAGCTCACATACCGCGTTTTTCCCC TAATCTAGTGTGGTCAAATAAAAACAGCAAGATG TGTTGATGTCATGTGCAATAGTAATTATCAGGTG AAGTAATGCAATATGTAGCCAGTCACCTCATATC AAAAAAATGTTGGGAGGAAAACGTATTCGTTCAT CACTAAACCTGTGTTTATACATCTAACTGATCGAT CAGGGTTTCAAAATCCAAATTAATACAATGGCAT TTGACGAAGATATCCAGAACACATCCCCCTTGTT TCTGCTAGATAATCAACTATTCTGATTCTGCTGTA ATACCTCAGCTTCGGCCCTAGCCATGGGATCGTC CTCTTTTTCTCCTTCACGCTCCTCGGCCAGTTTCTT TCTGTGCAGTTCTTCAGCAGCTTCTATTGAAGCTT TGTTCTCGGCCTGAAGACGCTGCATTTCCTCTTCC ATTTGCTGCCTCTCAAACCATGTATCAGCATCCGC CCAAACTGCAGACAAGTATACAAAAGTTAAATAA CGAAAGTCTTCAAAACTGCAGATCCAGTGAACAA AGTCATTGTTGCCAATGCCCATGCAAACCGCAAA ACAGCAGGGCAAAAGAACACAACATTGCAGCAT AAAGAGCAAGTTCAGTGATCTACAGTTACTACAA AATTTAGGTTTGGGATACCAGCATGTCAATATGA ATGAATTTGCTAATACATGTAACCCAAGAACTAT AAGTCTATAACTAACAATTAAGAAAAGAAAACCA GAAGTTCCCTACCACTGGAGTATTAGCAAGGTAA

				CGACTGCCTGCTGATAAGAATTATTGGCCTGGAA GTCTGGAACTATGTGATGATCAACATGTGTTGCT ATTCTAGGTAAAACTAATCTATCATAATATAATTA AACTACAGGCCCCAGAATTGGGGTCCTGAGCTAT TGATCATGCTGTTAAAGCAAAAGAGTTGGGCTG AATGAGACTAGCAATTAAAAGCATAGGATACACT GAACAATGCTTCCCCCTCCCCATCCAAACACGTA GGTTTTAGTTACACAATAGTGGCTTGAGCTAGAA AACCATAAGGATATCATAGTGGACACATCATAGT TAAGTTTTACATAAATATACCTTATACATGTATAA GCAATACATTTCCAGGTTGATAGGTCAGTTTTAT GTCTATATTGATCGCCATTCTATTATGAGGGAATT ATATTCCAATAATGGGTAATCATCAATGAGCAGT ATTTATAGGAATTTATTGATAGCGTTTCTATTATT AGGATATAGAAATTCCAATAATAGGTAATCATCA GTGAGCAGTAATTGACTTATCAGACTCTCTGGCA GCATAGTGACAACATGCTGTTTGTGAAAAGGGG ATAACCATGATTTTGTCTTTTCTTTGCAAATGAAG CTCTTT
10	Amaranthus palmeri	gDNAContig	5240	ATTATATGTCATGTAATATAAATAGAAAATTATTA TTTAAATAATTAATTTCAAACTTTGTATCAATAAA ACACTTAATTTTTTGATTATTAGAGTGTATATGAA AAATATGTAAAAAAAAGTCGTACATAAGAAAATT TCATTGTAATTAAGACTAAATTTGATGAATCGATT CGTAAAATTGCTCTATGATCCTACAACCCACTTAT TTATTTCAATTAGGACTGTAATTAAGTTTAAATTT ACATTAGTTGAATTATTGCCTTTTATGAGAGATGT GGTATCGTATGCTATCTAAAGGCTAAAACTATTA AGTCGATTTAAAATCTATCCAAATTTTATACTTAA TTGAACTAGGTTGAATTGAACGGAGAATTAATCA AAAATGTACCACCCTTGAATCACTATCAATATTAA AGCAAACCAACTTTAATCCATAAATGAAAATCAA CTTAGTCAAATCACATATGAACCCGTCAATCATG CCAAAAACTCTGAGAGTGTTTGATATTATAACTT ATTAGAAAATTTTAACTTATTTGACGCAAATAGA CGGATAAGTGTTCTAACCATCTAGCTCTAGTGTTT CGCTTAATAAAAATAAATAATTTTTAAACATGCTC CTATAAATCAACTGATCAAACCGGTTTATAAAAT CACCAACTAAATCGACCCATTCAAATCAAATACC AACTCGGTCGTTTGCCAAACACTTCGCTATGACTT CAATCAAACAAAATGCAACTTGTTTGCTGCTACC GACTTACCGCCTTACCCAGTACGCGGAAAAGATA ATCAATGAGAATCAAATTCAAATCTTGACAAGAT AATATGATTATCCCATTATTATCAATTTAATTATG ATTAACCTTTTTTAAGATAACCTAATAATTCATTG ATAAGAATGATTAGCTTGTTTAATCAACTTCAATT TACAATTTCTACCTTGGAAAATTCAAACCAAAAA GTGTAAAAGAATTGATTTGGCAGATTGCGACAAT

				TGGATTGAGAAATTGACAAATTTAAACTGATCTT ATGGTAATTCAATCCATAACCCACCTTTCACCAAA ACTTGCATTGCCATCGCCATTGTCAATTTCCGCCA AGAACTACCCAGTAGCTGTAATGGGCAACATTTC TGAGCGGGAAGAACCCAGTAAGTCAACCTTTCTT CATATATCTTAAGCAATCCCTTTTGAACTACACTT TCTTTTGATGATTTTACATTCTGAATTGTTTTTATT GGGGATTTTCAGCTTCTGCGAAAAGGGTTGCTGT TGTTGGTGCTGGAGTTAGGTAAATTTTATGTTAC TTTTCCAGAAAGATTGTGAAATTTTGCTTTGATTG TTCTGAATTTTGATGGGTTTTTGCATAATGATTTG TATTTGGGATGGGCAAATTTTTCAGAAGATCATA CTACTTTTTAACTTGTGTTTTCTGTAGAATTTTATT GATTTTCTAAACTGTTTTTGTGGGATTGTTCTAGT GGACTTGCTGCTGCATATAAGCTAAAATCCCATG GTTTGAGTGTGACATTGTTTGAAGCTGATTCTAG AGCTGGAGGCAAGCTTAAAACTGTTAAAAAAGA TGGTTTTATTTGGGATGAGGGGGCAAATACTATG GTAATGTTTATCAACAATGCTGGTTTTCTGATATA GAACCAATTACTTATTTATTAACTGGATTTTTGGT CAAACCTGTGGTTGGCATGTCACTTTATGCTATG ATTGTAGACAGAAAGTGAGGCAGAGGTGTCGAG TTTGATCGATGATCTTGGGCTTCGTGAGAAGCAA CAGTTGGTAAGTTTTCCGTCTAAGCCCATTCCCTT TGCTCTCTAGGTGCAAAAATACGGTAATAGTCAT GATCGTGGTAATGACATGGTGATGCGGTGACGG GAGTTATGTGATCGCTATTCCAACTATAGGTCGA AAACATGATATTTTCCTTGTGACGTTCCGAAATG CGGTATTTTTACACCTTTACATTGCGGGGAAAAA TAGGTTTAGTTTTTTTGAATACCTTTACAAGGCGG CTGATGCGATGAAGCCTTGTTTTTGCATTATGTG CTAGAAGCAAATTATTATATCTTTAATTAATGTAA TGTATCATCAGCTTAAAACAGCCTTATTGTACTTC TTAATCTAGTTTTGACTTTTGAGGTTGCTTTTACG AGATCCTTATAAATTGCTTTTTCTGTCACAGCCAA TTTCACAAAATAAAAGGTACATAGCTAGAGATGG TCTTCCGGTGCTAGTAAGTCCTCTGCATTTTCTTT TGACCTCTATGAACTTCTAACACTGGATACTGAG TTGTATTTGTATTCGAGGCAAATTCTATATTTTCC AATCTGTTTCTTATTGACAGTTACTTGCAACCTTT GCAGCTACCTTCAAATCCCGCTGCACTGCTCACG AGCAATTTCCTTTCAGCAAAATCAAAGGTTATTTA TGCTAAAACATGTTTGTTTGTTTTTTTTTAACTTAG CTTTTGGTGTATGCAATAATTTGGTTTCTAAAACT AAGTGATTGACCGAAAAGGAGGGACAAAGGAC ATAGAATTGCAAATTTTTGTTCTTGACGTATTTTT ACTTTTAGAGCATCCCCTTGTGTAAAACTTTTATT TTAGAGCTGCAAGAATTTGTTGCATCTTTTGTTAT

				GATTTAATTTTGATGCTTTTAGCTGCAACAGTTTG TTGATAAAAAGGCCACTGCTTTTTTCTCAGCTGCA AATTATGTTGGAACCATTTCTCTGGAAAAAACGC AATGCTACTGAGCTTTCTGATGAGCATGTTCAGG AAAGGCAAGTGCCCTTGCTCTATCTATACTGATG GAAAGGATTATCGCTGAATTTACCTTCTACTGAA ACATCAATAAAATACTTCATTATTAGCATCAAAAT ACTCCCTCCATCCTTCTGGTTTTGCTGGACTTTCC CTATGAAGGTGTTCAAGGAGTAGCTTGCTACCTT TCAAGATAGGGTAGTGGTTGCCTTCTCGCAAAAT TTCAGTCACTCGTTTTCCTCTCCTAATTCAAGCCA TACTTTTTATGGTTCCTCCACACAACTCTTGCTAA ATTTGAAAAGTAGCAAAGAGGAAGTGAGCAAAA TCAGCAGGAGTAGGACTGATGAGTAAGAGCTTG ATCAAGTATAAAGGATATGTTTCTATGTAGAATA TGAATGCATTACCTGTAGAATTGACATAATGATT TGTCTGCAGTGTTGGCGAATTTTTTGAGCGACAT TTTGGGAAAGAGGTATTGTTGCCAACTTGCCATG CTCTATTCCGGTGAATTAACAAATGTTGCGCTTCT GCTTACTATTGCTTATAATTATTGTTTTTTTGCAGT TTGTTGATTATGTTATTGACCCTTTTGTTGCGGGT ACATGTGGTGGAGATCCTCAATCGCTATCTGTAA GTTAAATACTGTGCCTTCTTTTTTTTTCTCAAAATT TTCTGGAGGTTGTAAATAAATTATACTCCCTCCTA TTATAATCAACTGTCCTATTTCCCCTTTTGGTATAT TCAAAGTGAGTTAAATATTGCCATCCATTAAATTT CACTTTGTCCCTTACTTATTTTTTCCCTTACTCACT CCTCTCATGTGGTCCCTTAAACTCGGTGCATTACC AAATAGGACTATTGATTGAAATAGGAGGGAGTA TCCGATTGTGCTTCCAAAGGTAGTTCAACTCCTCT TCTTTTTCTTTAAATTTTTGTACCATACTGTGCATT TTGAACCTTAACTCATTTCGCCATGAAGGAGTAT TATATTTGAGAAGAACGCAGATACTATTATCTTAT ACATTAGGTTTCATTATCAATGATTGTTTGATTGT CAACTCCTCTTTTCCCTTTCATGCTCATATTGATGT TATTTCTATTTGGTTATGAATTTTGTGTATTGTGTT AATGTCTTACTTTATTGTAGATGCACCATACATTT CCCGACGTATGGAATGTTGAAAAAAGGTATGAA TCTTAAAGCTTTAATTTTCTTCGAACGTTATGTTTC ATAATTGATTCTTTGGGATCAATTTCCGTAAGAA CGATAATTTGAAAAAATTTATGAACCTTCAAGCTT TCTTCGAATTTATATGCTTTGTAATTCATGCTTTTA GATGCTGCACCATTTTATCTATGTGTCTTAAGTTT GGTGTAATCATTTGTATAGCAAAAGAATGAATGG TCTGGTTTGAAATGGTTCATAGTGCAAAATGTGA TTGTGCTTGCGATTGAGGTAACATTCAAGGTGAT GCGATTGTCGTACTGTCAATTGTCGTCCTATACCA TGTGATATTTGAATAAGCCTAAAATGCCATATTG

				TACACCTTTAGGATGTGGACAAAATGGGTTCGGT TTCGGTACATATGACAAATCCTTGCAATTTGATCT GTACGATACAATGCGATTTTGTCTTTTGCTTTATG ATGGTGATTCCATATGCGATTTTAGGGCTTAGAA ATTTCCCTTGTTCAAGAACATCTCAATCAATCTTT AACCAATTTCAACCACATTAAATTGCGTCAAAGT CGAACTTTATAATTCACTCCCAATCTCTGAGATAT CCAAACTCCAAAAGTTCTATTGGCTTTCATGTTTT CACAAAGTAACGTTGGTGGGACTCCTTACCATTT TCTTTATTATGCATTTCGTTGATGTATAATAGTAT AGATTGGTGCTCTTTTCGCTGTCCTTCTAACATGC ATAACTTCACTAGTTCTTATCGTTTTCTTTTCCTCC CTATTTTTATTTGACTTGTAGCTATCTATGTTCACT CTTCTCGCCCAATCCAATGTTATCTTCTACTCCAT GCTTGCAAAAGCCACAAAATGCTCACTCCACCAA TAAGAGGAAATTGCCAGTCCACCACTTGCTGGAG GCATCCATGGAAGCTGAAGTATTTTTGTCCTCTA CTCATAGGATGCATACATGCATCGATTTACTTTCT AATACTCCTTTAACTTGATTCCGATTAGCTCTGCT CTTAACAGGTGTTGCTAGAAAACATCAACTATTTT CAGCATAAATTAAATGTGAGCATTACCTAATAAC GTGAAAACTATCAAATCTTGTTTGTAGTGCAATA TTGCGTTTTCGGTTGCGGTTGCATTTACGATCGC AAAGCGAATTTCTTGGTCAATGTGGATCGTTCTG CACTTGCCTACATTCCATCATAATAAGCTCAAATT TGTTTCATTGTATTTTCGTAACAAGAACAAAATTA TTGTGTAATTCTTCCCTCA
11	Amaranthus palmeri	gDNAContig	2936	TCAGATATGTCTTCATAAAGTATTCAAGTTTGAG CATGAAAATCCACATGTACATGACATGAGTATGC AAATGCAAGTAATACAAACACATAGGCAAAAGA GATGATGTAATCACTATTCGGTAATCGCTCGCGC ACAAATAGTAGCTCACTATATGAATGAGATGAGA AAATTTCAATTGTTGTAAAGGCGAGTTCCTTATG TTTTAGTCCAACAGTGTTTTGTAACCTTTGTGTAA TTTTTTATATGAAGCACAAGAGCAGGTCTCAAAT AAGTACAGGAGATAAATGAAACTAGAAATAAAA GTGTTCAATATACTTGGACATAGTCACATAGTTA ATGCCAAAATCCATCTTTCTGATAAGTTGGGGCC ACTTATACACTATACTAACATGAGCCTGGAAAGA AATAGCCAGCAGGACCGCAGGTATAGATTGTTA GCTAGGAAAACCACAAAACCATACTCCCTCCATA TTAAAATGACATTAACAAGTGATTAGTAATGTAA TAACCTACTTACATATTCTAACAAGTGATTAATTT CAATAGTATTCCGACAAAATGTAGCTTTAATAATT ATCTTCCATCTCATCAAATTTGTTTGGGAAATTTG TAACACTGATCAATGACTCTAGCACAAGGAATAG CTAAAATTATCATCATCATCATGATCATCTTGACT AGTGTATCCCACTCATAAGGAAACTATGATCAGG

				GTCTGGAAAGGGAAGGAAGGCGACAAATCATAC CATAAAGGGAGTTTAGAGGTAATGAATACCTAA ATCCTGATCCTAAAACAATTGATCTTCCCCATTAC CACGCCAATATCAACCCACAAAGCATCCGGGGA AAGTCAAACAAAGGGAAAAATCACAATTGAAAT ATCCTAGTTTCAAGTTTCAACCAATTGGGTACCAT TTACCCATGTTCAAGTGTAGCAAAAACCCTAATA TAGCATCTTAATACAGCTCCAGTAAACATTATGC AGTCTTAATCTGAAGCTACTATACCAAAACGACT AACATTTAACAAATGCCATTCCACCATTAAAAAA AAGGGTGTTTTAGCGGTAATGAGTTGATCGGTC AATGTCAATCCGAGTAAGAAAAAATTAACACAAT GCAAACCCATTTGCCATGTTTCAACACACAAACA CAAAACACTGATAATTCCACAAATCTGATACTAC AAGCAGCACAACAGTCAATTGCAAACATAACCAA AAAAAGCTAAATAAACAGCAGAACCTGGGATCG GAAAAGGGTGGTCGGCGTCGTGAACAAACTAGA GAGAGAAAGATGAATATAGAGAGATAAAGGAG TGAGAAAGAAGGAAGGAGAGTAAGCAGAATGA AATGGGTAGTGTGGAGTGTGGAATAATGGTTGA AAATGAAGTGTGGCTCTTCCATAGAGGATAGGG ATGCTGAAATTGAGTGGTGAATAAACAATCTGAA CAAGATTTGGAGAATGCAAAAGAATCTCTGGACT AAATTAATGGAAAATCAAATTGTATGTAATGATT TAGATATTTAATTAGGGTTCTTGTTTGTGTCTACT CATTCTGTCACTCACATGCATGCTCATTGTTTGTA TCAATCTAAAGCCAAGCATTGACTTTTTGGGAAA GCCAAATAGAGAAAACAATATCCTAAAGGGGAA ATGGACTCATAAAACGTGATTGTTACTCCCACCT ACAGATGTTCATTCGGGTCATCGAGTTGATTTAG GGTCAGGTGTTTCGGGTAGGTTCAAAATCGGGT TTTGTGTTCACATTGATTTTTACATGATTTTAAATT CATATTGACGTCGGGTCAAGTCGGATTAGATTAT TAACTCGGGTAAATATCGGATCATCGGGTCTGTT TTGAACACCTCTAGTATTTTCCAAGTTTTGTTGTA TCACACATGCTTGTTGTGGATGACCTAAAATTCTT TACTGCTGAAACGGGACATTCTGTGTTGCGTTAC ATTTGGTTTTTAGTAGAATATAAGTTTCGGTGGG TTGTTAAGGCAAAAAACAAGCAGATGAGAAGAA ATGTGTGGCTGAGATGAATAGAGAGATTTTTGC GGATAGAACTAGGAAAGGGCACGTGGGTTCATA TCCGTAAGTAAAAAGTTAGCATATAACTATAGAA CACCGAAAAATGAAAAATGTAGCGAATTGATAA GTGATCATATGCAATATAAAGTTCTGGTGTTTTCT GATATATTCTTTTGTGACTAAATTGAACGGGAAA CCATCAAAAATAATCGTCTGTCAAGGTATTGAAA ATCCTAACTTGGGCTATCGGTGTAGGTAACCATA AGGGTGGACTTTCAGTGGGAAAAGCGATGGCCT

				CCGGATGCAAGGCTGCGGAACTTGTAATATCCTA TCTGGACTCTCATTTATATGTGAAGATGGATGAG AAGACCGTGTAATTCTTCTCTGGGAACGTCCCCT GATTTTGCGTCTGTATATCCGATGATATGTCGTTG GATTGATCACGATTGTAGTCACGTTTAGGAGTTG TGCAGTGACTTTTCTGCCTAAAGACTGGATCTGT TAGAAACAAATAGTCTATAGATAGTTTCTTTGCTC ATCAGGTTATCTTTCTTACACCAGTTGTGTATACA AATGTTGCATAGCCTAACCTAAATTCTAAAATGC CATTCCCTTTTATATAGGGTCATGTTTTTTGCATTT ATGAATGGTGAAATTTTAGATCTTCACTGAGAAT AAAGGTTTTGGCAATTTCATAATGGTGCTTATTA GGGGTATTTAAAACCGGATATTGGCAATTTTCAT TGATAATATTGTAATGGAAAAATGACGTTAAATA TCTTTTTCGGTTTACGTATCGAAAAATAGACAAA AAGGTACTTGTTTCGACCAGATTTACAAAAGAGT TATCCCATTAGGTTAATCACGACGTCCGTTTTTTT GAAAAAAAATCGTTA
12	Amaranthus palmeri	gDNAContig	1923	TAAAAATGACGTTAAATATATTTTATTTTTATTTT GTTAATTTATGTGTTTTAATTATAAAGTATTAAAA AATACGATGATTAATAAGATACTGCTACATAGAC AACTTAACCTCTCAAATTGGTCAAACCCTTAAACT TAACGGTTAACTAACGTTTTCCATTAAGTGATAG TCATTTGCAGAGATTTATATTAGATTAGGTAGTTT TTTGCAAAAAAAAAAAATTACATTAGGTAGTTTTTT GCAAATAGACCTATAGATTAGGCAGTTTCTTATA ATTTTTCCTTCTTATTATTTGTTGTTTCAGATATGG CTTCAAGAATGAAGTTTGGTAACCAAACTTTTCA AATTTGAAGTGAGGGTTGGAGCTCTGGTGTTGG AAGCCTTTTTTGTAACACCCCAAAAATTTTAGGCA AACTTTATACGTTTGTTTATCCAAAAAAAAAATAA TAAATAAATAAAAAAAAAAAAATTCTTAAAGTAG AACCACTTAAGGGTCGGAGGTCTAGGTAATAATT TTGGAGTGATAAATGTAAAGATTGAAGAGTTTGT AACTCATACCATTAGTTCACTCATTTACCTCAATT TATGATTATAATTAAGTATTACAAAAAAAAGGGG AAACAATCACTTCATATTCCAAAGGTGAAGCTTTT AATAGTGAAGGAAAAGGATTTCTTAAGCAATAC AGTATTAAACGTAAACTAAAAAAAATAATAAATC ATATCTTAATTTTGAGAAGTTTTATTCTTAATTTGT TTATCCCTATCAATACTAAGCTTGGGATAATAAAC AAAGGGTTATCAAGGTTGGAGGATTTTTAATTTC GAGATTATATACTTGAATTGAAGAAATTTTATGT TCAAGAGAATTATATTAGAGGAATATTTGTAAGG CTATTATCTACAATTCTTCATATTTCTCTAATTGAA ATATATATAAAGGTAACTAGTTTACCCTCTCTTTT CTTAATTCATATACATTGTTATTTTTTTTATTATAT GGAAAATATAAAACGGAAAAAAAAATGTAAATT

				AAACTTATCTTAGTTTTGAGATAATTGATGTTATA TAGTCTTATAATGTTGATTAACGTTGAAAATTGA ATTACAAAACTAAATAATTTAAACATATGATTTGT TAACTTCTACTAATTAAATCTTGGTTAGGGGTGA TTTAGTTGATTTGAGAAATATCCAAATAAATAATT AGATTAGTTTGGTGAAATAATATTTTTTTTTGACT TCGAAAACAATGGGTTAATTTGGCACACTAATTT GGAATGTACAAATAAGTTCATTAGAGTAGAGCTT CTTAAATTATGTTTTGGTATAGTTAAAAGTGATGT TAATGTATGGTTAATATTTTATAAATATTTTATAT ATTTTGTTTAGTTGAATTGGCCACTTAATGAATTT GTACATTGCTGTTAAAAAAAAAGAGAGGATATTA ATCGTTTGGTACAACAGCATAATTGAGCAAATCA TAAATCTGCCAAAATTCAAGTAATTAAAAATAAT TATCAATTAACAGTTATACAAGTGTATGTATGTG GCATTAGCCTAATTGATTGCGCAAGGACTAAATA ATTACTTATTCAGGTAATTTAGTATTTTATCCAGG TTAATTAGAGGTTAGTTGAGTTGATTATGATCAA TATTTTGGTTAAATATAAATTTTGGCAAAGAAAA ATGAGTATTAATATTGTATTTATTTTGAGACTCGA CAATTTTTAGTTGAATTGTTACTTTCTAAGATGTT AAGAGTGTTGTTGACATAGTTGTACTTTTGAGTA GAATAACACTATCATTAGTACCTCTTTGCCAAGA GTTAGTAATAGGGTTGACTTTTGTTGACTTAGTC AAATTTATAGTTGACTTTATTCCCAAACTCAGACA TTACTCATAACATCAATTTTGGTATT
13	Amaranthus palmeri	gDNAContig	2787	ACATAAAACCGCTACATGGAGGCACGGTTTTGTG TCAAATGTAAACCACTACTCCATGTAGCGGTTTG GTGCACATACTTTTCAACTCTCAGTGTGTTGCTGA CGTGGACGGTAGTGCGGGAATTATTTTACAAAG TAACGTAAAGTGGGAATTTTTTTTAAATAAGCTG CATTTTGGGCAAAGACTCTACTTTTACTTTTAATT TTATTTTTAATTTTAATAAAGAAGGAAGAAAAAA AACAAATGTATTTATGGATAAAGAATCCTTGATT TGAAGATAGGATAACCAGAGAGAGGGCAAGAG AGATGAGTGCCATGGCGTTATCGAGCAGCATTCT ACAATGTCTGCCGCACTCCGACATCTCTTTCCGCT TTTCTGCTTATACACCAACCCGCTCCCCCATCTTCT TCGGAAGACCACGAAAATTATCATATATCCATTG TTCCACAAGCTCAAGCTCAACTGCCAATTACCAG AACACGATTACGACCCAAGGAGAAGGAGATAAA GTATTGGATTGTGTAATTGTTGGAGCTGGTATCA GTGGACTTTGCATTGCTCAGGCTCTTTCTACTAAA CACATTCAATCCAATCTCAATTTCATTGTCACTGA AGCTAAAAATCGTGTTGGAGGTAATATCACTACC ATGGAGTCCGATGGCTATATCTGGGAAGAGGGT CCTAATAGTTTCCAACCCTCCGATCCTGTGCTTAC TATGGCGGTAAACTCATTCTTCTCTCTTTCTCCAA

				TTTTTGATCATTCTATTCAATTTTCCCCTTATTGAG TCAAAATCAAATTCCAGGTTGACAGTGGATTGAA AGATGATTTGGTCTTGGGAGATCCTAATGCTCCT CGTTTTGTGCTCTGGAATGGTAAATTAAGGCCTG TTCCTTCCAAACCTACGGACCTTCCCTTTTTTGATC TCATGAGCTTTCCTGGTAAGATTAGGGCTGGTCT TGGTGCACTTGGTCTTCGTCCTTCTCCCCCTCCTC CTTCTTATGAGGAATCTGTTGAAGAGTTTGTGCG CCGTAATCTCGGCGATGAGGTCTTCGAACGCTTG ATCGAACCCTTTTGTTCTGGTACCTACCCTGTTTA ATTTTTCAGTTTTCCCCCTTTTTTCTCTACTACTCCT ACTTTATTGATTCTTATCTATGAGTGTTCTATGGG AATTGACATTAATTGTTCAGGTGTGTATGCTGGT GATCCTTCAAAGTTGAGTATGAAAGCTGCATTTG GAAAGGTCTGGACCTTAGAGCAAAAGGGTGGTA GTATCATCGCCGGTACACTCAAAACTATTCAGGA AAGGAAGAATAATCCTCCACCGCCTCGAGACCCG TCCGTAATCACCATTACTCATTGCTTTCCTTCACCT TGTATCTTACCTTAATATACATGTATTTAATTGAT AATGTCACATTGCCTCATTTGCAGCCGCCTTCCTA AACCTAAGGGCCAGACTGTTGGATCCTTTAGGAA AGGGCTCATTATGTTACCTACCGCCATTGCTGCT AGGTATCTTTTGACTCTCAAATCTTAAATATTTCT CATCTTTTCCTTCTGCTAATACTAGTATGTTTACCA TCTTTTTATTTTTTTAGGCTTGGCAGTAAAGTCAA ACTATCGTGGACACTTTCTAATATTGATAAGTCG CTCAATGGTGAATACAATCTCACTTATCAAACACC CGATGGACCGGTTTCTGTTAGGACCAAAGCGGTT GTCATGACTGTCCCTTCATACATTGCAAGTAGCCT GCTTCGTCCGCTCTCAGTGAGTATCATTCTTTCCT TCATTTCTTTTCGTTTATTGCTGTCCAATGTCTTGT TAAACACCAGTTTGGCCTTGTGCTCGTGAATTAT GGCTACAATGTTAACTGATTCTGTGATTCAGGCA CTGTGGGAGATGCCTAAGTTTCTAAAACCTCTGC GCATAATGTTTGTTTGGATGTTAGGAATTGCATT GAAAAATTGCTTTTGTGATGTTGATGTTAATACC AATTACAAGTGTGTTCTTCAACTTCTGCAATACCT TGTTCGAGTGAGCTTGAGGGGGTTTAGATTAGT GTCCAATGTGAAACTAGCAAATGAACTCCAAGCG CTGGGATAGGTCCTTGGGATGGAGCCCCTGATA CCCAAGACAGTATTCAAACCCTCTAAGTAGAGTG AGAGATCAAGGAAAGAAACTGGGTGGTTCCTCA AATCGTAAAAAATGAATACAGTGTCATGATTGCT AATCTTATCACAAATCGTAAAAAATGAATTATGG TCGATTTTGGACTATTTTTGGGTCATTTTGAGTGA ATCTCAAACTTAAAAAGCGAGTCTTCTAGCAGTT CTTGTTACAGCGGGGCATACATAGGTAGGAATTT GGTTTTTTACTATTTGAGCCTTTTGACTGTTGTGG

				CCGGTAATATGGAATAGTCTAGCACTTCTGCGTG TGTACAACTAGTATTTATTGTAATTATGTGATCGC ACTTAACTCTCAGATAAAACCTTAAGCACTAACAT TTTGTTTTGGTTGAAGGAATCAGGAGGAAAGAA AATTGAGGGATTTGTTGGTATATAGATTCCTTTG TTTGGATAACAAAATTGGAGTGGAGAGATTTGG AAGGAAGAATTTTATAGGGATTAGTTCCCATTAC ACTTATGTTGATTACAAAATTTCTCCAAAAGTGG AAAGATTTTGAGTGAAAATGTTTTTTATTTCTCTT CCTCTCCCTTTCTTTCCCTCTTAAACAAACAAGGA AAGTTAATCTTATCATTCCGTACCTTCCCCTTCTGT TCT
14	Amaranthus palmeri	gDNAContig	2379	ATTATTGTGTAATTCTTCCCTCACGTCTCTATTGTC TTCATTTTTTTAGAAAAATAAATAAAGCTTGGTTT TATAGATTTTGTAACTGATATGCAATACATTTGCG TTTGCTTTCAGTTATTGATTCAAAAACAATAATGC TAAAGCCCTAATCCTAACATGTTGTGTCATCTGTT GAAACAATACTTGAAATCGCTATAAAAAGGGATT TTTGTCGGGTACTTCAGTTGTTGAAATTGATATG GTCAAGTACAATTCATTTTAACCCAATTTGTAATG ATTTACTGGCTTGGTTTCTTAGCTGTTTGTTTTAA TAAAGGATTTTAGTTCGGTATTTGGTTGTTGAAA AAATTGATATGGCCAAGTAATGGTCATATTAACA CAATTGGTAATGTTTTATTAGCTCAATAGTGTTTG TTAAGTATGTGACTCAAATTTAATCAAGTATAACT TATTGAAGCGTAGTTCTTTTATCCATTAGGTTTGG CTCTGTGTTTGCTGGACTAATTCAATCAACATTGT TATCTAAGAAGGAAAAGGGTGGAGGAGAAAAT GCTTCTATCAAGAAGCCTCGTGTACGCGGTTCAT TTTCATTCCATGGTGGAATGCAGGTATAACCTTA TAGCCATAATTTCGCTTTTTATACCTTATACTTCCA AAATATATTGATGCATTTTCTTGCTACAATCACAA AAGCTTTGGGAAAAATTCTCAATTTTGTCAAATCT ACTAAAATAATTCATTTTGGAACCAAGGTTTTCTA TTTCAGAATACATGGATGAAGACATGCAGTAAGT ATGGATAAAATAATCTAGATGTAAAAGGTTTTTA GTCTATTAAGCAAGAATATTATAATTCAGAGTCG TTTCATCAATAAAGTGTTGTTTAAGTGCAGCAATT ACATTCTGCTTCAAGCAAAGGCTATCTTAAGACTT AAGAGGCTCCCAAAACATGAGGAGGTATGAGAC CTTAGAGGCCAAAGAAATAAAATTTGATGAGGA GACTTGGTGAGATACCTTGCTTCCAAAAATGATA TATTTTTCCCCTTAGACACCTCAGATTATGACATT TATAAGGTGTCCCTGCGTATTCGACGAGATTTTA CGACCTATACTCTAAAGTCTAAATTGAGTGAGAA ATGTGTATATGTGTAAGAAAGGAAAGTTAGTACC ATGAATTCCATGTCTACGACCTCAAAGTGTTCATA CCATTGAAATTAGTGAGCTTACAATTGTTAAGAA

				AGCATCAACTATTCATAATTGATCATTGATGAAG TGTGTAATAGACATGCTAGGTGAAATTCGAAAG GGATCTACTCTGTCTTTGAGTTTACAATTTGCTTC TAGTTTTTAGCTATTTATAGGTGCTATCAAAGGG TTGAATATTGTTTTTTCTGAACATTGTTGCCGAGT TGTGAAGGGAGAATGATGGTAGATTTCTCTTAAT GAGAACATTCTCTTCATAAAGAGTTCGATAGCGC AAAAACGAAAGCTTATTGCCAAAAGTGGCTGGG GTAGATGAAAGAGAACTGCAATTGATTTTGCTAG GCTTGACTTTGAGTAAAGAATTCATGGCATAAGG TAGAAAAATAGGAGATGGCTGAATGATATCGAA ACCTTTTGATTCTTTTTGTTTTGTTTGCAATGCACA GAAAGGCAGGACGGGAAAGTGTGATTAAATGG ATGGGAAAAATTGCTAGAATAGAAAAGAAGAAA GATGTAGCACTCACGTGAGGAAATTACCCAATAT CTGAATGGAGCTCACACTCCTCTCTTCCTCTACTA ATATACAACCTGCCTAATTTGCACAATAGCTGCTA ATATCATAGTAGTATGAGATAATGGCTGGATGTC TCAATTGTTACCCTAGTTTTGACAACTATTTTACG TTGGCATTTCGGTGGCCTGGGGCCGTGGACTGA GTCACCTTAAAAATTCATCTGTGATATAGTTTAGA ATCAATTTTGAAAATTTAGGCAGGCCTAAATTTT GATAAAGATAGCATGATCTAAAGAATGCAGCTCT AATAAATTTACATAAAATTTGATATTAAGTAGTCT CTGTCTAGGCCTGCCTTCCGAGCTTGTATATTAAC TGAGCGCATGTTTATTTGAGGAATAGCATAGGA GTCATTTTTTTGCATACTAATTAGCATGTCAATTT TATTCCATTTGCTGAGTACTGTATGTTCTGCAGAC ACTTGTTGACACAATGTGCAAACAGCTTGGTGAA GACGAACTCAAACTCCAGTGTGAGGTGCTGTCCT TGTCATACAACCAGAAGGGGATCCCTTCATTAGG GAATTGGTCAGTCTCTTCTATGTCAAATAATACCA GTGAAGATCAATCTTATGATGCTGTGGTTGTCAC TGTGAGTTTTT
15	Amaranthus palmeri	gDNAContig	760	TCAAATTGGTCAAACCCTTAAACGATCAACTAAC GTTTTCCATTAAGTGGTAGTCATTTGCAAAGAAA TATATTATATTATGTAGTTTTTTACAAAAAAAGAA AACTACATTAGGCAGTTTTTTGCAAATAGACCTAT TAGATTTTTTTTTTAATTTTTCCTTCTTGTTATTTGC TGTTTCTAATGTGGCTTCAAAAATGAAGTTTGGT AACCAAACTTTTCAAATTTGAAGTGAGGGTTGGG AAGCCTTTTGGTGTCCCTTCTATTAAGAGTTGGG GCCTCACAATCACTAGATAACGTGCCTTTCTCTCA TGCCTTACCTTTCTAATTCTTAGAATAGAAAAAAG ACGGTGAATTTTTTATACGCTGTATGATTACATTT TTTGAAATCTCTCCGATCATCTTGATCATGGGATG GAATTGTTCGTGCACATGTTTTTTAAGAATGGAA TCTAAGCATAGTGTATTAGAGAGAATGAGTGAA

				AGTTAGTGGAAAGAAAAATTGAGTTGGAGAATA AAATAAAAAACAAGTGGGTAATAGAAATAAGTG GTTACGATGAAGAGGGTGTATAAATTTGTAGAT AAGATTAAAAGGGGTGGGAGTACCATTGTTATA AAAGAAAAGAGTGCAAAATCCGTTGGACGAATT TAAATAAAAAGTGGTGTAAAATGAAAGGAACGA CAAGAATATGATTTTCCCAGCTATAACACTGTCAC AAATGTAATTCATCAATATCTTTTCAACATTTCTCT AATAATT
16	Amaranthus rudis	cDNAContig	1872	GCGAGAGAGATGAGTGCGATGGCGTTATCGAGC AGCATTCTACAATGTCCGCCGCACTCCGACATCT CGTTCCGCTTTTTTGCTCATACACGAACCCAATCC CCCATCTTCTTCGGAAGACCACGAAAATTATCAT ATATCCATTGTTCCACAAGCTCAAGCTCAACTGCC AATTACCAGAACACCATTACGAGCCAAGGAGAA GGAGATAAAGTATTAGATTGTGTAATTGTTGGA GCTGGTATCAGTGGACTTTGCATTGCTCAGGCTC TTTCTACCAAACACATTCAATCCAATCTCAATTTC ATTGTCACTGAAGCTAAACATCGTGTTGGAGGTA ATATCACTACCATGGAGTCCGATGGCTATATCTG GGAAGAGGGTCCTAATAGTTTCCAACCCTCCGAT CCTGTGCTTACTATGGCGGTTGACAGTGGATTGA AAGACGATTTGGTCTTGGGAGATCCTAATGCCCC TCGTTTCGTGCTCTGGAATGGTAAATTAAGGCCT GTTCCTTCCAAACCTACGGACCTTCCCTTTTTTGA TCTCATGAGCTTTCCTGGTAAGATTAGGGCTGGT CTTGGTGCACTTGGTCTTCGTCCTCCTCCTCCTCC TCCTTCTTATGAGGAATCTGTTGAAGAATTTGTG CGCCGTAATCTCGGCGATGAGGTCTTCGAACGCT TGATCGAACCCTTTTGTTCTGGTGTCTATGCTGGT GATCCTGCAAAGTTGAGTATGAAAGCTGCATTTG GAAAGGTCTGGACCTTAGAGCAAAAGGGTGGTA GTATCATAGCCGGTACACTCAAAACTATTCAGGA AAGGAAAAATAATCCTCTACCCCCTCGAGACCCC CGCCTTCCTAAACCTAAGGGCCAGACTGTTGGAT CCTTTAGGAAAGGGCTCATTATGTTACCTACCGC CATTGCTGCTAGGCTTGGCAGTAAAGTCAAACTA TCGTGGACACTTTCTAATATTGATAAGTCGCTCA ATGGAGAATACAATCTCACTTATCAAACACCCGA TGGACCGGTTTCTGTTAGGACCAAAGCGGTTGTC ATGACCGTCCCTTCGTACATTGCAAGTAGCTTGC TTCGTCCGCTCTCAGATGTTGCTGCAGATTCTCTT TCTAAATTTTACTATCCACCAGTCGCAGCAGTGTC CCTTTCTTATCCCAAAGAAGCAATTAGACCAGAA TGCTTGATTGATGGAGAACTAAAAGGATTCGGG CAATTGCATCCCCGCAGCCAGGGTGTGGAAACCT TGGGTACAATTTATAGTTCATCTCTTTTCCCTGGT CGAGCACCACCCGGTAGGACCTTGATCTTGAGCT

				ACATTGGAGGTGCTACAAATCTTGGCATATTACA AAAGAGTGAAGATGAACTTGCGGAGACAGTTGA TAAGGATCTCAGAAAAATTCTGATAAATCCAAAT GCGAAAGGCAGCCGTGTTCTGGGAGTGAGAGTA TGGCCAAAGGCAATCCCCCAATTTTTAGTTGGTC ACTTTGATGTGCTAGATGCTGCAAAAGCTGGTTT GGCAAATGCTGGGCTAAAGGGGTTGTTTCTTGG TGGTAATTATGTATCAGGTGTTGCCTTGGGGAGG TGTATAGAGGGTGCTTATGACTCTGCTTCTGAGG TAGTGGATTTCCTCTCACAGTACAAAGATAAGTA GTCAATAGGGCTCCAGCATCTTGGTTAAGTAACT TTTTGTAGCTGTTGTAATTTGGAAAGATGTAAAA TAGCCCACACTCAAACAAGTTTGGAAAGATGTAA AAGCATGAGATACAGTCGGTGTTCATTGAGAGG ATAGATGCAAATAACTTGGACGGAAAAAAAAAG AAAAAAAAACAAAACATGTCGGCCGCCTCGGTCT CTA
17	Amaranthus rudis	cDNAContig	1605	ATGGTAATTCAATCCATTACCCACCTTTCACCAAA CCTTGCATTGCCATCGCCATTGTCAGTTTCCACCA AGAACTACCCAGTAGCTGTAATGGGCAACATTTC TGAGCGGGAAGAACCCACTTCTGCTAAAAGGGT TGCTGTTGTTGGTGCTGGAGTTAGTGGACTTGCT GCTGCATATAAGCTAAAATCCCATGGTTTGAGTG TGACATTGTTTGAAGCTGATTCTAGAGCTGGAGG CAAACTTAAAACTGTTAAAAAAGATGGTTTTATTT GGGATGAGGGGGCAAATACTATGACAGAAAGT GAGGCAGAGGTCTCGAGTTTGATCGATGATCTT GGGCTTCGTGAGAAGCAACAGTTGCCAATTTCAC AAAATAAAAGATACATAGCTAGAGACGGTCTTCC TGTGCTACTACCTTCAAATCCCGCTGCACTACTCA CGAGCAATATCCTTTCAGCAAAATCAAAGCTGCA AATTATGTTGGAACCATTTCTCTGGAGAAAACAC AATGCTACTGAACTTTCTGATGAGCATGTTCAGG AAAGCGTTGGTGAATTTTTTGAGCGACATTTTGG GAAAGAGTTTGTTGATTATGTTATTGACCCTTTTG TTGCGGGTACATGTGGTGGAGATCCTCAATCGCT TTCCATGCACCATACATTTCCAGAAGTATGGAAT ATTGAAAAAAGGTTTGGCTCTGTGTTTGCTGGAC TAATTCAATCAACATTGTTATCTAAGAAGGAAAA GGGTGGAGAAAATGCTTCTATTAAGAAGCCTCG TGTACGTGGTTCATTTTCATTTCAAGGTGGAATG CAGACACTTGTTGACACAATGTGCAAACAGCTTG GTGAAGATGAACTCAAACTCCAGTGTGAGGTGC TGTCCTTGTCATATAACCAGAAGGGGATCCCCTC ATTAGGGAATTGGTCAGTCTCTTCTATGTCAAAT AATACCAGTGAAGATCAATCTTATGATGCTGTGG TTGTCACTGCTCCAATTCGCAATGTCAAAGAAAT GAAGATTATGAAATTTGGAAATCCATTTTCACTT

				GACTTTATTCCAGAGGTGACGTACGTACCCCTTT CCGTTATGATTACTGCATTCAAAAAGGATAAAGT GAAGAGACCTCTTGAGGGCTTCGGAGTTCTTATC CCCTCTAAAGAGCAACATAATGGACTGAAGACTC TTGGTACTTTATTTTCCTCCATGATGTTTCCTGATC GTGCTCCATCTGACATGTGTCTCTTTACTACATTT GTCGGAGGAAGCAGAAATAGAAAACTTGCAAAC GCTTCAACGGATGAATTGAAGCAAATAGTTTCTT CTGACCTTCAGCAGCTGTTGGGCACTGAGGACG AACCTTCATTTGTCAATCATCTCTTTTGGAGCAAC GCATTCCCATTGTATGGACACAATTACGATTCTGT TTTGAGAGCCATAGACAAGATGGAAAAGGATCT TCCTGGATTTTTTTATGCAGGTAACCATAAGGGT GGACTTTCAGTGGGAAAAGCGATGGCCTCCGGA TGCAAGGCTGCGGAACTTGTAATATCCTATCTGG ACTCTCATATATACGTGAAGATGGATGAGAAGAC CGCGTAA
18	Amaranthus rudis	cDNAContig	1238	GAGAGAGTGCGAGAGAGATGAGTGCGATGGCG TTATCGAGCAGCATTCTACAATGTCCGCCGCACT CCGACATCTCGTTCCGCTTTTTTGCTCATACACGA ACCCAATCCCCCATCTTCTTCGGAAGACCACGAA AATTATCATATATCCATTGTTCCACAAGCTCAAGC TCAACTGCCAATTACCAGAACACCATTACGAGCC AAGGAGAAGGAGATAAAGTATTAGATTGTGTAA TTGTTGGAGCTGGTATCAGTGGACTTTGCATTGC TCAGGCTCTTTCTACCAAACACATTCAATCCAATC TCAATTTCATTGTCACTGAAGCTAAACATCGTGTT GGAGGTAATATCACTACCATGGAGTCCGATGGC TATATCTGGGAAGAGGGTCCTAATAGTTTCCAAC CCTCCGATCCTGTGCTTACTATGGCGGTTGACAG TGGATTGAAAGACGATTTGGTCTTGGGAGATCCT AATGCCCCTCGTTTCGTGCTCTGGAATGGTAAAT TAAGGCCTGTTCCTTCCAAACCTACGGACCTTCCC TTTTTTGATCTCATGAGCTTTCCTGGTAAGATTAG GGCTGGTCTTGGTGCACTTGGTCTTCGTCCTCCTC CTCCTCCTCCTTCTTATGAGGAATCTGTTGAAGAA TTTGTGCGCCGTAATCTCGGCGATGAGGTCTTCG AACGCTTGATCGAACCCTTTTGTTCTGGTGTCTAT GCTGGTGATCCTGCAAAGTTGAGTATGAAAGCT GCATTTGGAAAGGTCTGGACCTTAGAGCAAAAG GGTGGTAGTATCATCGCCGGTACACTCAAAACTA TTCAGGAAAGGAAGAATAATCCTCCACCCCCTCG AGACCCCCGCCTTCCTAAACCTAAGGGCCAGACT GTTGGATCCTTTAGGAAAGGGCTCATTATGTTAC CTACCGCCATTGCTGCTAGGCTTGGCAGTAAAGT CAAACTATCGTGGACACTTTCTAATATTGATAAGT CGCTCAATGGTGAATACATTCTCACTTATCAAACA CCCGATGGACCGGTTTCTGTTAGGACCAAAGCG

				GTTGTCATGACTGTCCCTTCATACATTGCAAGTA GCCTGCTTCGTCCGCTCTCAGATGTTTGTCTGCAG ATTCTCTTAATTAATTTTCCTTTTCACAATTCGCTT TTACAGGGTTTTCCTTCACCTACAGAAACACCAA AGTTAAGAAATCTGATTTTACCCTCCAATTTATCT CCCTGA
19	Amaranthus rudis	cDNAContig	635	GGCCAGGGTGTGGAAACCTTGGGAACAATTTAT AGTTCATCTCTTTTCCCTGGTCGAGCACCACCCGG TAGGACCTTGATCTTGAGCTACATTGGAGGTGCT ACAAATCTTGGCATATTACAAAAGAGTGAAGATG AACTTGCGGAGACAGTTGATAAGGATCTCAGAA AAATTCTGATAAATCCAAATGCGAAAGGCAGCC GTGTTCTGGGAGTGAGAGTATGGCCAAAGGCAA TCCCCCAATTTTTAGTTGGTCACTTTGATGTGCTA GATGCTGCAAAAGCTGGTTTGGCAAATGCTGGG CTAAAGGGGTTGTTTCTTGGTGGTAATTATGTAT CAGGTGTTGCCTTGGGGAGGTGTATAGAGGGTG CTTATGACTCTGCTTCTGAGGTAGTGGATTTCCTC TCACAGTACAAAGATAAGTAGTCAATAGGGCTCC AGCATCTTGGTTAAGTAACTTTTTGTAGCTGTTGT AATTTGGAAAGATGTAAAATAGCCCACACTCAAA CAAGTTTGGAAAGATGTAAAAGCATGAGATACA GTCGGTGTTCATTGAGAGGATAGATGCAAATAA CTTGGACGGAAAAAAAAAAGAAAAAAAAACAAA ACATGTCGGCCGCCTCGGTCTCTACTGA
20	Amaranthus rudis	gDNAContig	5704	ATTAAGTTTTGATGTTTTTAGCTGCAATAATTTGT TGATGAAAAAGCCACTACTTTTTTCTCAGCTGCAA ATTATGTTGGAACCATTTCTCTGGAGAAAACACA ATGCTACTGAACTTTCTGATGAGCATGTTCAGGA AAGGCAAGTGCCACATACTATTAAGTGTTAGTTG CTGAGAATATATTTGAATCTAAGATGCACGAAGA CCACTGGTGCCCTTGCTCTATCAATTCTGATGGA AAGGATTATCGCTGAATTTACCTTCTACTAAAACA TCGATAAAATACTTCATTATTAGCATCAAAAGATT CCCTCCATCCTTCTGGTTTTGCTAGACTTGCCTTA TGAAGGTGTTCAAGGAGTAGTTTGCTACCCTTCA AGATAGGGTAGTGGTTGCCGTCTCTCATAATTTC AGTCACTCGTTTTCCTCTCCTAATTCAAGCCATAA TTTTTATGGTTCCTCCACACAACACTTGCTAAATT TGAAAAGTAGCAAAGAGGAAGTGAGCAAAATCA GCAGGAGTAGGACTGATGAGTAAGAGCTTGATT AAGTGTAGAGGATTTTCTTTTGTGTTGAATATGA ATGCATCATGCATGACTGTAGAATTGACATAATG ATTTGTCTGCAGCGTTGGTGAATTTTTTGAGCGA CATTTTGGGAAAGAGGTATTGTTGCCAATTGCCA TGCTCTATTCATTCCGGTGAATTAACAAATGTTGT GCTTCTGCTTACTATTGCTTATAATTATTGTTTGTT GCAGTTTGTTGATTATGTTATTGACCCTTTTGTTG

				CGGGTACATGTGGTGGAGATCCTCAATCGCTTTC CGTGAGTTAAATACTGTGCTTGCTTTTTTTTTTTTC AACATTTTCTGGAGGCTGTAAATAAATTATACTCC TTTCTATTCTAATCAAATATCCTATTTCCCCTTTTG GCATATTCAAATTTAGTTAAATATTGTGTAAATTA TTTACACAATTGCCATTAAATTTTCACTTTTCCCTT ACTCACTCTTCTCATGTGTCCCTTCCCCCTTTTCTT AAAATTGGTGCATTATCAAATAGGACATTTGATT TGAATAGGCGGGAGTTTCCAATTGTGCTTCCAAA GGTAGCTTGTCACTTTTTCTTTTTCTTTAAATTTTG TACCATGCCATGCATTTTGAACCTCAACTCATTTC GCCATAAAGGAATATTATGTTTGAGAAGAACGA GGATACTATTATCTTATAGATAACATATAGGTTTC ATTATCAATGATTGTTTGATTTTCAACTCTTCTTTT CCTTTCATGCTCATATTGATGTTATTTCTATTTGTT ATGAATTATGTCCATTGTGTTAATGTCTTTCTTTA TTGTAGATGCACCATACATTTCCAGAAGTATGGA ATATTGAAAAAAGGTATGAACCTTAAAGCTTTAA TTTTCTTCGAACTTAATGTTTCTTAATTGATTCTTT TGGATCAATTTCCATAAGAATGGAAATTTAAAAA AGGGTATGAACCTTAAAGATTTCTTCGAACTTAT ATGTTTTGTAATTCATGCTTTTAGATGCTGCACCA TTTTATCTATGTGTCTTAAGTTTGTTGTAATCATTT GTAGACCAAAAGAATGAATGGTCTGGTTTGAAA TGGTTCATCGTGCAAAAATGCGATTTTGCTTGTG ATTGAGGTAACATTCAAGGTGGTGTGTTTGTCGT ACTGTCAAATGTCTTCCTATACCATGTGATATATA TATAAGCCTAAAATGATATATTGTACACCTTTAG GATGTGGATAGCAGGGGTTCAGTACATATGAAA AATCCTTGCAATTTGATCTGTACGATCAATGTGAT TTTGCCTTTTGCCTTTTGCCTTTTGTTATATGATGA TGATTCCATGTGAAATTTTGGGATTTAGAAAATT CACTTGTTTAAGAACATTTGAATCAAACTTTCACC AATTTCAACCACATTTAATTGCGGCAAAGCCGAA CTTTAAAAGTCACTCCCAATCTTTGAGATATCCAA ACTCCAAAACTTCTATTAGCTTTCATGTTTTCACC AAGTAAAGTTGGTGCGACTCCTTACCATTTTCTTT ATTATGCATTTCGTTGATGTATAATAGTATAGATT GGTGCTCTCTTTGCTCTCCTTCCAACATGCATAAC TTCTAGTTCTTGTCGTTTTCTTTTCCTCCCTATTTTT ATTTGACTTGTAGCTATTTTTGTTCACTCTTCTCGC CCAATCCATAGCTAAAGAAACTTGATTTCATTGAT TTTGTAACTGATATGCAATTCATTTTTGTTTGCTTT TAGTTGTTGATTCAAAAACAATAATGCTAAAGCC CTAATCCTAACATGTCGGGTTAGCTGTTGAAACA ATACTTGAAATTGCTATAAAAAGGGATTTTTTTTC GGGTACTTCAGTTGTTGAGATTGATATGGTCAAG TATAATTTGTTTTAACACAATTTGTAATGATTTAA

				TGGCTTAGTTTCATAGCTGTTTGTATTAATAAAG GAAGGAGGACTATCTGAAATTGCAATAGGAAAG AGATTTTAGTTCGGTATTTGGTTGTTTAAATTGAT ATGGCCAAGTAATGTTCATTTTACACAATTGGTA ATGTTTTATTGGCTCAATAGTGTTTGTAAGTATGC GACTCAAATTTAATCAAGTATAACTTATTGAAAC ATAAATAAATATCCATTAGGTTTGGCTCTGTGTTT GCTGGACTAATTCAATCAACATTGTTATCTAAGA AGGAAAAGGGTGGAGAAAATGCTTCTATTAAGA AGCCTCGTGTACGTGGTTCATTTTCATTTCAAGGT GGAATGCAGGTATAAACTTGTAGCCATAATTTCA CTTTTTATACCTTATACTTCCAAAATATATTGATG CGTTTTTCTTGCTACAAAGTACAAACACAAAAGC TTTGGGAATAATTCTCAATTTTGTCAAATCTACTA AAAATATTCTATTAGGAATCAAGGTTTCTATTTTA GAATATATGGATGAAGACATGTAGAAGTGTGAA TAAAAAAACCTAGATGTGAAAGGTTTTTAGTCTA TTAAACAAGAATATTAGAATTCAGAGTCGTTTCA TCAATAAAATATTGTTGAAGAGGAGCAATTACAT TCTGCTTCAAGCAAAGGCAATCTTAAGAGGACCC TAAAACTTGAGGAGGTATGAGAACTTAGAGGCC AAAGAAATTAAATTTGATGAAGAGATTTGGTGA GATACCTTGCTTACAAAAATGATTAATTTTCCCCT TAGACACCTCAAATTATGACATTTATAAGTTCTCC ATGCGTATTCGACAAGATGTTACATCCTATATTCT AAATTAAGTATGAAATTTGTATATGTGTAAGAAA GAAAAGTTAGTCCCTTGAATTCCATGTCTACGAC CTCAAAGTGTTCATACCATTGAAATTAGCGAGCT TACGATTGTTAAGAAAGGATCAACTTGTCATCAT TGATCATTGATGAAGTGTGTAATAGACATACTAG GTGAAATTCAAAAGGGATCTACTCAGTCTTTGAG TTTACCGTTTGCTTCTAGTATTTTGCTATTTATAG GCACTATCAAAGGGTTCAATATTGTTTTTTCTGAA CATTGTTGCCGAATTGTGAAGGGAGAATGATGG TAGATTTCTCTTATTTTTATGAGAAAATTCTCTTTA TAAAGAGTTCGATAGCTCAAAAATGAAAGCTTAT TGCCAAAAGTGGATGGGGTAGATGAAGGAGAA ATGCAATCAATTTTGGTAGGCTTGACTTTGAGTA AAGAATTTGTGGAATAAGGTAGAAAAATAGGAT TTGGCTGCATGATATTGAAACCTTTTGCTACTTTT CTTTTTGTTTTGGTTGCAATGCACAGAAAGGCAG GACGGTAAAGTGTGATAAAATGGATGGGAAAAA TTGCTAGAATAGAATAGAAGAAAAATAATGGCA GGATGTATCCTTTGTTACCCTAGTTTCGACAACTG TGTTACGTCGGTATTATCGGTGGCTTGGACTGAG TCATCATAGAAATTCTTCTCTGATATAGTTTAGAT GAAATTTTTAAAATTTAAGCAGGCCTGAATTTTG ATAAAGATAGCATGATCTAAAGAAGGCAGCTCT

				AATAAATCAACATAAAATTTGATATTAAGTAGTC TCTGTCTAGGCCTGCTTTCCGAGCTAGTATATTAA CTGAGTACATGTTATTAGAGCAATAGCATAGGAG TCATGTTTTTGCATACTGATTAGCATGTCAATTTT ATTCCATTTGCTGAGTACTGTATGTTCTGCAGACA CTTGTTGACACAATGTGCAAACAGCTTGGTGAAG ATGAACTCAAACTCCAGTGTGAGGTGCTGTCCTT GTCATATAACCAGAAGGGGATCCCCTCATTAGGG AATTGGTCAGTCTCTTCTATGTCAAATAATACCAG TGAAGATCAATCTTATGATGCTGTGGTTGTCACT GTGAGTTTTTGTCTACTTTTGTCTCTATGAGCATG CAATTCCTTTCACAGCCGTTGAGTTAGCAATTATA TTCCAGTTTGAAACTTAAAGTTTTTTGGGGGAAT TTTTCTAGCATTCAAGTCAATCAAGGCTTATTTGG AACTCAAAGCTTTATCTATGTTATATGAAACTACA ATAAAATGATTTCTAAAAAATTAATTGCGAATAG CGGAGATTCAATTAGGGTGTATAATTGATCCACA TCAAATAGCATGCATTCTACATGTTAGTCACTTGT GGCTTCTCTAGTCCTCTGTCTCCAGAAAAAGCCT GCATACAAAGGCTCATGAAGACTAGTATGCTATA TACTTTCCGAAATGTCAGCATTAAGTAACTTGTGT TGAGGAAATATGTAAATCGTACCCTGTTACCCTC TTTTTAAAGAGTGATTTTTTTTTTAATTGAATGTG GTTATAGCTATCTGGTTTGATGAAGATTTACCATT CTTAATGAAGCAAAAAATTTTAAGTTCACAAGTT TCAATTATATTAGGCATTTAGGCTGCTATACAGT GAATTGGCTCGATAAATTTTGCGCATGTCTTATTT ATGTGAATTGTAGATAACGTTTGCTACAAAGGGT CAATCAAGAACAACCTTTTCATTTTTGTAAGGATA ACTCCTAAATTCTGCCTAGGTTGGAGGATATGTG GAAGTCACTTAATGGCAATAGGACTGAAATATTG TTGAATATGGTTATCTAGTACCAATTCACACTTGT ATACATGAGTACATGTCTAATGCTCTTTGTTGTGA TTTACTTAAACAAGAATTATGTTCATTAGCAGGCT TTCATGCTCTCTGTACAGCACCTTATCTTTCCTTTA CCACGATACTATTTGTCTTGTTTAATTATACATAT ATCATAAATGTTTCGACATTCGGTCTAAAATATTT TGGATGGGTGTATACTGTTTAATGCAACAATATG TAAAATAGATACATAAAGAAAAGTAAAAGGAAT AATGAATTACAAAAAATACGATGAAAATTGAAA ATGGATGTTGTATTTCAAAAGGAGGTTAAAGGA GTGATTTGCTTCCAAAGTAGAAATCATTCCGAGT TCGTAGATTGTTTTAAGAATACCGAGTGTAGTAT GGATTATGGTGGACAAAATTTTCTATAATATTTTT TCATAAACAATAGTGAAGCAAAAAATTATTGGCG AAACAGGTGTCAGCTTAAAATTTCCTTTTCACATG GTTATTTTCGTCATAGCTC
21	Amaranthus	gDNAContig	1031	TTTTAACCAATCCTCAAAATTTACACCATGGAGAT

	rudis			GTCTGCGGATAAGAATTAGTAACTGTAGCAGCT GTAATTGTTGCATGCAGTTTTATGGTTTGCCTTGC AATTCAAACTTGGGATATTGTTTGCCTTGCAATTT GTAGTTTAGTGTTTGCCCTTCACTTTGTATTTTAG TTATTTTTTTCATTGCAATTTGCTCTTTGAAGTATA AAATGGTGACCTTTCTTGCTCAGGATGTTGCTGC AGATTCTCTTTCTAAATTTTACTATCCACCAGTCG CAGCAGTGTCCCTTTCTTATCCCAAAGAAGCAAT TAGACCAGAATGCTTGATCGATGGAGAACTAAA AGGATTCGGGCAATTGCATCCCCGCAGCCAGGG TGTGGAAACCTTGGGTATATGCTCCCATTCAACT ATATCTCAATAATTATGAGTATTTTTCTTTCTCTG GATTATTCAATTTGGTGACGTTAAATTTTGACTGT ACTCGACAGGAACAATTTATAGTTCATCTCTTTTC CCTGGTCGAGCACCACCCGGTAGGACCTTGATCT TGAGCTACATTGGAGGTGCTACAAATCTTGGCAT ATTACAAAAGGCAAGTCATTTATACAATTATATG TGTCCTTGTATCCTCAAATAAGTCGTATCAATCCT GACGACATGCTTCTATCAATGCAGAGTGAAGATG AACTTGCGGAGACAGTTGATAAGGATCTCAGAA AAATTCTGATAAATCCAAATGCGAAAGGCAGCC GTGTTCTGGGAGTGAGAGTATGGCCAAAGGCAA TCCCCCAATTTTTAGTTGGTCACTTTGATCTGCTA GATGCTGCAAAAGCTGGTTTGGCAAATGCTGGG CTAAAGGGGTTGTTTCTTGGTGGTAATTATGTAT CAGGTGTTGCCTTGGGGAGGTGTATAGAGGGTG CTTATGACTCTGCTTCTGAGGTAGTGGATTTCCTC TCACAGTACAAAGATAAGTAGTCCATAGGGCTCC AGCATCTTGGTTAAGTAACTTTTTGTAGCTGTTGT AATTT
22	Amaranthus rudis	gDNAContig	1017	AGAGAGTGCGAGAGAGATGAGTGCGATGGCGT TATCGAGCAGCATTCTACAATGTCCGCCGCACTC CGACATCTCGTTCCGCTTTTTTGCTCATACACGAA CCCAATCCCCCATCTTCTTCGGAAGACCACGAAA ATTATCATATATCCATTGTTCCACAAGCTCAAGCT CAACTGCCAATTACCAGAACACCATTACGAGCCA AGGAGAAGGAGATAAAGTATTAGATTGTGTAAT TGTTGGAGCTGGTATCAGTGGACTTTGCATTGCT CAGGCTCTTTCTACCAAACACATTCAATCCAATCT CAATTTCATTGTCACTGAAGCTAAACATCGTGTT GGAGGTAATATCACTACCATGGAGTCCGATGGC TATATCTGGGAAGAGGGTCCTAATAGTTTCCAAC CCTCCGATCCTGTGCTTACTATGGCGGTAAACTG ATTCTTCTCTCTTTCTCCAATTTTTGATCATTCTATT CAATTTTCCCCTTATTGAATCAAAATCAAATTCCA GGTTGACAGTGGATTAAAAGACGATTTGGTCTTG GGAGATCCTAATGCCCCTCGTTTCGTGCTCTGGA ATGGTAAATTAAGGCCTGTTCCTTCCAAACCTAC

				GGACCTTCCCTTTTTTGATCTCATGAGCTTTCCTG GTAAGATTAGGGCTGGTCTTGGTGCACTTGGTCT TCGTCCTCCTCCTCCTCCTCCTTCTTATGAGGAAT CTGTTGAAGAATTTGTGCGCCGTAATCTCGGCGA TGAGGTCTTCGAACGCTTGATCGAACCCTTTTGTT CTGGTACCTACCCTGTTTAATTTTTCAATTTTCCCC CTTTTTTCTCTACTACTACTTTATTGATTCTTATCC ATGAGTGTACTATGGGAGTTGACAATAATTGTTC AGGTGTCTATGCTGGTGATCCTGCAAAGTTGAGT ATGAAAGCTGCATTTGGAAAGGTCTGGACCTTA GAGCAAAAGGGTGGTAGTATCATAGCCGGTACA CTCAAAACTATTCAGGAAAGGAA
23	Amaranthus rudis	gDNAContig	630	GTCTTGGGAGATCCTAATGCCCCTCGTTTCGTGC TCTGGAATGGTAAATTAAGGCCTGTTCCTTCCAA ACCTACGGACCTTCCCTTTTTTGATCTCATGAGCT TTCCTGGTAAGATTAGGGCTGGTCTTGGTGCACT TGGTCTTCGTCCTCCTCCTCCTCCTCCTTCTTATGA GGAATCTGTTGAAGAATTTGTGCGCCGTAATCTC GGCGATGAGGTCTTCGAACGCTTGATCGAACCCT TTTGTTCTGGTACCTACCCTGTTTAATTTTNTCAG GTGTCTATGCTGGTGATCCTGCAAAGTTGAGTAT GAAAGCTGCATTTGGAAAGGTCTGGACCTTAGA GCAAAAGGGTGGTAGTATCATAGCCGGTACACT CAAAACTATTCAGGAAAGGAAAAATAATCCTCCA CCCCCTCGAGACCCGTCCGTAATCACCATTACTTA TTGCTTTCCATCACCTTGAATCTTACCTTAATATAC ATGTATTTAATTGATAATGTCACATTGCCTCATTT GCAGCCGCCTTCCTAAACCTAAGGGCCAGACTGT TGGATCCTTTAGGAAAGGGCTCATTATGTTACCT ACCGCCATTGCTGCTAGGTATCTTTTGACTCTCAA ACCTTATATAT
24	Amaranthus rudis	gDNAContig	612	ACACTCAAAACTATTCAGGAAAGGAAAAATAATC CTCCACCCCCTCGAGACCCGTCCGTAATCACCATT ACTTATTGCTTTCCATCACCTTGAATCTTACCTTAA TATACATGTATTTAATTGATAATGTCACATTGCCT CATTTGCAGCCGCCTTCCTAAACCTAAGGGCCAG ACTGTTGGATCCTTTAGGAAAGGGCTCATTATGT TACCTACCGCCATTGCTGCTAGGTATCTTTTGACT CTCAAACCTTATATATTTCTCATCTTCTCCTTCTGC CAGTGCCATACTAATACTAGTATCTTTACCATATA TTTTTTATTTTTTTAGGCTTGGCAGTAAAGTCAAA CTATCGTGGACACTTTCTAATATTGATAAGTCGCT CAATGGAGAATACAATCTCACTTATCAAACACCC GATGGACCGGTTTCTGTTAGGACCAAAGCGGTT GTCATGACCGTCCCTTCGTACATTGCAAGTAGCT TGCTTCGTCCGCTCTCAGTGAGTATCATTCTTTCC TTCATTTCTATTCTTTTAATGCTATCCAATGTCTTA TTAAGCACTAGTTTGGCGTTGTGCTCATCAACTAT

				GACTATAATGTTAACTAATAG
25	Amaranthus rudis	gDNAContig	487	TTGATTTGAAGATAGGATAACCAGAGAGAGTGC GAGAGAGATGAGTGCGATGGCGTTATCGAGCAG CATTCTACAATGTCCGCCGCACTCCGACATCTCGT TCCGCTTTTTTGCTCATACACGAACCCAATCCCCC ATCTTCTTCGGAAGACCACGAAAATTATCATATAT CCATTGTTCCACAAGCTCAAGCTCAACTGCCAATT ACCAGAACACCATTACGAGCCAAGGAGAAGGAG ATAAAGTATTAGATTGTGTAATTGTTGGAGCTGG TATCAGTGGACTTTGCATTGCTCAGGCTCTTTCTA CCAAACACATTCAATCCAATCTCAATTTCATTGTC ACTGAAGCTAAACATCGTGTTGGAGGTAATATCA CTACCATGGAGTCCGATGGCTATATCTGGGAAG AGGGTCCTAATAGTTTCCAACCCTCCGATCCTGT GCTTACTATGGCGGTAAACTGATTCTTCTCTCTTT CTCCAATT
26	Amaranthus spinosus	cDNAContig	1582	AGAGAGAGTGCAAGAGAGATGAGTGCCATGGC GTTATCGAGCAGCATTCTACAATGTCCGCCGCAC TCCGACTTCTCTTTCCGCTTTTCTGCTTATACACCA ACCCGCTCCCCCTTCTTCTTCGGAAGACCTCCAAA ATTATCATATATCCATTGTTCCACAAGCTCAAGCT CAACTGCCAATTACCAGAACACGATTACGACCCA AGGAGAAGGAGATAAAGTATTGGATTGTGTAAT TGTTGGAGCTGGTATCAGTGGACTTTGCATTGCT CAAGCTCTTTCTACCAAACACATTCAATCCAATCT CAATTTCATTGTCACTGAAGCTAAAAACCGTGTT GGAGGTAATATCACTACCATGGAGTCCGATGGC TATATCTGGGAAGAGGGTCCTAATAGTTTCCAAC CCTCCGATCCTGTGCTTACTATGGCGGTTGACAG TGGATTGAAAGATGATTTGGTCTTGGGAGATCCT AATGCCCCTCGTTTCGTGCTCTGGAATGGTAAAT TAAGGCCTGTTCCTTCCAAACCTACGGACCTTCCC TTTTTTGATCTCATGAGCTTTCCTGGTAAGATTAG GGCTGGTCTTGGTGCTCTTGGTCTTCGTCCTCCTC CTCCTTCTTATGAGGAGTCTGTTGAAGAATTTGT GCGCCGTAATCTCGGTGATGAGGTTTTCGAACGC TTGATTGAACCCTTTTGTTCTGGTGTGTATGCTGG TGATCCTTCAAAGTTGAGTATGAAAGCTGCATTT GGAAAGGTCTGGACCTTAGAGCAAAAGGGTGGT AGTATCATCGCCGGTACACTCAAAACTATTCAGG AAAGGAAGAATAATCCTCCACCGCCTCGAGACCC CCGCCTTCCTAAACCTAAGGGCCAGACTGTTGGA TCCTTTAGGAAAGGGCTCATTATGTTACCTACCG CCATTGCTGCTAGGCTTGGCAGTAAAGTCAAACT ATCATGGACACTTTCTAATATTGATAAGTCGCTCA ATGGTGAATACAATCTCACTTATCAAACACCCGA TGGACCGGTTTCTGTTAGGACCAAAGCGGTTGTC ATGACTGTCCCTTCATACATTGCAAGTAGCCTGCT

				TCGTCCGCTCTCAGATGTTGCTGCAGATTCTCTTT CTAAATTTTACTATCCACCAGTCGCAGCAGTGTCC CTTTCTTATCCCAAAGAAGCAATTAGACCAGAAT GCTTGATCGATGGAGAACTAAAAGGATTCGGGC AATTGCATCCCCGCAGCCAGGGTGTGGAAACCTT GGGAACAATTTATAGTTCATCTCTTTTCCCTGGTC GAGCACCACCCGGTAGGACCTTGATCTTGAGCTA CATTGGAGGTGCTACAAATGTTGGCATATTACAA AAGAGTGAAGATGAACTTGCGGAGACAGTTGAC AAGGATCTCAGAAAAATTCTGATAAATCCAAATG CGAAAGGCAGCCGGGTTCTGGGAGTGAGAGTAT GGCCAAAGGCAATCCCCCAATTTTTAGTAGGTCA CTTTGATCTACTAGATGCTGCAAAAGCTGGTTTG GCAAATGCTGGGCTAAAGGGGTTGTTTCTTGGT GGTAATTATGTAT
27	Amaranthus thunbergii	cDNAContig	1485	AGAGAGTGCGAGAGAAATGAGTGCGATGGCGTT ATCGAGCAGCATTCTACAATGTCCGCCGCACTCC GACATCTCGTTCCGCTTTTCTGCTCATTCACCAAC CCACTCCCCCATCTTCTTCGGAAGACCACGAAAA TTATCATATATCCATTGTTCCACAAGCTCAAGCTC AACTGCCAATTACCAGAACACGATTACGACCCAA GGAGAAGGAGATAAAGTATTAGATTGTGTAATT GTTGGAGCTGGTATCAGTGGACTTTGCATTGCGC AGGCTCTTTCTACCAAACACATTCAATCCAATCTC AATTTCATTGTCACTGAAGCTAAACATCGTGTTG GAGGTAATATCACTACCATGGAGTCCGATGGCTA TATCTGGGAAGAGGGTCCTAATAGTTTCCAACCC TCTGATCCTGTGCTTACTATGGCGGTTGACAGTG GATTGAAAGACGATTTGGTCTTGGGAGATCCTAA TGCCCCTCGTTTCGTGCTCTGGAATGGTAAATTA AGGCCTGTTCCTTCCAAACCTACGGACCTTCCCTT TTTTGATCTCATGAGCTTTCCTGGTAAGATTAGG GCTGGTCTTGGTGCACTTGGTCTTCGTCGTCCTCC TCCTCCTTCTTCTTATGAGGAATCTGTTGAAGAAT TTGTGCGCCGTAATCTCGGCGATGAGGTCTTCGA ACGCTTGATCGAACCCTTTTGTTCTGGTGTGTATG CTGGTGATCCTACAAAGTTGAGTATGAAAGCTGC ATTTGGAAAGGTCTGGACCTTAGAGCAAAAGGG TGGTAGTATCATCGCCGGTACACTCAAAACTATT CAGGAAAGGAAGAATAATCCTCCACCCCCTCGA GACCCCCGCCTTCCTAAACCTAAGGGCCAGACTG TTGGATCCTTTAGGAAAGGGCTCATTATGTTACC TACCGCCATTGCTGCTAGGCTTGGCAGTAAAGTC AAACTATCGTGGACACTTTCTAATATTGATAAGTC GCTCAATGGTGAATACATTCTCACTTATCAAACAC CCGATGGACCGGTTTCTGTTAGGACCAAAGCGG TTGTCATGACTGTCCCTTCATACATTGCAAGTAGC CTGCTTCGTCCGCTCTCAGATGTTGCTGCAGATTC

				TCTTTCTAAGTTTTACTATCCACCAGTCGCAGCAG TGTCCCTTTCTTATCCCAAAGAAGCAATTAGACCA GAATGCTTGATCGATGGAGAACTAAAAGGATTC GGGCAATTGCATCCCCGCAGCCAGGGTGTGGAA ACCTTGGGAACAATTTATAGTTCATCTCTTTTCCC TGGTCGAGCACCACCCGGTAGGACCTTGATCTTG AGCTACATTGGAGGTGCTACAAATGTTGGAATAT TACAAAAGAGTGAAGATGAACTTGCGGAGACAG TTGATAAGGATCTCAGAAAAATTCTGATAAATCC AAATGCGAAAGGCAGCCGTGTTCTGGGAGTGAG AGTATGGCCAAAGGCAAT
28	Amaranthus viridis	cDNAContig	1808	GGATAACCAGAGAGAGTGCGAGAGAAATGAGT GCGATGGCGTTATCGAGCAGCATTCTACAATGTC CGCCGCACTCCGACATCTCGTTCCGCTTTTCTGCT CATTCACCAACCCACTCCCCCATCTTCTTCGGAAG ACCACGAAAATTATCATATATCCATTGTTCCACAA GCTCAAGCTCAACTGCCAATTACCAGAACACGAT TACGACCCAAGGAGAAGGAGATAAAGTATTAGA TTGTGTAATTGTTGGAGCTGGTATCAGTGGACTT TGCATTGCGCAGGCTCTTTCTACCAAACACATTCA ATCCAATCTCAATTTCATTGTCACTGAAGCTAAAC ATCGTGTTGGAGGTAATATTACTACCATGGAGTC CGATGGCTATATCTGGGAAGAGGGTCCTAATAG TTTCCAACCCTCTGATCCTGTGCTTACTATGGCGG TTGACAGTGGATTGAAAGACGATTTGGTCTTGG GAGATCCTAATGCCCCTCGTTTCGTGCTCTGGAA TGGTAAATTAAGGCCTGTTCCTTCCAAACCTACG GACCTTCCCTTTTTTGATCTCATGAGCTTTCCTGG TAAGATTAGGGCTGGTCTTGGTGCACTTGGTCTT CGTCGTCCTCCTCCTCCTTCTTCTTATGAGGAATC TGTTGAAGAATTTGTGCGCCGTAATCTCGGCGAT GAGGTCTTCGAACGCTTGATCGAACCCTTTTGTT CTGGTGTGTATGCTGGTGATCCTACAAAGTTGAG TATGAAAGCTGCATTTGGAAAGGTCTGGACCTTA GAGCAAAAGGGTGGTAGTATCATCGCCGGTACA CTCAAAACTATTCAGGAAAGGAAGAATAATCCTC CACCCCCTCGAGACCCCCGCCTTCCTAAACCTAA GGGCCAGACTGTTGGATCCTTTAGGAAAGGGCT CATTATGTTACCTACCGCCATTGCTGCTAGGCTTG GCAGTAAAGTCAAACTATCGTGGACACTTTCTAA TATTGATAAGTCGCTCAATGGTGAATACAATCTC ACTTATCAAACACCCGATGGACCGGTTTCTGTTA GGACCAAAGCGGTTGTCATGACTGTCCCTTCATA CATTGCAAGTAGCCTGCTTCGTCCGCTCTCAGAT GTTGCTGCAGATTCTCTTTCTAAGTTTTACTATCC ACCAGTCGCAGCAGTGTCCCTTTCTTATCCCAAA GAAGCAATTAGACCAGAATGCTTGATCGATGGA GAACTAAAAGGATTCGGGCAATTGCATCCCCGCA

				GCCAGGGTGTGGAAACCTTGGGAACAATTTATA GTTCATCTCTTTTCCCTGGTCGAGCACCACCCGGT AGGACCTTGATCTTGAGCTACATTGGAGGTGCTA CAAATGTTGGAATATTACAAAAGAGTGAAGATG AACTTGCGGAGACAGTTGATAAGGATCTCAGAA AAATTCTGATAAATCCAAATGCGAAAGGCAGCC GTGTTCTGGGAGTGAGAGTATGGCCAAAGGCAA TCCCCCAATTTTTAGTTGGTCACTTTGATCTGCTA GATGCTGCAAAAGCTGGTTTGGCAAATGCTGGG CTAAAGGGGTTGTTTCTTGGTGGTAATTATGTAT CAGGTGTTGCCTTGGGGAGGTGTATAGAGGGTG CTTATGACTCTGCATCTCAGGTAGTGGATTTCCTC TCACAGTACAAAGACAAGTAGTCAATAGGGCTCC ACCTTCCTGGTTAACTAACTTTTGTAGCTCTTGTA ATTTGTATCATGTAATATTATTCAGATGTAAAAGA TACAGTCGGTATTTATTGAGAGGATAGATGCAAA TAACTT
29	Ambrosia trifida	cDNAContig	1829	GGAACATCAACCAGATAAGACTTTCCCCCAATAA AAATGTCATCTCTCACAAACCTCCCTTCCCTGAAC CACTACCGCACCTGGTCTTCCCCACCCATTCCCCA TCGAACCCAATCATCCAAACCCCCTAACCACCTAA CCACCTATGGTCCCACCAATAACAACCACAACAG ACGTACAACAACAACCTTCCGTTGCTCAATAGCC AACGACACTCCAATCTCTCCTCCAATTACCAACGA CTCCAATTCTAAACCCTTACTGGACTGTGTTATTA TTGGTGCTGGAATCAGTGGTCTCTGCATTGCCCA AGCCCTAGCTACTAAACATGCTGACGTGTCACCT GATGTGGTTGTTACGGAAGCACGTGATAGGGTT GGAGGTAATATATCGACGGTTGAACGTGATGGA TATTTGTGGGAAGAAGGTCCGAATAGTTTTCAAC CGTCTGATCCGATGCTCACTATGGTGGTGGATAG TGGGTTGAAAGATGATTTGGTTTTAGGGGACCCC ACTGCACCACGGTTTGTATTGTGGGGTGGTGGTT TGAAGCCAGTGCCTTCCAGTCCAGCTGATTTGCC TTTCTTTGATCTAATGAGCTTTACTGGAAAACTCA GAGCCGGTTTTGGTGCTCTAGGGATCCGCCCTCC ACCACCAGATCGTGAGGAATCTGTTGAAGAATTT GTTCGGCGTAACCTTGGTGATGAAGTTTTTGAAC GCTTAATAGAACCATTTTGTTCAGGTGTTTATGCT GGCGACCCATCAAAACTTAGTATGAAAGCAGCAT TTGGTAAAGTTTGGAAGCTGGAGAAGAATGGTG GTAGCATTATTGGTGGAGCATTCAAAGCAATCCA AGCAAAAATAAGAGTACCAAGCCTCCTCGGGAC CCGAGATTACCAACACCAAAGGGCCAAACTGTTG GATCTTTTAGGAAGGGACAAGCCATGTTGCCCAA TGCCATCTCAAAACGTTTGGGTAGCAGAGTGAAA GTGTCATGGAAGCTAATAAATATCTCAAAGTTGG AGAATAGAGGTTATAATCTGACTTACGAAACACC

				AAATGGATTTGCAAGTCTGCAAACTAAAACTGTT GTCATGACTGTTCCTTCCTACGTGGCGAGTGACT TGTTGCGTCCTCTTTCGTCGGAAGCAGCAGAGGC TTTGTCCAAATTTTATTACCCTCCAGTTGCTGCTG TATCTGTTTCCTATCCAAAAGAAGCGATTCGTGCT GACCGTTTGATCGATGGTCAACTTAAGGGTTTTG GTCAATTACATCCAAGAAGTCAAGGCGTTGAGAC TTTAGGTACCATCTATAGCTCATCCCTTTTCCCTA ACCGGGCGCCACCTGGAAGGGTTCTCCTCCTTAA CTACATTGGAGGGGCTACAAATCCTGGTATTTTG TCGAAGACGGAGAGTGAACTTGTGGAAGCAGTT GACCGTGACCTAAGGAAGATGCTCATAAACCCTA GAGCAGGCGAACCGTTGACTTTGGGGGTCAAAG TGTGGCCTCGAGCAATCCCACAGTTTCTAATTGG TCATTTTGACATTTTGGATGCTGCAAAATTTGCTC TTAGTGAAGGTGGATATAGAGGTATGTTTCTTGG AGGCAACTATGTTTCTGGTGTGGCTTTAGGTCGA TGCGTGGAGAGTGCTTATGACGTTGCAGCCGAT GTAAGTACATTTTTGTCACGAGGCGTGTATAAGT GATACTGTTATGTAGCACTTTGGAATACTTTCTTG TGAGGTTAGTGGTTACCTTTTTGTCACAAGGCAG GTACAAATAACAAGCCAATTATTGGAGTTCAATA ATAATAATTTTTGTGTAGGTTA
30	Ambrosia trifida	cDNAContig	921	GACTGACAGAGAAACCAACAATGGCTTCACCAA CTATAGTTGACAACCAAAAACCTGCTAAGAGAGT TGCTGTTGTTGGTGCTGGTGTCAGTGGTTGTGCT GCTGCTTATAAGTTAAAGTTACATGGATTGAATG TGACTGTGTTTGAAGCTGATGGGAGCGTTGGTG GGAAACTAAAGAGCGTTTCGCAAGATGGTTTAAT ATGGGATGAGGGTGCCAATACTATGACTGAGAG TGAGGCAGATGTTAGCAGTTTGATTGATGATCTT GGGCTTCGAGATAAACAGCAGTTTCCAATTTCAC AGCACAAGCGGTACATTGTAAGAAATGGAAAAC CTGTATTGATACCTTCTAACCCAATTGCACTGATT AGCAGCAGTTTTCTTTCCACTCAGTCAAAGGTTC AAATTCTTTTAGAGCCATTTTTATGGAAGAAGAC TAAGTCATCTGACGAACCCGAGAGTGTTGGAGG ATTCTTTCAACGTCATTTTGGGAAGGAGGTTGTT GAGTATCTCATTGATCCAGTTGTTGCGGGAACAA GCGGTGGAGATCCTGAATCACTCTCTATGCGTCA TGCATTTCCTGAGCTATGGGATTTAGAGAGAAG GTTTGGTTCAATCATTTCTGGGGCATTTCAATCTA TGGTATCTTCCAGAGGTGGGAAAAGGAAACCTT CTGGAAACAGCAAACGTAGGCGTGGTTCCTTTTC TTTTTTTGGTGGGATGCAGACACTCACTGATGCA CTATGCAAAGAGATTGGACCCCATGAAGTTAATC TTCAATCAAAGGTGCTTGAAATGTCCTACAGCTG CGATGATAATGCGGTTGGTAATTGGTCAATTTAT

				TGTGCTCCAGATCAAAACAAACAATTTCAGCAAT CTTTTGATGCTGTGATCATGACTGCCCCACTTAAC AACCTGC
31	Ambrosia trifida	cDNAContig	811	TTTCTAGCAATCTTTTGATGCTGTGATCATGACTG CCCCACTTAACAATGTAAAAGAAATGAAGATTAC AAAGACAGGAAGTCCGTTTCTGCTTAATTTTATTC CAGAGGTGAGTTATTTGCCAATATCAGTAATAAT CTCCACTTTCAAGAAAGAAAACGTGAAGCAGCCT CTTGAGGGTTTTGGAGTTCTTGTTCCTGCCAAGG AGCAGGAAAATGGTTTGAGGACACTAGGCACCC TCTTCTCTTCCATGATGTTTCCAGATCGGGCCTCA GAAGACGTGTACCTTTACACCACCTTTGTTGGGG GTAGTCGAAACAAAGAACTGGCCAAAGCTTCGA GGGACGAGTTGAAGCAGATAGTAACTTCTGACC TCAGACAGTTGCTTGGAACAGAAGGGGAGCCAA AATTTCTAACTCACTATTATTGGAGCAAAGCATTT CCATTGTATGGGCGTGACTATGGTTCAGTTATTG AAGCAATTGAGAAGATGGAAAAAGAGCTACCCG GTTACTTTTATGCAGGTAACCACAAAGGAGGGCT CTCTGTTGGGAAAGCAATATCCTCCGGATGCAAA GCAGCCGAATCCGTGATTGCATATTTGGATTCTT ATTCGGACCAGAAGTAGAAGGATGGGTGTTGCT AGATGATGTTTTAACTGGATTGGCCGGAGAATGT AGATCAAAAGAGTTTTTGTTCGCTAGAGCGAGG ATAAATTTGACGAAAATTCAGCATGGCTTTTCGT TTTGTGTTTTTGAAGGTGAGCAAGGATGGTGTTG TATAAACTTATTGTTGAGTAAATTATAACTAA
32	Ambrosia trifida	gDNAContig	4915	CGCACGCAATGGTTTTGCACTTTTGCCCACAGTA AAGAAAAGGTAGCCTCTCTACCCGACCCGACCCG ACCCGAACCAAACCGATAAAAACAAATACCAACT CTGATAACCAGATTACTCACAGAGAAACCAACAA TGGCTTCACCAACTATAGTTGACAACCAAAGTTA GGGTTCTTCTAAATTCTAATTACATTTTATCCTAA TTTTACTTACACATTTGTAGCATTTGCATCTATAA TTCAGAAACCTAATCTAATTTATTAATTAATTAAT TAAGTGGTTTTGTTTTCTCTACAGAACCTGCTAAG AGAGTTGCTGTTGTTGGTGCTGGTGTCAGGTACT TAAACTTAAAACCTAAAACAGATAATTATTTTGCT TATTTACTAGATTCACTTATTCTGTTCATGTAATTT GCTAAGGTTTGATCAGTCAATTATATACATTTAG GGATTTAGGAGTTACAGAATGTTTTGATATAATA ATATATACAATTTGTAAAAATATATAGATCATGAT TGATAATTAGAGGAATGGAATATTTTGATAATTG AAAAAACAATATGTTACATTTTTTTCAGTGGTTGT GCTGCTGCTTATAAGTTAAAGTTACATGGATTGA ATGTGACTGTGTTTGAAGCTGATGGGAGCGTTG GTGGGAAACTAAAGAGCGTTTCGCAAGATGGTT TAATATGGGATGAGGGTGCCAATACTATGGTAT

				GTTTTAGTATAATATGATTGGTTTCACTTTGTTAG CATTTTTTATGAGGTTTGTTGTATGTGTTACCTTA TGTAGACTGAGAGTGAGGCAGATGTTAGCAGTT TGATTGATGATCTTGGGCTTCGAGATAAACAGCA GTTTGTAAGTTGTTGTGTTTGATATAGCTGCCATA CTTCCTATAGCTTGTGTGGTAAATTATATCTATGA ACATATGCAATTATTTTGTAAAATGACAAGAAAC AGATTCTTTGTTTTATTTGTGTATGAATAATGAAT AGATAAGACTAAATTCATTTTTAGGTCTGCTTCG ATTTGTCTTTTATAATCACTACGCTGAGTTTTAAA TCTTTAACATTATTTCCTGTTGCAGCCAATTTCAC AGCACAAGCGGTACATTGTAAGAAATGGAAAAC CTGTATTGGTATGGATATCTCAACACCACTTAACT AGTGATCCTCTATTTTTAGTAAAATTCATTTACTA AAAAAAGGGGGGCTGAAAAATTAAAATTTAATG TGAATTGTGCTTTATTAGGTTTGAATGCTTAACCT CATCAAAGTCAAATAATAACATGAGTAGTCTGTT GCTCTGGAAACCCGTATTGCAACCCATGAAAAGA TCCAAATCACGGTTTTTCAAACACTGTTTTATACT TTTATGTCCAGGGAACAAAAAACCAAAATCTTTC CTGAGTGAGGCCTTAGTTGTCTTCTTATTATTTAT CTTTTATATTTATCAAGTTCATGTCTCTCTATATTG ACCATGACTCAGTCTATATCATGATTGCAGATAC CTTCTAACCCAATTGCACTGATTAGCAGCAGTTTT CTTTCCACTCAGTCAAAGGTATGTTAGTAGCTCCT GCCACCTTGAAGGTTCAAGCATAAGTATGCCATA TCTTATTGAGATCGTTCACTCGCATACTATCTTCT TAATGTTGTTCAATGTTGAGATTAAAGTGCAATC TTTATTCTATTTTGCTTAATCAAATATAATGTTTAT TTATTTTAATTTTATTAAAAAAGTATCTACGTAAG TATTACAAAAAGTAAAAACTCTTCCCCGTTGATG AGATGATCTCAAAGTCTAATGTCATATATCTAGT ACTCTCAATAAGCTAACATAAACAGTATAGTCTA TTAAAAGGGTCCCCAACATCGAAATGAGTAACGC TGCTTTGAGTTAAGGGTGCAAAATGTCATATAAT AAATAAAGATGTTCTATGATGCTTTGATATTTGTT TCGCACTTTCACTTATCCCCCATGGTATTTTTAACT TGTTTTTAAAAGTAGAAGATTTTTTTTATTGATGT GCATGCGATTATTATCGGCTTTGTTTGCAAATTTT ACAGGTTCAAATTCTTTTAGAGCCATTTTTATGGA AGAAGACTAAGTCATCTGACGAACCCGAGAGGT AAAATACATAGCCTTGTTCCATTTCATCGGCTTGA AGTAGTTATATTCGGTACATGCCATTAGGTTCTTA ACCATGTATTTTGCAGTGTTGGAGGATTCTTTCA ACGTCATTTTGGGAAGGAGGTGTTTGTATATTCG ACATAATGTTTTGTTTCTGTTCTGATTCTGTTTCTC ATAGTTATTAATATTTGACCTGCTTATCTAAGGTT GTTGAGTATCTCATTGATCCAGTTGTTGCGGGAA

				CAAGCGGTGGAGATCCTGAATCACTCTCTGTGAG TAACTATTGTTTCTCCACACATTTTTTTGGAGAAA TATACATTGCTGCTTTACATTAACGACCTTAAACC GTTTAATATATTGCTTGAATTCTTTTACTTTTCCAC ACAGATGCGTCATGCATTTCCTGAGCTATGGGAT TTAGAGAGAAGGTATGTTTGTAACAAACAGTAGT AATTCTTCTTCAAACGATCTGTGGAATAATGACTT TTGACCACTTATTTCTGAAGACCTAAAATCAATTT AATACTTACAACTATTTAATTCAGGTTTGGTTCAA TCATTTCTGGGGCATTTCAATCTATGGTATCTTCC AGAGGTGGGAAAAGGAAACCTTCTGGAAACAGC AAACGTAGGCGTGGTTCCTTTTCTTTTTTTGGTGG GATGCAGGTAAGACGAGGGTGATTTACTGATTT AGATAAGACCCTAAATTTAGTTATTGTTATCTTTT AATTAATTACAGATGTTATTTGGGTCGTTCATGCT TTTTTGCTATGCAGACACTCACTGATGCACTATGC AAAGAGATTGGACCCCATGAAGTTAATCTTCAAT CAAAGGTGCTTGAAATGTCCTACAGCTGCGATGA TAATGCGGTTGGTAATTGGTCAATTTATTGTGCT CCAGATCAAAACAAACAATTTCAGCAATCTTTTG ATGCTGTGATCATGACTGTGAGTGCCTTCATTGG GTAATCTTTTACTTATCAGTGACATAAAGTTAGTT AATTTCTTGCATTCTTGATGAAGATAGTTTTTTGT ATCTTTAAAGTTTATTCTGTGTCCTCTAGGTAGTA TCTGGATATTAATACATGGGATGGGAATTTTTTT AATCTTGAGTTTTTCTCTGATGGTTATTAAGTGTT AGATGCATCTAATTTTAACTGACAAAGAAAATAT TCCCCAATTAGGCCCCACTTAACAATGTAAAAGA AATGAAGATTACAAAGACAGGAAGTCCGTTTCTG CTTAATTTTATTCCAGAGGTATGTTTTTTTTTCTTC TACTAAAGCATTAGTTTTAGTTCTATCAAATCTAA CACTGAATACAGAAAACAGCTTTAACATCGTCAT CCAATTAAATTGTGAAATATTTATAGTGTCATTTC TTAGCCTTTTGTTTTTATAATACAGGTGAGTTATT TGCCATTATCAGTAATAATCTCCACTTTCAAGAAA GAAAACGTGAAGCAGCCTCTTGAGGGTTTTGGA GTTCTTGTTCCTGCCAAGGAGCAGGAAAATGGTT TGAGGACACTAGGTGAAGCTTGATTCTGCCCTCC ATTATTGTTTTTTATTTGTTTACATTGACACCATAG CAAAAATTCTGCTATGCAGGCACCCTCTTCTCTTC CATGATGTTTCCAGATCGGGCCTCAGAAGACGTG TACCTTTACACCACCTTTGTTGGGGGTAGTCGAA ACAAAGAACTGGCCAAAGCTTCGAGGTAGGCAG GCTTGCTCATCACCATATTCCCCCTTAAAATTGTA GTGTGAACTTAACTCAAGTTCTAATTAATTTTTTG TGCATATGTTCAAAATCTATGATAGCCTTCTGAAA GACAAAGTAAAAAAAGTCTTTACTGATTAATTGT GGTAAAATCAATTTATTCATAATGACGTTAATTG

				ACAAATAGGTCTTGGAAACTTTCCTAGTAGAGGA TATGTTGTAACTTTTAACTCAAAAATCTTTCTTGC AAAATAGGGACGAGTTGAAGCAGATAGTAACTT CTGACCTCAGACAGTTGCTTGGAACAGAAGGGG AGCCAAAATTTCTAACGTAAGGGCACAACGCTAT TTCAGTTTAACAGTAATCTTTGCTAGAATAAGAA ATGTAACCGCTTGCCTACCTATGGTCTTTTTATCT GTTAAACAAAATTTTGTTTAATAACCACTAGCCTG GTGTAGTGGCAAAGGTGTATCTCCCTCATCCAAG AGGTGTTGGGTTCTAGTCTCACTTGAGACAAGG GGAACATTATAAGCGGAGTAAAAAATTAGCCGT TTAAAAAAAAAAAAGTTTGTAATTTGAAGTTTTC CATCATGAACTGAAACAGTTGCTAAAATGTAACA AGAAGTTATTAAAGTCTTGAGGTACATAGATATA TACACAATGTAAATATGGCTTACGGAGTTGTGAG GTTGATTGCAGTCACTATTATTGGAGCAAAGCAT TTCCATTGTATGGGCGTGACTATGGTTCAGTTATT GAAGCAATTGAGAAGATGGAAAAAGAGCTACCC GGTTACTTTTATGCAGGTAACATGTTTTGTCTTGA AAATAAAAATGGACAAATCATATGTTGATGAGTA GAGGTGGCAATTTTGACCTATTATAACTTACAGA GGGATAGATACTGCCATACTGGTTACGTATTTCT TTAATGGGTCACACGGGTAGAAATAAAAATATA GCTCGGGTCAAAAGAAGCCTAAAGTTTATTCTGA GCATACAACTTCCTAGTCGTCGTATTTCAGAAATT AAATTCTTATGTTAATAAGATAATTTTGGT
33	Ambrosia trifida	gDNAContig	851	TTGCGCCTCGGTTTTGGACCTCGTCGCTTTAGTGC GCTTCGCGCTTTTTAAAACCAAGCTTCTATCGAGT TTAATGACTAAAATTTAGTAAAATATAATGACCA ATATGGAAGGTATTTCATGACAATTAACCCTAAA TATATTAGGTAACCACAAAGGAGGGCTCTCTGTT GGGAAAGCAATATCCTCCGGATGCAAAGCAGCC GAATCCGTGATTGCATATTTGGATTCTTATTCGG ACCAGAAGTAGAAGGATGGGTGTTGCTAGATGA TGTTTTAACTGGTAAACTTTATTTCTTATATCTTAT TTTTTTTCTTATTTTTCAATGCAAAGAGTCAAACG GCGCAAGTGTAATATCAGGATTGGCCGGAGAAT GTAGATCAAAAGAGTTTTTGTTCGCTCGAGGTTG GATAAATTTGACGAAAATTCAGCATGGCTTTTCG CTTTGTGTTTTTGAAGGTGAGCAAGGATGGTGTT GTATAAACTTATTGTTGAGTAAATTATAACTAATG ACATGTTTGAATAATGTGTTAGAAAAAAATGAAT CTTATAATTGAAAATAATATGATCAATTTATGATA GTGTTTTCATGTTAGATATAATCAAAGTATGAAA TCTTATATCCTAAGAATGGTTATATATGGTTTAGT AGGTTAAGTGTGTTTTGACAATGATGCATAATAA GGATTTAACTTGGAGAAACGGTGACGTGGACAG CTTGAAGCAGACACCCCACCAGATCGATGTTTAA

				GTAGTACTGAACATTCATATGTTTGTTCCACCAAA ATATCTAGTTGCAAACTATTTTTCTTTTTGTTTTAT AAATAAAATTAATTAATTTTTTAATATA
34	Ambrosia trifida	gDNAContig	507	ATCCCACCGCTTTTGCGCTTTGCGCCTCGGTTTTG GACCTCGTCGCTTTAGTGCGCTTCGCGCTTTTTAA AACCAAGCTTCTATCGAGTTTAATGACTAAAATTT AGTAAAATATAATGACCAATATGGAAGGTATTTC ATGACAATTAACCCTAAATATATTAGGTAACCAC AAAGGAGGGCTCTCTGTTGGGAAAGCAATATCC TCCGGATGCAAAGCAGCCGAATCCGTGATTGCAT ATTTGGATTCTTATTCGGACCAGAAGTAGAAGGA TGGGTGTTGCTAGATTATGTTTTAACCGGTAAAC TTTATTTCTTATATCTTATTTTTATTCTTATTTTTCA ATGCAAAGAGTCAAACGACGCAAGTGTGATATC AGGATTGGCCGGAGAATGTAGATCAAAAGAGTT TTTGTTCGCTCGAGGTTGGATAAATTTGACGAAA ATTCGCTTTTCGTTTTGTGTTTTTGAAGGTGAGCA AGGATGGTGTTGTATAAACTTATTGTT
35	Chenopodium album	cDNAContig	1648	AACCCTCAAAAGAAAATTTTCACTGCAATCTTTGT AGCCTTCTTGTTAGCAAAATACTCGGACAACTAA TCCTAGCAACAGCGCTATTTGTTTGAGTATTGTG AGAGGTAATCCACTACCTCAGCTGCAGATTCATA AGCACCCTCTATACATCGCCCCAATGCAACACCT GAAACATAGTTGCCACCAAGAAACAATCCCTTGA ACCCAGCATCAGTTAGAGCTGCTTTTGCAGCATC AAGCAGATCAAAGTGGCCAATCAAAAATTGTGG AATTGCTTGGGGCCATACTCTCACGCCCAAAACC CGGGGATCTTTTGCATTAGGATTTATGAGAATGT TTCTCAAGTCCTTGTCAACTGCCCCAGCAAGTTCA TCTTGCGTCTTGTGTAATATACTAGTGTTTGTAGA ACCTCCAATGTAACTCAAAATTAAGGTCCTACCA GGTGGTGCTCGACCAGGGAAAAGCGATGAACTA TAAATTGATCCCAAGGTTTCAACACCCTGACTGC GGGGATGCAATTGCCCAAATCCTTGAAGTTTACC ATCAATCAAACACTCTGATCTAATTGCTTCACTAG GATAAGAAAGTGACACAGCTGCAACTGGTGGAT AGTAGAACTTTGCAAGTGATTCTGCAGCAACATC TGAAAGTGGACGAAGGAGGCTACTTGCAATATG TGATGGGACAGTCATCACAACACTTTTGGTCCGT ACAGAAACCAGTCCATCTGGTGTTTCATAAGTCA GATTATATTCTCCATTTGGCAACTTAACAATACTA GAAAGGGTCCATGATAGTTTCACTTTGCTGCCAA GCCTTTCAGAAATGGCTGTAGGCAACATAGTGA GTCCTTTCCTGAAGGATCCAACTGTCTGGCCCTTA GGTTTAGGGAGGCGCGGGTCTCGAGGTGGCTTT GGATTGTTCTTTCTTTCCTGGATTGTTTTGAGGGT ACCACCAATGATACTACCACCCTTTTGTTCCAAGA TCCAAACTTTGCCAAAAGCAGCTTTCATACTCAAC

				TTGGAAGGATCGCCAGCATACACGCCTGAACAA AAGGGTTCAATCAAGCGTTCAAATACTTCATCAG CCCAGATTACGACGGACAAAATCTTCAACAGATT CCTCGTGAGCTGGAGGAGAAGGACGTAAGCCAA GAGCACCGAGTCCAGACCTAATCTTGCCAGGGA AGCTCATAAGGTCAAAGAAAGGGAGGTCAGTGG GCTTGGACGGTACAGGCCTCAATTTGCCATTCCA CAACACAAAACGAGGGGCGTTAGGATCTCCAAA CACCAATTCATCTTTCAATCCACTGTCAACAGCCA TGGTGAGCACTGCATCAGATGGCTGGAAGCTGT TAGGTCCCTCTTCCCAGATATAGCCATCGGCCTCC ACAGTAGTGATGTTTCCACCAACTCGATCTTTAG CCTCCGTGACAATGAAATTTGGGGAGCGGGAGG AGTATTTTGTAGAGAGAGCTTGTGCAATGCCAAG ACCACTGATTCCACCACCCACAATCACACAGTCA AGTACTTCAGCGCCATCGATTCCAACAGTAGCAG TGTTTGTGTTCTGGTAATTGACTGCTGAATTTGA GGTCGAGACTGTGGAGCAACAGATAATGGTGTT GGTAGCATTATTCTGTGAA
36	Conyza canadensis	cDNAContig	1653	CGATTCGAGTTCCCGGCCATTGCTCGATTGCGTG GTCGTCGGCGCCGGAATTAGCGGACTGTGTATA GCGCAAGCGTTGTCAACGAAGCACGGCGGCGAC GTGGTCGTGACAGAGGCGCGTGAGAGAGTTGG AGGAAATATATCGACAGTTGAAAGAGATGGTTA TTTATGGGAAGAAGGTCCTAATAGCTTTCAACCC TCCGATCCTATGCTTACTATGGTGGTGGACAGTG GATTGAAGGATGATTTGGTGTTGGGTGATCCAA CTGCACCTCGGTTTGTGTTATGGGATGGTGATCT GAAGCCGGTGCCTTCCAGTCCATCTGATTTGCCT ACCTTTGATCTGATGAGCCTTGGTGGGAAACTCC GAGCCGGTTTTGGGGCTCTTGGAATCCGCCCTCC ACCTCCAGACCGTGAGGAATCTGTTGAAGAGTTT GTCCGGCGTAATCTTGGTGATGAAGTTTTTGAAC GTTTGATTGAACCATTTTGCTCAGGTGTTTACGC GGGGGATCCATCAAAACTTAGTATGAAAGCAGC ATTTGGAAAGGTTTGGAAGCTGGAGCAAAATGG TGGTAGCATTGTTGGGGGAGCATTTAAAGCAAT CCAAGCTAAAAATAAGAGTACCAAGCCTCCTCGA GACCCGAGATTACCAACACCGAAGGGCCAAACT GTTGGATCTTTTAGGAAGGGACAAGCAATGTTG CCTAATGCCATCTCAAAAGGGTTGGGTAGCAGA GTGAAGTTATCCTGGGAGCTCGTAGGTATCACTA AATCTGAGAATAGAGGGTATAGTTTGACATATCG AACACCAGATGGATTGGAAAGTCTGCAGACTAA AACTGTTGTCATGACTGTTCCATCCTATGTGGCTA GTGACTTGTTGCGTCCTCTTTCGGTGGAAGCAGC AGATGCTTTGTCAAAATTTTATTATCCCCCGGTTG CAGCTGTATCTGTTTCCTATCCAAAAGAGGCAAT

				TCGTGCGGACCGTTTGATTGACGGTCAGCTCAAG GGTTTTGGTCAGTTGCATCCACGAAGTCAGGGC GTGGAGACTCTAGGTACCATATACAGTTCGTCTC TTTTCCCTAACCGTGCTCCACCTGGAAGGGTTCT GCTCCTGAACTACATTGGAGGGGCTACAAATCCT GGTATTTTATCAAAGACGGAGAGTCAAATTGTTG AAGCAGTTGATCGCGACCTACGGAAGATGCTGA TAAATCCTAAAGCAGGAGAGCCATTGACCTTAGG AGTGAAAGTGTGGCCTCGAGCGATCCCACAGTTT CTGATTGGTCATTATGACATTTTAGAGGCTGCTA AATGTGCTCTTAGTCTTGCTGGATACCGGGGTAT GTTTCTTGGAGGGAACTATGTATCTGGTGTAGCT TTAGGTAGATGTGTGGAGAATGCCTATGAGGTT GCAGCCGATGTAAGTAATTTTTTGTCACGGGGCG TGTACAAGTAATACGTCACTCTTCGGAAATTAGT GTTTATGAGGTTAGTAATTAAAGTTTTGGCACAA GGCATGTGGAAGTGAAAACGCGGACTTTCAGTG AAGTTAGTCATCTATTCTCAAGCCTCATGGCTAAA TGTAATTCGAGTTAATATACTAAAAAAAAAAGAA AAAAAAACAAAACATGTCGGCCGCCTCGGTCTCT A
37	Conyza canadensis	cDNAContig	600	TTAGGTGGAATGCAGACACTTACAAATGCACTGA GCAAAGAAGTTGGACAACATGAACTTAATCTTCA ATCCAAGGTGCTTGAAATGTCCTATAGCTGTGAT GATAACACTACTGGGAATTGGTCGATCTATTGTG CTCCAGATCAGAACAAACAATTAAATCAGCAACC TTTTGATGCTGTGATCATGACTGCCCCACTTGGC AATGTGAAAGAAATGAAGATTACAAAGACAGGA AGTCTGTTCCTGCTCAATTTTATACCTGAGCTTAG TTATATGCCAGTTTCAGTCATAATCTCTACATTCA AGAAAGAGAATGTGAAGCGGCCCCTTGAGGGAT TTGGAATGCTTGTTCCTGCCAAGGAGCAGGAAA ATGGTTTGAAGACGTTAGGCACTCTCTTTTCTTCC ATGATGTTTCCAGATCGTGCCCCTGAAGACTTGT ATCTTTATACCACCTTTGTTGGGGGAAGTCGAAA CAAAGAACTGGCCAATGCTTCGAGGGATGAGTT GAAGCAGATAGTAACTTCTGACCTCAGACAGTTG CTTGGAGCAGAGGGAGAGCCACAATTTTTGACT CACTATTACTGGAGCAAAGCATAT
38	Conyza canadensis	gDNAContig	10631	AAAAGTATATTTAAAATTTTTTGCCCACACCAAAA AAAATTTTAAAAAAAAGAAGTACATATGCAATCA ATGACATGCGATTTCAATCCCAACTTTCAAATCTC AATTTTTAAATGCTAGTAGCTATAAGTAAATAATC TCCATTCTCCTTCTCTATACATCTTTTCTTATTCAA CAGGTAATACTTTCATTTATTAATCATAAAATTAT ACATATATATTTTCCCTAATTTTTAGGTTTCTTAAT TTCTTTTGACGTGAATTGAAAGATGAAAACGTGA TGATAGATTGGAAGAGTTGAAGAGGGGTTTTGT

				TTTGGGGAATCTCATACATAACACACTAAACAAC ATATTATCAGTTATCTTGTATTGATTTAATATAAA ATATGAGTACTAAAATACCATTATATGGATCGTA TAAGTTTAGTGAATAGTTCGTGCTTTTGGTTATAC GACGAAATTGTAGTTGGTTTATTATATCGTCTTTT GAGTTTGCATTTTGGTTGTAATTGGATGGTTATT ATTTTGTGGGTATATGAATTTATTGGAATTTGATC GATATATTAAAATTTTTGTACCTATATAATGTTTT AAATTTGTCACCTTACGATAAAGTTCCTGGCTCC GCCTTGATAGCAGCCTTCATGTAAAATTGGTTTTC ATAAACGTTCTGAGTTTTTATAAATTTTGTAACAT GTCATTCTTCTGGAAATATGCTTCTCTTCAATTTA ACGCGTATATGAGCGTTGCATTCGCATATAATCG AATGTCTCGTGGAAAGTACTAAAGACTTGGCCAA CGTTAGGTTTCATTATCATCTTCTAGGGGATTGTT TAAGTCCAACATAATTAAGAATTTACAAACAGAA GGAACAACGTAGGAAAAGTCATAATCAATTGAA TAGTTTGATTAGTCAATTTATCAGTACTTAAACTA AGATATAGTAAGATGAGGTTGAAAAACAACTAC TATAACATACAAACATATATGGATCTTCCTTAAAT AATAACAATGTTAAAGATTACTGCAAAAATTACA GACCTTCATTTTCAGCAATGATGGTATGAAGTTG AAATAATCGTTTGTTGTTTTCAATTAACATTTTTTC ACAAAGGGAGAGAGATAAATATGGTGATCAGCT TTATATTTCAATATAATGTGAAAGGTCTGAAAAA AAAATTTGACCAAGTGTAAAAAATATGTTTTGGA TAAATAAAAGTTAATTTAAATAATCTACTAAAATT AGCCCCTGGTTTACAAATATCATTTCACTTATAAT TTATTAACCATAATTTACTAATTTGTTCAGTCAAA CTTTTTTTTTTATATAGTTTCTTTATTTAACGTACT CACAACACATTACAATCTCTCATATTGGGTATTTT TACTGCTGCATTACGTGAGTTTTTTTTTATTGTAT CATATAATTTTTGACAAATGATTTTTAATAAAACA AACCTTTTCACTCTTTAATGGTGAGGTTTCAATTC CACAGTTTAATCAATTGCCGATCGATGTATATAT GTAATTTTTAGTTTTAATTTAGTAAATACAAAATT ATTTAACTAGGGTATAGGAAGAGTAGACTTGAA AATATGGGTGATAATTTCTTGATTCTTTCAATTTG AGTAAGTTAAAGAAATCTTAACTCTTCAAATTTTG GCCTTTAATTTATATCTAAAGGTTAATTTTTATCT AAAGGTTAACATTACTATAACTTGGACTAATTCCC TCCCTAAAAATATATACCCATTTTCCTTATCTGAC TTGGAAAATAGTGGGGTAGATCGGATCTGACCT AACCTGATTTGACCCGATCCGACCCGAACGTTGA AAATGAAAATTAGTTTACTAGAGGTGGTTCACCC ACAGAGAAATTATACCAAACCGAAACAACCCAAC AATGGCTTCTCCAACAACAACAACAGATGATAAC AAAGGTAGATACTATTTCTTTTTCTTCTTAATAAT

				CTTAATATGTTATTATTTTCATTGTAGATAATCCA GTTCTGCATTTTGTTGCACAGAGAAAGCACCTGC TAAGAGAGTTGCAGTTGTTGGCGCCGGTGTCAG GTCAATGTTACTACTTTCATATATATAATATATGT ATCTTGCGTTTTATTTTACTTCTTACTTTTTACGGC GAAATACCCAAATATCCCACCCCACGGAAGGTTA TGTAGACTTTGGTTTTCTTTGACCTCTATAGTTGG TTACTTGTTATGGCCATGAAATGAAAGATTCCTA AACGAGGGTGGAGATTACTCTAGCGTTTGTTTTG ACCCCAAAAATGCTTTGCTTGTCGGAGGACATGA CCAATATTTAGAGGACTAGGATTAGCTTAGCGGA ATATGGTAGATAAGTAATCCTTTTAGGGGTACTT TATATAATTGTGGATTTTCATGCATGATACCTTTC TTATATGCTCATATGACTTCTTTGCACTGTTAGGG GTAGTGTTCTTGACAGCTAGGTGACCTATGCTAC TTTGTTTCATAGGTCGATTAGGGATTAGCACCCA CTATTTTTTTATTTTTTTGGAAGGCATTAAATTATA TTATATTAAAGATAAAAATTGCCAGTAAGAAACT AGCCGATACATAGACTGTCCAATCCAAAATAGAA AACTAGCACCCACATTATATGTGGGCCCACCGGT CCCTAGGACTTCCTAGTAAATATCTACTTATATCT ATGTATGCATGGCTGATACCAACCCTATTTGCTTT TGTGACTTGCTGGGAGGAGGTTAAAGGGGTTCT TGACTTCTTGCACATGCCACTCGTACTACCAAACC TATTTGCTTCTATGACTTGCTGGGAGGAGACATG CCCCTATTAATTGTTGCTCTCATCCCACATGTTTG GTTCTATGCAGACGGTTATATTTATTATGTTTTTA TGATGTTTAATATGTTCAAATGTCTTATTTACTAT GTATTGTCCAATTTGGGCTATGTGGTATGTCTTCT ACCCTTGTCTACTCTTAATGTAGTAAGAGTATCAT CATACTCGATCGACAGGTATGGTTACTGAACTCT TTACACTCTCCTACTTTTGCCTTTTTTGGATGGAG GTCCTTATGGAAGTAGTCTTTCTGCCTCTGGGTA GAGGCAAGACTGTCTACATCTCACATCCCCCATA CCCCTCGCACAAGAATTGGGTCATGTTGTTTTTGT GGACTCGAACCCAGATGGTAAGATGTTTCCAATG GGGTTTACATATTGTTGATTTTTTGCTGCTAGTAT AATATATTATTTTGATTATTCGTTACATGTATGAA ATTTGTAAATAAATTGGTGAGTATAGTAGTCTAG TGCAACATGGTGATTGATTGATATCTAGAGGAAT GGCTGGCCATATTATGTTGAATCATGAATGAATG ACTTGGTTTGTTTCAGTGGGCTTGCGGCTGCATA TAAGTTAAAACTACATGGAATAAATGTCACTGTT TTTGAAGCCGGTGAGATAGCCGGAGGGAAACTA AGAAGCATTTCACAAAACGGTTTAATATGGGACG AGGGTGCCAATACTATGGTATGATATCGATGTTA GTTTGCTTATAGACATAACTTCTTTTTTTTTATTTT TTTTAAAAAAAAGTTGTTTTGATGCTCTTTTACTC

				CGTATTTGTAGACTGAGAGTGAACCGGATGTCA GCAGGTTGCTTGATGATCTTGGTCTTCGAGATAA ACAACAGTCTGTAAGTTATATGCTGTTGGATATG GAACATCATGCTTCCTGTAGCGTGCGTTTGAAAA TTTATTTTTGCAAATTTCTCCCATTGTATACTAAAT GACATAGTATAAAGAAGAGGAAATTGTTTATATC ACTTTTATTCGTGTTCAAATACGGAAGGCTAAAT CCACTTTATGTGGCTGTGGCTGTAATAATTTGTC GGCTATGGTTCTTGTTTCATTTATTTGTTGTGGTC ATGTGTGTATATGTTTACCATGGCTGAATACTAC ACTATATTTCCTTTTGCAGCCACTTTCCCAACATA AGCGATATATTGTAAGAAATGGAAAACCGGTAC TGGTATGATATCTCAACACCATGCTGAAAACTAA TCCTCTGTTATATATGAACAAAAGAGTTTAAAAG TATAAGATGAAACTTTACTTCAAAATCATTAGTA GAAATTGTGTTTTATTGGACTCAAATTCTCAACCT CATAAACACTTGTCATTTGTTTACAAAGTTTTGTA AACTGATTTTTTGTTTTCTGGGAATGTAAATAATT ATGGCAGTTTATTGTACTGTTCTTTCGTATAGATA GTTATAAACTCAAAACACAAAAAAAAGGTTGTTT TATTACGCGGTCGTAGCTGTCACAATTTTAGTTTT CTTTTGTACTTGCCAAGTTCATGTCTTATATACTG AATGTAACTTGGCCAAACTCATGTCTGCAGGTAC CTTCTAACCCCATTGCACTGATCCAAAGCAGTTTG CTTTCCACTCAATCAAAGGTTCGTTAGTAGCTCTT GGATGTTTAAGTCTGAAGTATTTAAACCGTATCC AATCCTTTCATTCTCATATTATCTACCCAATGATTC TCAATGTCAAGGCTCACAAAAACTCTTTATCCTAC TATGCTTTAAATTTTTAATAAAAATGATGCATGCC CTTTTCGGTTGTATTTAAAAAATTATCCAAAATTG CAATGGTAATATATTAGCACACGAGTTACACAAA TTCTTTCTCATTTTGATATCAGATGATCTCAAAAT TATAATTTGTACTTCATTACATTGTGTATGTGATT ATGGGGTTTGTTGCAAAAATTACAGCTTCAAATA CTTTTGGAGCCATTTTCATGGAAGAAGAAGAACT CGTCTGATACACAAGAAAGGTAATATATAGCCTT CTTTCCTATCTATCTGTTAAACCCTATTAGGGACT AACTTTTTTATTTATTTACTATTTTGTAGTGTTGGT GCATTCTTTCAACGTCATTTTGGGAAGGAGGTAT ATGTATATTGTAACCTTTATCTTCAGTTCAGTTAT TCTGGTATACGTCTTTCTTTTGATATTAAGGGGTC CAAGTTTTCATTTGTGTGGTACTTCAAAATTTGTC CATGCTTTCCGCTATCTTAATTTTCTATACTTAATG TACATATGTAAGGTTGTTGAGTATCTCATTAATCC TGTTGTTGCTGGAACAAGCGGTGGAGATCCGGA GTCACTTTCTGTGAGTAACTCTTCCATGTCCATGC TGCTTCATATTAGTGTGGGGATATACATAACTGA TTTCAATTAACAAACAAAAACACTTTAAAGCATG

				TGGAGGTGCAAATGCATTCTTTGACACCCCTGCT AAGTGCTACCTCTCATCATTAACCTTCTAGGTTAA TCTATCAACCTCATATTTTCCATACAGATGCGCTA TTCATTCCCTGAATTATGGGATTTAGAGAGAAGG TATGTAAGCTACAAAATAATATGTAATTCATTCTT TAAGTGAGCTTGATTATTTGTTCCCATGCAATCTA CTATGATTTTTTATTATAATATTTATAAAGCTTGG ATTCTTAAATTCAATGTGATGACGGTCAAATCAA CATGCAGGTTTGGTTCACTCATTTCTGGGGCATTT CAGTCTATGATCTCTTCTCGAGGCAGAAAAAAGA GTCCTTCAGGAAGCAGCAAGCGCAGGCGTGGCT CCTTTTCATTTTTAGGTGGAATGCAGGTAAGATT GGTGATTTTGTCTGTCAAGATTCATTTATTGGAAT CTAATATATTCTTTAAAGTAGAAACAGGCCATCA ATATATTGCTTACTTTGTTCTTTTAAATCTTTATTC TCATGCAGACACTTACAAATGCACTGAGCAAAGA AGTTGGACAACATGAACTTAATCTTCAATCCAAG GTGCTTGAAATGTCCTATAGCTGTGATGATAACA CTACTGGGAGTTGGTCGATCTATTGTGCTCCAGA TCAGAACAAACAATTAAATCAGCAACCTTTTGAT GCTGTGATCATGACTGTGAGTATAGTTGTGTTAT CTTACGGTGACATTGACATAAATTTGGTTAATGT TTTGCATTTTGACAAGACTAGTTTGTCTCAGCAAC TTTTTTTTGTGCTATCTTGGTGGATCTGGATTCAT CAAATATTCAAATCTGTGGACAAAATATGGAAAT TCTTATTCTCTATTTCAGAAATAGGAGAATTATTG TTTATACACCCATTTGTTTTAATGCTTATTAGTTTG TAAGTGCAATTAGAACGTAATTAACACAGTACAT GCTCCCGAATTAGGCCCCACTTGGCAATGTGAAA GAAATGAAGATTACAAAGACAGGAAGTCCGTTC CTGCTCAATTTTATACCTGAGGTATGTTATTGTAC CGTGTGAGTTCTATCATATGGAATTCGTGCAGAA CCCCTTAGTTTTAGCTCTTTTGAAATTTAAACAAT AATCTTTACCATGGGGAGATATCCTTTAAAGGAA TATTTTCTGGTTTTTATAATGCAGCTTAGTTATAT GCCAGTTTCAGTCATAATCTCTACATTCAAGAAA GAGAATGTGAAGCGGCCCCTTGAGGGATTTGGA ATGCTTGTTCCTGCCAAGGAGCAGGAAAATGGTT TGAAGACGTTAGGTAAAGCTTGCCTGTGTATTAT CTTTTTTTTTTTTTCCTTTTCATTTTTTTTCTTTTT TTTTTCTTTATTGTCTATAATTATTATTGAAAATTC TGTTATGCAGGCACTCTCTTTTCTTCCATGATGTT TCCAGATCGTGCCCCTGAAGACTTGTATCTTTATA CCACCTTTGTTGGGGGAAGTCGAAACAAAGAAC TGGCCAATGCTTCGAGGTAGGCTTGATCATTGCA ATAATTTCTGCTCAATATTTTAGCTTCAAATTTACT CAAGTATTGAGGAAGTAGTTGTATAATGGCTGTC TCTAAAAACTTCATAAGAGAATCTTCTTGACCATT

				CCCTATAGGAATATCAATCTATTATTTATGATGAT TATGATGAGTAAGTAATAATTTAGTTTGGAAACT TTTTTGGAGGAAAGGAGAAATGTTGGAGCTTTCT TGTTGCTGTTTAAGGGGAGAGGACATAACTCAA GTATAATTCTTGCAATAATATATATTTTCTGTAAA TACAGGGATGAGTTGAAGCAGATAGTAACTTCT GACCTCAGACAGTTGCTTGGAGCAGAGGGAGAG CCACAATTTTTGACGTAAGGACACATTCTAGCTCT GCTGCTTTTATTAAACGTTAGTTTATCTAGATCAA AGGATTGCAAGAATTGCATTCCTGAGCACTATAC AAACAATTACACAACTTAATTTTCAGCTTAGACTT TTTCATTGGCGCATGTTCACCAATTGAAATTGTTT CTTGAAATTTAACTTTTTTTTAAAAGCCCGAGGTT CACAGATACTTTTACAATGTACAAGTAGCTTATG CTTAATTTGTCTTGTGTTTTTTTGTTCATGTCATAC ATGATAATGATGTAGTTTAATTGCAGTCACTATT ACTGGAGCAAAGCATATCCATTGTACGGGCGTG ACTATGGCTTAGTTATGGAAGCAATTGAGAAGAT GGAAAGAGAGCTACCTGGTTACTTTTATGCGGGT AAACCTTTTTGTGTTTGAAATAAAGTAGATATATA CATATCTATACTCCCTTATAAAGAGTATTAGATTT CTTAAAATTAAGCATTTTTTTTCTTCCTAAAATACC CCTACTTATACATAAAACCTTTATATATCATCCTTT CCCACATTGTCTCTAATCATTACACGCTCTCATCG ACCTTTTATCACCCTTCGCCACCGCCCTCCTCCAC CGCCTCTCTCGATCTCCACCACCGTCTTCCATCAC CTTTTAGCCGCTACAACGCGCGGGCATTATGCTC GTTTTAAAAAAGCAAGTTAAAAAGGATAGTAGG TTGATAAGAATGACTAAATGAGGACAAATCTATT AGGTAACCACAAAGGAGGACTTGCAGTTGGAAA AGCAATATCCTCTGGATGCGAAGCAGCCGAATCT GTGATTTCATATTTGGATTCATATTCCGATGAGA AGCGTTGCTAGATGTTGTGGTAATACTATTTATG ATACAAAAATGAATGAAATTCTGAGCCTGAACCA TATAATCCTGCATTTTCTTAATTATTATTCAAAGT GCAAGACTTTTCAGGTACGTGTACATCTCAAGAA GTTTTCTTTCCATCGGGATTGGATAAATATGGCG AAAAAATAGTGTGGCTTTTTCCGGTGTCTTTGAA TGTAGTCGAAGGACTAAGCTTTAGTTACTTTTAT AATGCAATAATAATGGATCAAAGTGTTGTAGAAA TTGATCGTTCCGGATGATGTTAAACATTGCAAAA TGTTGTAACAAAACATGGGGCTCGGGTTTTGCTT AATTTGCATCTGTAACAAAGGCTCGCCATTTTTG GGTATACTTTTAACTATCTGTCTCAACCAAATAGT TTAAATAAACGTGCTTGAATTAGTTGTACTTTTAT TATAAATAGTTAGGGGATGAACTTTTGATATAGA ATATACAAATTTTCTATTCAAGTTAATTATAGCCG TTAGAAAAATCCCTAAATAAAAGCCAATCAGGTT

				TTAGGTTTTTTTTTTTCTTGAAAAGTTTTCCATTA TTTTAAGGGTTATTCCTTGATGGTGAGCCATTTTT GCTCGTTATAGCGGTCTAAATAGATTTTACCTGT GACCGGTGTTATCCATTCACATGGTCACCTCCAA AATATGCTTAAGGACATATTCGAACTTGAAATCT TTTGTGAGGAAACATATAATTCTTTCGGGTTTTGC TAAACAAAGCTCAATGGGTGTGCATTAAATAGTT GTACACTTACCATAAAAATCAGGGGTGAGCTTTT GATATGAAAAAGTACAACTTTTTTATGTACTATAA GTGAAACCCTAAGGGCTTTATTTAACATTTTCCAA TTCTTTATCACTAGATAAACTTGATGATGGTTAGC TTCTTTTTTTTTCCTAAACATAGGTGTCTTACTCAC TTAGACTAGACCCAAAAGTTGACTCGCTTTGCGA GCCCAAGTCAGAGTAGGTAAGTCTCTCTTTGGGT CACTAGAGTATTTTTCTTAAGGAGTTTCATCCTTT TAGAGACATCCCCAATCAATGGACCTCCACCCTA GTGTTTTGGTTGGTTAATAATTTAGTATTATTATC CCTGTTATATATTCTTACAAGAGGTTTTAGATTAA AACATTTTAGGTAATATTTTAGGAGTGGTTAGAA AAGGGTTGATCGGAGAGGATGTAAAATATTGTT ACGCAAGGGGTCAGAGTGGAAAGATAAAGGCC GGTATAGTCTTTCATAGGAGTTTGTGTCCTCGAA ATTCACCCAAGAACTTTGTCTTTGTGCTGTCGTAC CTTTTTCTTTTTCTTTCCCTTTTGTCTGTTACTACTC CGTATTAACTGACGTTTTAATATTGTTTAGCTTAA CTAAATAGATTATTGGAGGATTAGTATTTGTTGT TTAGTCATTAATTGAAGGTGAATCAAGATCCGAA TAAATGAATCTAAAACCTATTTGCTTAGTCATAAA TCTTCAAGAAAAGATGAATTGTTTTGCTTAATTTT AATCCTTAAAGCAAACATGAATTGAACTCTTAAT AAAAAAGAGCTAGGTATTTATGACGGTTATTGGC TGCTTTAATTAAGCTCTTTGTCTGCATATCCCGAG TCTATCCAAATCATCACCCCATTATGCTGTCGGTG CTTTTAGGACAAAATCATTAGTGTTAAGTTCAGT CTTTTAAAACCGTTATAAAGCTACAAATATTAGAT TCATCTTCTCTACAGAGAGGTGTATCTTACATTCT TACACTTAAAACGGATAAACAGATGAATTTTTTCT TATTTTGGTAATTTTTTCGAACTTTTTCACTAGTCG CTTCTAAGATTGTATATAATGAGATTCGAACTTG AGACACCCAATTAAGGATTTGTGCCTCGTAAATA CATGAGCTGAAGTTAAAGCCAAATCACTCTTTTC ACTTCTAATACCTAGTAGCATATTCATCATTCATT ATAAAATTTTACACGTTATAGTTGTTCAATTATTT ATAGTCGTCATTAACATCTGTTTGAGAAGTTCATC AATTTCCAGTACACTGGTAATCACTTAAAAATAAT TGGAGTCGTCTGTAGTCCCCCCTCATATGTGAGT ACTTTTTAAATTCAAGAGGACCCATAGATCTTTAA CTACATTTATTGATTTATACATTATTTCATATAGC

				ATTTTCTGCAGATACGATTTGTTATGTAGCAACAT AGACCCATGTTCAGTCCAAACATACTAGTACAAT TTTGGAGCAATGCAATAATGAGTATCTAAAGTTT CATGTGAGAATAATCAATTACTTAGACACTAGAC GTTTTTTAACAATCAGTTTGTTCCTGGTACATTGG CACCAACTCGTCTGAGCCTTCAGCGCGTTGGCCA GCAAGTAGTTTCGGTTTGGTGGTCACTGTCGAGC AATTGGGCACGTTAAGTATTTTTTTTACATTTTTT ATTTCATATGTATCTCTGTGTGGGTGGGTTGTAG GTGATGTGAAGAAGGCGATAGGTCTTATATTAG TTTTAGAAAGTTTTTTTTAAAAAAAATCCTATTCT TTAATGTAA
39	Conyza canadensis	gDNAContig	10185	ATTTTTTTATTTAAAAGTATATTTAAAATTTTTTGC CCACACCAAAAAAAAAATTTAAAAAAAAAGAAGT ACATATGCAATCAATGACATGCGATTTCAATCCC AACTTTCAAATCTCAATTTTTAAATGCTAGTAGCT ATAAGTAAATAATCTCCATTCTCCTTCTCTATACA TCTTTTCTTATTCAACAGGTAATACTTTCATTTATT AATCATAAAATTATACATATATATTTTCCCTAATTT TTAGGTTTCTTAATTTCTTTTGACGTGAATTGAAA GATGAAAACGTGATGATAGATTGGAAGAGCCGA AGAGGGGTTTTGTTTTGGGGAATCTCACACATAA CACACTAAACAACATATTATCAGTTATCTTGTATT GATTTAATATAAAATATGAGTACTAAAATACCAT TATATGGATCGTATAAGTTTAGTGAATAGTTCGT GCTTTTGGTTATACGACGAAATTGTAGTTGATTT ATTATATCGTCTTTTGAGTTTGCATTTTGGTTGTA ATTGGATGGTTATTATTTTGTGGGTATATGAATTT ATTGGAATTTGATCGATATATTAAAATTTTTGTAC CTATATAATGTTTTAAATTTGTCACCTTACGATAA AGTTCCTGGCTCTGCCTTGATAGCAGCCTTCATGT AAAATTGGTTTTCATAAACGTTCTGAGTTTTTATA AATTTTGTAACATGTCATTCTTCTGGAAATATGCT TCTCTTCAATTTAACGCGTATATGAGCGTTGCATT CGCATATAATCGAATGTCTCGTGGAAAGTACTAA AGACTTGGCCAACGTTAGGTTTCATTATCATCTTC TGGGGGATTGTTTAAGTCCAACATAATTAAGAAT TTTCAAACAGAAGGAACAACATAGGAAAAGTCA TAATCAACTGAATAGTTTGATTAGTCAATTTATCA GTACTTAAACTAAGATATAGTAAGATGAGGTTGA AAAACAACTACTATAACATACAAACATATATGGA TCTTCCTTAAATAATAACAATGTTAAAGATTACTG CAAAAATTACAGACCTTCATTTTCAGCAATGATG GTATGAAGTTGAAATAATCGTTTGTTGTTTTCAAT TAACATTTTTTCACAAAGGGAGAGAGATAACTAT GGTGATCAGCTTTATATTTCAATATAATGTGAAA GGTCTGAGAAAAAAATTTGACCAAGTGTAAAAA ATGTGTTTTGGATAAATAAAAGTTAATTTAAATA

				ATCTACTAAAATTAGCCCCTGGTTTACAAATATCA TTTCACTTATAATTTATTAACCATAATTTACTAATT TGTTCAGTCAAACTTTTTTTTTTATATAGTTTCTT TATTTAACGTACTCACAACACATTACAATCTCTCA TGTTGGGTATTTTTACTGCTGCATTACGTGAGTTT TTTTTTATTGTATCATATAATTTTTGACAGATGATT TTTAATAAAACAAACCTTTTCACTCTTTAATGGTG AGGTTTCAACTCCACAGTTTAATCAATTGCCGATC GATGTATATATGTAATTTTTAGTTTTGATTTAGTA AATACAGAATTATTTAACTAGGGTATAGGAAGA GTAGAAGACTTGAAAATATGGGTGATAATTTCTT GATTCTTTCAATTTGAGTAAGTTAAAAGAAATCTT AACTCTTCAAATTTTAGCATTTAATTTTTATCTAAA GGTTAAGATTACCATAATTTGGACTAATCCCCTCC CTAAAAATATATACCCATTTTCCTTATTTGACTTG GAAAATAGTGGGGTAGATCGGATCTGACCTAAC CTGATTTGACCCGATCCGACCCGAACGTTGAAAA TGAAAATTAGTTTACTAGAGGTGGTTCACCCACA GAGAAGTTATACCAAACCGAAACAACCCAACAAT GGCTTCTCCAACAACAACTACAGATGATAACAAA GGTAGATACTATTTCTTTTTCTTCTTAATAATCTTA ATATGTTATTATTTTCATTGTAGATAATCCAGTTC TGCATTTTGTTGCACAGAGAAAGCACCTGCTAAG AGAGTTGCAGTTGTTGGTGCCGGTGTCAGGTCA ATGTTACTACTTTCATATATATAATATATGTATCTT GCGTTTTATTTTACTTCTTACTTTTTACGGCGAAA TACCCAAATATCCCACCCCACGGAAGGTTATGTA GACTTTGGTTTTCTTTGACCTCTATAGTTGGTTAC TTGTTATGGCCATGAAATGAAAGATTCCTAAACG AGGGTGGAGATTACTCTAGCGTTTGTTTTGACCC CAAAAATGCTTTGCTTGTCGGAGGACATGACCAA TATTTGGAGGACTAGGATTAGCTTAGCGGAATAT GGTAGATAAGTAATCCTTTTAGGGGTACTTTATA TAATTGTGGATTGTCATGCATGATACCTTTCTTAT ATGCTCATATGACTTCTTTGCACTGTTAGGGGTA GTGTTCTCGACAGCTAGGTGACCTATGCTACTTT GTTTCATAGGTCGATTAGGGATTAGCACCCACTA TTTTTTTATTTTTTGGAAGGCATTAAATTATATTAT ATTAAAGATAAAAATTGCCAGTAAGAAACTAGCC GATACATAGACTGTCCAATCCAAAATAGAAAACT AGCACCCACATTATATGTGGGCCCACCGGTCCCT AGGACTTCCTAGTAAATATCTACTTATATCTATGT ATGCATGGCTGATACCAACCCTATTTGCTTTTGTG ACTTGCTGGGAGGAGGTTAAAGGGGTTCTTGAC TTCTTGCACATGCCACTCGTACTACCAAACCTATT TGCTTCTATGACTTGCTGGGAGGAGACATGCCCC TATTAATTGTTGCTCTCATCCCACATGTTTGGTTC TATGCAGACGGTTATATTTATTATGTTTTTATGAT

				GTTTAATATGTTCAAATGTCTTATTTACTATGTAT TGTCCAATTTGGGCTATGTGGTATGTCTTCTACCC TTGTCTACTCTTAATGTAGTAAGAGTATCATGATA CTCGGTCGACAGGTATGGTTACTGAACTCTTTAC ACTCTCCTACTTTTGCCTTTTTTGGATGGAGGTCC TTATGGAAGTAGTCTTTCTGCCTCTGGGTAGAGG CAAGACTGTCTACATCTCACATCCCCCATACCCCT CGCACAAGAATTGGGTCATGTTGTTTTTGTGGAC TCGAACCCAGATGGTAAGATGTTTCCAATGGGGT TTACATATTGTTGATTTTTTGCTGCTAGTATAATA TATTATTTTGATTATTCGTTACATGTATGAAATTT GTAAATAAATTGGTGAGTATAGTAGTCTAGTGCA ACATGGTGATTGATTGATATCTAGAGGAATGGCC GGCCATATTATGTTGAATCATGAATGAATGACTT GGTTTGTTTCAGTGGGCTTGCGGCTGCATATAAG TTAAAACTACATGGAATAAATGTCACTGTTTTTGA AGCCGGTGAGATAGCCGGAGGGAAACTAAGAA GCATTTCACAAAACGGTTTAATATGGGACGAGG GTGCCAATACTATGGTATGATATCGATGTTAGTT TGCTTATAGATATAGACATAACTTACTTCTTTTTTT TTATTTTTTTTAAAAAAAAGTTGTTTTGATGCTCTT TTACTCCGTATTTGTAGACTGAGAGTGAACCGGA TGTCAGCAGGTTGCTTGATGATCTTGGTCTTCGA GATAAACAACAGTCTGTAAGTTATATGCTGTTGG ATATGGAACATCATGCTTCCTGTAGCGTGCGTTT GAAAATTTATTTTTGCAAATTTCTCCCATTGTATA CTAAATGACATAGTATAAAGAAGAGGAAATTGTT TATATCACTTTTATTCGTGTTCAAATACGGAAGGC TAAATCCACTTTATGTGGCTGTGGCTGTAATAATT TGTCGGCTATGGTTCTTGTTTCATTTATTTGTTGT GGTCATGTGTGTATATGTTTACCATGGCTGAATA CTACACTATATTTCCTTTTGCAGCCACTTTCCCAA CATAAGCGATATATTGTAAGAAATGGAAAACCG GTACTGGTATGATATCTCAACACCATGCTGAAAA CTAATCCTCTGTTATATATGAACAAAAGAGTTTAA AAGTATAAGATGAAACTTTACTTCAAAATCATTA GTAGAAATTGTGTTTTATTGGACTCAAATTCTCAA CCTCATAAACACTTGTCATTTGTTTACAAAGTTTT GTAAACTGATTTTGGTTTTCTGGGAATGTAAATA ATTATGGCAGTTTATTGTACTGTTCTTTCGTATAG ATAGTTATAAACTCAAAACACAAAAAAAAAGGTT GTTTTATTACGCGGTCGTAGCTGTCACAATTTTAG TTTTCTTTTGTACTTGCCAAGTTCATGTCTTATATA CTGAATGTAACTTGGCCAAACTCATGTCTGCAGG TACCTTCTAACCCCATTGCACTGATCCAAAGCAGT TTGCTTTCCACTCAATCAAAGGTTCGTTAGTAGCT CTTGGATGTTTAAGTCTGAAGTATTTAAACCGTA TCCAATCCTTTCATTCTCATATTATCTACCCAATGA

				TTCTCAATGTCAAGGCTCACAAAAACTCTTTATCC TACTATGCTTTAAATTTTTAATAAAAATGATGCAT GCCCTTTTCGGTTGTATTTAAAAAATTATCCAAAA TTGCAATGGTAATATATTAGCACACGAGTTACAC AAATTCTTTCTCATTTTGATATCAGATGATCTCAA AATTATAATTTGTACTTCATTACATTGTGTATGTG ATTATGGGGTTTGTTGCAAAAATTACAGCTTCAA ATACTTTTGGAGCCATTTTCATGGAAGAAGAAGA ACTCGTCTGATACACAAGAAAGGTAATATATAGC CTTCTTTCCTATCTATCTGTTAAACCCTATTAGGG ACTAACTTTTTATTTATTTACTATTTTGTAGTGTTG GTGCATTCTTTCAACGTCATTTTGGGAAGGAGGT ATATGTATATTGTAACCTTTATCTTCAGTTCAGTT ATTCTGGTATACGTCTTTCTTTTGATATTAAGGGG TCCAAGTTTTCATTTGTGTGGTACTTCAAAATTTG TCCATGCTTTCCGCTATCTTAATTTTCTATACTTAA TGTACATATGTAAGGTTGTTGAGTATCTCATTAAT CCTGTTGTTGCTGGAACAAGCGGTGGAGATCCG GAGTCACTTTCTGTGAGTAACTCTTCCATGTCCAT GCTGCTTCATATTAGTGTGGGGATATACATAACT GATTTCAATTAACAAACAAAAACACTTTAAAGCA TGTGGAGGTGCAAATGCATTCTTTGACACCCCTG CTAAGTGCTACCTCTCATCATTAACCTTCTAGGTT AATCTATCAACCTCATATTTTCCATACAGATGCGC TATTCATTCCCTGAATTATGGGATTTAGAGAGAA GGTATGTAAGCTACAAAATAATATGTAATTCATT CTTTAAGTGAGCTTGATTATTTGTTCCCATGCAAT CTACTATGATTTTTTATTATAATATTTATAAAGCTT GGATTCTTAAATTCAATGTGATGATGGTCAAATC AACATGCAGGTTTGGTTCACTCATTTCTGGGGCA TTTCAGTCTATGATCTCTTCTCGAGGCAGAAAAA AGAGTCCTTCAGGAAGCAGCAAGCGCAGGCGTG GCTCCTTTTCATTTTTAGGTGGAATGCAGGTAAG ATTGGTGATTTTGTCTGTCAAGATTCATTTATTGG AATCTAATATATTCTTTAAAGTAGAAACAGGCCA TCAATATATTGCTTACTTTGTTCTTTTAAATCTTTA TTCTCATGCAGACACTTACAAATGCACTGAGCAA AGAAGTTGGACAACATGAACTTAATCTTCAATCC AAGGTGCTTGAAATGTCCTATAGCTGTGATGATA ACACTACTGGGAATTGGTCGATCTATTGTGCTCC AGATCAGAACAAACAATTAAATCAGCAACCTTTT GATGCTGTGATCATGACTGTGAGTATAGTTGTGT TATCTTACGGTGACATTGACATAAATTTGGTTAAT GTTTTGCATTTTGACAAGACTAGTTTGTCTCAGCA ACTTTTTTTTGTGCTATCTTGGTGGATCTGGATTC ATCAAATATTCAAATCTGTGGACAAAATATGGAA ATTCTTATTCTCTATTTCAGAAATAGGAGAATTAT TGTTTATACACCCATTTGTTTTAATGCTTATTAGTT

				TGTAAGTGCAATTAGAACGTAATTAACACAGTAC ATGCTCCCGAATTAGGCCCCACTTGGCAATGTGA AAGAAATGAAGATTACAAAGACAGGAAGTCTGT TCCTGCTCAATTTTATACCTGAGGTATGTTATTGT ACCGTGTGAGTTCTATCATATGGAATTCGTGCAG AACCCCTTAGTTTTAGCTCTTTTGAAATTTAAACA ATAATCTTTACCATGGGGAGATATCCTTTAAAGG AATATTTTCTGGTTTTTATAATGCAGCTTAGTTAT ATGCCAGTTTCAGTCATAATCTCTACATTCAAGAA AGAGAATGTGAAGCGGCCCCTTGAGGGATTTGG AATGCTTGTTCCTGCCAAGGAGCAGGAAAATGG TTTGAAGACGTTAGGTAAAGCTTGCCTGTGTATT ATCTTTTTTTTTTTTTTCCTTTTCATTTTTTTTTCATT TTTTTTTCTTTATTGTCTATAATTATTATTGAAAAT TCTGTTATGCAGGCACTCTCTTTTCTTCCATGATG TTTCCAGATCGTGCCCCTGAAGACTTGTATCTTTA TACCACCTTTGTTGGGGGAAGTCGAAACAAAGA ACTGGCCAATGCTTCGAGGTAGGCTTGATCATTG CAATAATTTCTGCTCAATATTTTAGCTTCAAATTT ACTCAAGTATTGAGGAAGTAGTTGTATAATGGCT GTCTCTAAAAACTTCATAAGAGAATCTTCTTGACC ATTCCCTATAGGAATATCAATCTATTATTTATGAT GATTATGATGAGTAAGTAATAATTTAGTTTGGAA ACTTTTTTGGAGGAAAGGAGAAATGTTGGAGCT TTCTTGTTGCTGTTTAAGGGGAGAGGACATAACT CAAGTATAATTCTTGCAATAATATATATTTTCTGT AAATACAGGGATGAGTTGAAGCAGATAGTAACT TCTGACCTCAGACAGTTGCTTGGAGCAGAGGGA GAGCCACAATTTTTGACGTAAGGACACATTCTAG CTCTGCTGCTTTTATTAAACGTTAGTTTATCTAGA TCAAAGGATTGCAAGAATTGCATTCCTGAGCACT ATACAAACAATTACACAACTTAATTTTCAGCTTAG ACTTTTTCATTGGCGCATGTTCACCAATTGAAATT GTTTCTTGAAATTTAACTTTTTTTTAAAAGCCCGA GGTTCACAGATACTTGTACAATGTACAAGTAGCT TATGCTTAATTTGTCTTGTGTTTTTTTGTTCATGTC ATACATGATAATGATGTAGTTTAATTGCAGTCAC TATTACTGGAGCAAAGCATATCCATTGTACGGGC GTGACTATGGCTTAGTTATGGAAGCAATTGAGA AGATGGAAAGAGAGCTACCTGGTTACTTTTATGC GGGTAAACCTTTTTGTGTTTGAAATAAAGTAGAT ATATACATATCTATACTCCCTTATAAAGAGTATTA GATTTCTTAAAATTAAGCATTTTTTTTCTTCCTAAA ATACCCCTACTTATACATAAAACCTTTATATATCA TCCTTTCCCACATTGTCTCTAATCATTACACGCTCT CCTCGACCTTCTATCACCCTCCGCCGCCGCCCTCC TTCTCCACCACCGCCCTCGATCTCCACCACCGCCT CCCTTTTATATTGTCATCGCCTTTTAGCCGTTGCA

				ACGCGCGGACACTATGCTCGTATTAAAAGTAGTA ACGTAATAAACATAAAGTTTACGTAAAGTTTATA TATTTCATTATTTTGTTATGATTTTGTACTGATGA ATATATATTTAAGCTAAAATCATTCACTCTAGAGT GTAAGTCGAACGGGTCCAAACTGAACTAAACTAT TTGTCTATGGTAGTCAAATTCTTAATCTTTTTGGT ATCGATCGTTGTGTAGTGTTGCACACCTCACTTG ATATTAGTTTTATGTGATTATATATGGTTAATTTA ATTTTTCTTTGATTTTTGATCATGGTCTTAAATATC ATTAAAGGTGAAGAAACATGTGAAGAGGGATAA ATTTGGAGAAAGAATGGCATCACTAAAACAGAT AGTGTCACCCTATGGCAAGGTTAGTCCTTCTTTA AGTTTATTAATTATATGTAATTTGTTTGATTAGGT ATATCATATATGTATACTAGTTGTTTTGATTTCCA ATCTATACAAGTAGGATTTTGCTAAACATAGTTG TAAGGGTTATAGTTACAACACAATAGAATGGTAT ACATACATTATATATATATAAAGATATATAACTGT TTATTAATAATAATCTTTAACCGTCATGTAAACCA ATTTACTTTGCTTTATCCATATCCTTAAAGGCTAT GAATAGCATAGTCGATGTAAGTATATGGTTGCTT AGACGGTGTGTTAATGTTGATCGTACAGGAGTCT AGACTTGGACCATTGTGTTTTAGAGAAGAAGGG AATCGAACGCAAAGGTAAAACTTCCTTTATTTTTA AGAGCATAGTTATAATATCATTCAAATTTAACCA ACAATTTCTGTTACATACATCGAAATAGGCTTGAT TACTCATACCTATAGAGATGAGTGACATGTGTGT ATGAAGATTTATATATTGAATTGTAGGATATCAT TTTCCCATTTCTAATGTACTAGTTAATTATGGTTT GCGGTTTTTTTCTTTGTTGTATGTCCATTACAAAA TTACAGTTGGACATCTTCTTGGTGGAATTCAGAT GATATAAAATAGTTAATTTTACCAAACACTACATC ATTGGTAGAGAGAAATTAGAACGTAGATAAATG GTTTGTAAGTTTCAAAAGAGATACTCGTATTACA TAAAATGTTGTCTTTTGCAATTCGCAGATTTCCAA TTACAACAGATTTGACACAATGTTCTATTATTTGT TAATCCAACCATGAACCACTAATAAAACAGTACA AACATCTTGAATAAAAAAAAAGCCACCAATACATT ATTGATTGTTGTATGCTTTTTGTCTCCATATAATG ACCAGTAATATCAAAAAACATGTATTTTATTCTTA TTCTAGCTTAAAAAGGTTCAAAAATGCACATCCA ACTTTCTCTCTTCTTTCCAATCATAGCTTTTCAAAT TAAAAGCATACACGTAAAAGAAACATATGGATG TAGATTGATATGTGTGTGGGGGGTAGTTGGTTA ACCATGTCACGTGCTCTGCATCACCTCCCATCCTT GGACCCCAATTTGTTTTTTGTACCTACTACATATT TAAGTAACTTTATGGCACCTCACCAAAAACCAAC CAAACAAACCAAACTCCCAACTATACATCACTTA ATTGCACACACACATATACCTCAACAAGTACTTAC

				ATCTCTCCCAGATTTCTGTCATTCCAATTTTCTTGT TTTTAATCACAATTTTGTTGTTGTTGTCAATGTCT GTCTCTTTTCAAACCAGCTAAAAAAAGAAGCAAA TTCTTGATTTGATTCAGCTGTTGTTCCACTTGTTTA TGGTTAGTCTTTCTCATTCTTTCACCCCCCAAGTTT AAATCTTTGAGTTAATTTCTTCAAATTCCTGTGTT TTTTGAACCGGGTTTTTATCAGTTTTGTTGAGTTT AGCAAAAAAAGTAGAGTTGGGTATGTAAAGATTG AATCTTTTTACTGGGTTTATGTAATTTCTTTGAAA TTTATAAGTTTCTTGCAATGGGTATATGATTTTCT ATTGATTGAAGTGGTTAATAACAGGATTTGGTGA GTAAAGTTTGAATCTTTCGAGTTATGGATTTATGT CATACCTTTTCTTGCCCTTCAAAATAAAGTCAAAG CTTTAGTTTTGTGATTTGACTTTGGTATCCCTTCA AAATAAAGTCAAAGCTTTAGTTTTGTGATTTGAC TTTGGTATGCTGTTGCTCCCATGAATATTTTCATG CTGTTTGTAAATTGTAATATATATTTTGATAAATT CAATTTTGTTATATTTGTTTCCTGATAAAGTTTTA ATGTGATTAGTGATTACTTCAATTTGATGAGTTC
40	Conyza canadensis	gDNAContig	2634	CGTCACCATACTGCCACGGTCGCCACACCTTCGT CTCTATCACTATCACCGTCGCATCGCACGGACAT CATCTAGTCAATATTTATTTATGAGGAATGGAGA TATATCTATACTTTCATATTAAATTAAACTGCCTA TTTTTTTCAACTATTCTACCTTTGAAATGCCTATTA TACCCTCCTATAAACAACTATCCATTCTACTCTTTT AATTGATTTTCTCGTACTACCCTTCCATCTATTTCC CAATACTTATCCCTAATCTCTAATCCCCTCCTCTCT TGCTGTCGCCGAAAACCTAATAGAAAAATTAGTT TCATTTCTACGGCAACTACCATAAACCTACAAAA AGATTGGTTTTATCTCTCCCTCACCACCACCACCA CAAATCACCCATTCCTTACAAGCTCTCAAATCGGT TAGGTGATTTTCCATTGAAATCGCTTGTTTTTATT TTATTTTATTATATCTAATTTCCTAATTTAAATCCA TTGTTTTTGTATTTTTCCCAATTTTCTTTTTGAATTT GGTTTGGGTTAATGTTCTGATCATCCATGTATTTT GTTCGTACATTCACAAAAGAAAAAGGTACCGACA CATTTAATGATCACTTTTTTAAAGGTACCGTCGCA TCATGTGGGTACCCATCTAGCTAGTTGATGAATA AATTATTAGTATTGTTAAATTTAAGTTTTTTGTTTA ATGAGTAATTTAAGAGTATGTTTAAATTTGGGTT AAAAAAAAAAGAAAAAAAAAGTAAATGTGTATT GATTTGTAAGTTGTAACCGTCTAATATTATAAAA AGAAAAAGAGAAACCACTCCTATATAAAACAGTC AAGCCTCTTGTATCATTAACCGGGTTGATTTAAG AGCGAACTTTGATCGAATTTTGGGTTTTCGAATTT GCTTTCCATCCACATCGATATCTGCCCAAGTAAG AAACCCTCGTTCCTGTCTCTCTTTAATTTACATCTC CATGTGCTTTTCGATCCTAATTATAAATATGCGGA

				TAACCGCAGCATTACTACCCGACGCCCAAAGGAA GAGGAAAAAGTCGTCGTCAAAGGCAGATCAACA AATATTGATATATTGATAATAATGTAATAGAATA TGAGAGGCTTCCAGCCAAGTCCGCATGTCGTTTC AAGTCTGTTTCCAAACACTGGAATTCGTTCCTATC CACACGTATGTTTGGACCACCAGCTCCATCACAT GAACAAATCCTATAAACTTCTCTTACTTGACCAGC TAGCCCCCTGTAGATAAGGATTTATGCAGCAAAC CCCTCAACCACGTACGGTTCCATTACCGTCGGTTT TAATCGACTGGAGGAAGCCGATCCTAGATTTAAT TCGCTTGTAGGATGGATTGGTATGTGTAGCCGAT CCTTGATCTATATTTCAATTTCACTGGCTAGGTGT AGGCATTATTATTAAGCAATGTGATCGATTGATG GCTAATTCAGGCGTTTGAATTCAACTTTTCATTAG TCAAGTAATTATTCTCAAGTTTATATATTAATAGT ATATATACGATATCATAGTATAATATACAAAATA AAATCTATCCAAAAGGAATAAAATCTTTGGAAAG GAATAAAATCTATCCAAAAAGAATAAAATCTATC CAAAAGGAATAAAATCTTTCTAAAGATTTCGGAC ATTCACTATAAATAGTGACAGCAGATGAGATGG AAAGAAAAAAAGAAAAAAAGGAACAAGAATACT CCTTTGGAGAGAATACTTGAACTCTCATCCCTCA AATCATTGTTAACATAATCACTACCCTCATAGGAT TGGATGGCGTAAAACCGTATACGTAATACGGTTA CCAGCAGGGATCGCCACCCAAATATCCTAATCTT CCTCACACCTTCCCATGCTAGGTGGCATGGGACC CACATAACTCTCTTTATTTATATAATGATATTAGA TTACATACTCCTTGAACCGTAAGTGTTAATCGAC GTATCATCATATATACACTAATATCTATGTTAAAT AATTAATAAACAAAATATGACACATAAAATTTTT GCGAGATATTTTTGGCGAAGCATTGCACAAAAA GCAGCAAGGCTAGGATATTTTTGGCCCACAATGT ACCGCGATGCAACAAAGATTGTCGACAATTGTGA TAATTGCCAATGCCATGCTCCTATCATACGTCAAC CCCAACACGACTTGACAAGTATTTCAAGTCCATG GCCGTTCTATCAATGGGGAACAGATATCGTAGG ACCATTCCCAGAAGCACCAGGAAAAGTGAAATTT TTGGTAGTCGCAATCGACTATTTTACTAAATTGG CAGAAGCAGAGCCACTGGCAACAATAACTGGAC ATAAAATACTCAAGTTCGTATGGCGCAACATTGT ATGTCGTTATGGAATTCCAGGAATTATCATCAGT GACAACGGAAAGCAATTCGCAAATAACCCATTTC GGGAGTGGTGTGAAGAGCTTAAAATAAGACAAC AATTCACTTCAGTCGCACACAGGTCAAACAGAGG TAACTAACCGCACCATCCTACAAGGCCTCAAAAC AAGGCTAAACAAGGCAAAAGGACAATGGGTAG AGGAGTTACCAAACGTCTTATGGGCATACAGAAT AACAGCGAAAACGGCTACGGGTTGC

41	Euphorbia heterophylla	cDNAContig	1631	ATTGCGTGATTGTAGGAGGTGGAATCACTGGTCT CTGCATTGCTCAGGCACTTGCCACTAAGCACCGG AATGTTGCTCCCAACGTTATTGTCACCGAGGCTA GAGATCGCGTCGGTGGCAACATCAACACCGTTG AAAGGGACGGCTATCTCTGGGAAGAGGGGCCTA ACAGTTTCCAGCCCTCCGATCCTATGCTAACCATG GCGGTGGATAGTGGTTTGAAGGATGACCTAGTT TTGGGGGATCCTACAGCGCCACGGTTTGTATTGT GGGATGGGCAATTGAGGCCAGTTCCTTCTAAGC CAAGTGACTTGCCGTTCTTTGATTTGATGAGCATT GGTGGAAAACTCAGAGCTGGTTTTGGTGCTCTTG GACTTCGGCCTCCACCTCCAGGACGTGAGGAATC AGTTGAAGAGTTTGTGCGCCGCAACCTTGGAGA TGAAGTTTTCGAGCGTTTGATTGAGCCATTTTGTT CAGGTGTTTATGCAGGTGATCCTGCAAAACTCAG CATGAAAGCAGCATTCGGAAAAGTTTGGATGCT GGAACAAAATGGAGGCAGTATCATTGGTGGCAC TTTTAAAGCAATCCAGGAAAGGAATAAAAATCCC AAGCCTCCTCGAGACCCGCGTCTACCAAAACCAA AGGGCCAAACAGTAGGGTCTTTTAGGAAGGGAC TGACTATGCTTCCAGAGGCAATTGCATCAAGTTT GGGTAGTAATATCAAGTTATCTTGGAAGCTTCTG GGTATCTCTAAATTGGACAATCGGGAGTACAGTT TAACATATGAAACACCTGAAGGATCAGTTACTGT GCAGAGCAAGAGTGTCGTACTTACAATTCCATCC CATATTGCCAGCAATATCCTGAATCCTCTTTCTAC AACTGCTGCTGAGGCACTGTCAAAATTTTATTAC CCACCAGTAGCTGCTGTGTCTATTTCATACCCGA AAGATGCAATTCGGACAGAACGTTTAATAGATG GCGAGCTTAAGGGATTTGGTCAGTTGCATCCTCG TAGTCAAGGAGTGGAAACTTTAGGAACCATATAC AGCTCATCACTTTTCCCTAACCGAGCACCAGATG GAAGAATTTTGCTCTTGAATTACATTGGGGGTGC TACCAATCCTGGAATATTGGCCAAGAAAGACAGC GAACTTGTTGAAGCAGTTGACCGTGATCTGCGAA AGATGCTCATAAATCCCAATGCAAAGGATCCACT TACACTTGGCGTAAGAGTGTGGCCTCAAGCCATT CCACAGTTTCTGATTGGTCACTACGATATCCTAG ATACGGCGAAAAATGCGTTAAGTGAACAAGGCT TGGAAGGGCTGTTTTTAGGGGGTAACTATGTGT ATGGTGTAGCTTTGGGAAAATGTGTTGAAGGAG CATATGAAACTGCGTCCAGTGTTACTAATTTCCTA ACCCAGTATACTTATAAATAGTATCTGATGAGAT TTAAGCAAGAGTTCAATTATGCTGCGGCTAAGTA CTGTGAGTTTATTGAGTAGTGGGTAAAAATGTTG CTTTAGGTCTGTTGTATTTGTAATAGTTGCTTCAC GTTTTTCATTAAGGATGGTGTATTCTCTAGTTATG CATTCTTGTTCATTTATCAGGCAAAACGAGTTTGA

				TGT
42	Euphorbia heterophylla	cDNAContig	480	ACAGGTTGTGCATTCCACCCAGAAACGTCAGCGT GGTTCATTTTCGTTTCTGGGTGGAATGCAGACTC TTCCTGACAGGTTGTGCAAAGAGCTTGCAAAAGA CGAGCTTAGACTTGAGTCAAAGGTTTTGTCTTTG TCTTATAATCACGATTCTAGATCGGCGTTAGACA ATTGGTCTGTCTCTTTTGCTTCTAAGGGCAACAAA CGTATGCAAGACTCGTCATATGATGCCGTCATTA TGACGGCACCACTTTGCAACCTCAAAGAAATGAG GATCACAAAAGGCAGAAATCACTTCCTGTTGGAC TTTATTCCCGAGGTAATTTATATGCCACTGTCGGT CATTATTACGACGTTCAAGAAGGAGAATGTCAAG CAACCCCTCGAAGGTTTTGGAGTTCTTGTACCTTC TAAGGAGCAACAAAATGGTCTAAAAACGCTTGG CACACTGTTTTCGTCTATGATGTTTCCTGACCGTG C
43	Euphorbia heterophylla	gDNAContig	4067	TTTATTGTGTAATAATTAAAGGATAATATTACTGT AAAATAATTTATATTATTTAATATAATAATTTTAA TATTATTATTTTTCCTTAAAAGAATTATAAATGAG CTTGTAATGTTCATGAACAATCCATGAATAAGCC AATTGTTAAATAGACCATTCATGAATATGCATTTT GAGCTCGAATTAAACTCAGCTTATTTACATTGTTG TACATGTGAAATCAAGAGAATGCTCATAAAGTGA GTATTAAACCGAAACATTTTATATTTCTTAAAGGT CTGACACATGAATTCTGAGAAATCAAATCTGTAA TATTTTGACAAATGAAATAAATCGTAAAATACAT ATATTCATTTTAGTAAAATCTCTAAATTTTTAATTC TTTCAATCTTAACATCTTCTTCCTCAAATCCTTGTA ACAAATCACAGCACAATATTTTAGCATTCAAATTC ATAGAATATAATTAACCGTTCAAATCTACCAATCC CACCTCCTTACCCACAGCTTCTACTCCGAGTCCAT TCATTAACCCTCCTCTCTTTGTTACAAATTCTTCCA TGTCTTATTTTTACTAAAATCTATGCTATCTATGTT TCCTAAAATTATTCCACCTGCTTTCAGTTTTAATA AAACTTCAGATACTTTGAAGAACTCCAACACTCC ATTAAATGAGACCAAGTTTCGCAAGTCGGGCTAC CCTTTGTTGGGCCCAAGCGCAATTTGGACACCTA TTTTTTACTAAGTTCGGCTTAAGCCTCAGCCCGTC AAAATTTAAAGTTTTATGCGTTGAGCTGGGTTTTT TACAATTATCCGAGCCTAATCCGATAAATAATAA TTTAATTTTTTTTATATATTATATATTGTACTAAAT AATTATTTCAATATTTATATTTCAAAGTTATGGGT GTGCATCTGGTTAAAACCTAATAGAATCGAATAA ATCGAATATCAAATAGAGAAACCAAACCAAATAC GAATCAAAATCGAATTAACCAAATCAAAAATAAA TTATTCCGTTTGGTTAAAAACCGAACCAAACCAA ATTTTTTTAAAAAACAAACTTAAATTAAAAATTTT AACTCTTAAAATCCAAAAATAAGTATTACAATAG

				TTCAAATGACTTAGTTTTGACACATAAATGAATG AGGGTGCATTTTGGGGTTTGATGTTAAAATGATC TATATTTGAGCATTATTAGTAGAATATTTTAAATT TTTATTATGATATTTCAATTCGATTCGGTTATTGT AGTTTTTTCAACACTAAAACTGAACTGAAAATTG AAATGTTTAACTTTAATAAATAAACCGAACCGAA TTTTCAAAGTAACCGAACCAAATTAATAACTCAG TCTTATTCGATTCGGAAATGTAGTTACCAAAACC ATTTGCACACCCATATTTTACACTAATGAATTTTT AAACTTAAATACAATAAATTGTATAAATTATTAAA AATTTCAAATAAATAATATAATCATACGTAATTTT GTCAATTTATTTCTTAAAATCTATAAAAAAAAAAG TTATTAAAATACTATCTACAGCCTTTGGAAATGAT TCCATAAGCCTGATCCGAGCACGGAGTTCTAAAA TACGGATTGAAGCAGACTTGGAATGATACTTTTG TCGAAAGCCCACAAAGTCTGGCCTGTTCGATTAA CATGTCAAAACAATAGAAGAAAATATCTTTTTATT TTCGTGTAAATGAATTTACCAGTAAGGTTGCGTT TATCATTTGTAGCCTTCGTCCAATCAGATTGACAC GCTATATTTCTCCTTGTCAATTGAAGATAACACAG CACTATTTCCCTATTAGTTCTGAGGCCGCCACTAA ACGGAGTGCGCTTGCCTCTTACCACCACCTTTCG CCGCCATGGCCTCTATTTCCGACTTGTCTCTTTTC CGGCCAACACCTTCTCTTGTTCCATCATTTTCCAA ACGCAATTTAAACAACTCTATCCACAAACAATTCA AACTCCGATGCTCAATTACAGAGCAGCCTTCCAC AATTTCCCCATCCAATCCCGGAGACAAATCCTTAT CCGGCAACGGACATTCCGCCTCAGTAGATTGCGT GATTGTAGGAGGTGGAATCACTGGTCTCTGCATT GCTCAGGCACTTGCCACTAAGCACCGGAATGTTG CTCCCAACGTTATTGTCACCGAGGCTAGAGATCG CGTCGGTGGCAACATCAACACCGTTGAAAGGGA CGGCTATCTCTGGGAAGAGGGGCCTAACAGTTT CCAGCCCTCCGATCCTATGCTAACCATGGCGGTG AGGATCCAATTTCTAATTGATTGTCATGTCTAACA AATTATTGACGAAATTTGCTTGTAATTGGAGATT TTGGTTGAATTAGCTAATTTGATCGTATTGTAGG TGGATAGTGGTTTGAAGGATGACCTAGTTTTGG GGGATCCTACTGCGCCACGGTTTGTATTGTGGGA TGGGCAATTGAGGCCAGTTCCTTCTAAGCCAAGT GACTTGCCGTTCTTTGATTTGATGAGCATTGGTG GAAAACTCAGAGCTGGTTTTGGTGCTCTTGGACT TCGGCCTCCACCTCCAGTTTGTCCTCTTTAACTTTC TTATTGTAATTGTTCTCCGATTGAAAATAGTCCCC CGTGTGTAATTTTATCTGCTCGTAACCTTACAATT CTGCTGAAAGTGACAGGGACGTGAGGAATCAGT TGAAGAGTTTGTGCGCCGCAACCTTGGAGATGA AGTTTTCGAGCGTTTGATTGAGCCATTTTGTTCAG

				GTAAGTTAAGATATTTGGAGCTTGTAGTGTTCTT ATTAGTTGACACTGTATCATGTCAAGTTGTGTTAT CAGACCCATTACAACATCTTACCAATCATCACATG AATATTGCTGTATTTCCCATGTAAAATTAAACCGA TACAACATACCTCGACTTAAATTGACGAATACAA TTCAATGTAGTGGTACTTAGTTGACGTCCCTTTTG GTTCGACGACCTCTTTTAATTATGATATGTTGTGT TATATCTAAACACTAAATTATGAATTTCATTCAAA ATCTATGCCATTGTTAATACAAATCATTATCAAAC TTGAAGTGAATTCCATTATTGAAGTTTATATTGCA TGCTCAATCTCATCCATCTGATATTTGATTCATTT ATTTAAGTAGTCCTTTAGCGTGCATATCGTGAAT GGTTCCTTGAGATGTGCTTTTGATCATGTAGCAT CCATCATGGTGATGGCTTATTTGTTCTAGCTATAT ATAAGATGATAAGAGAATGACTAAATGGGTAAC TTGTCTATGCTGTCCAGAGGTGTTTAATTGCTTTG CAGTATCTGAAAAAGAGTCAGTTGGTTTCCCTAT GATGTATGCTTCTCAAACTTAAAATCGCCCTAGTT GATTTTGTTGCTAAATTCGGAAGTTTTATTTGTAT AATTTGTATATCTTGACAAGGTTGTCCTTAATGG GAGATGCTATTTTTCATGTGCAGGTGTTTATGCA GGTGATCCTGCAAAACTCAGCATGAAAGCAGCA TTCGGAAAAGTTTGGATGCTGGAACAAAATGGA GGCAGTATCATTGGTGGCACTTTTAAAGCAATCC AGGAAAGGAATAAAAATCCCAAGCCTCCTCGAG ACCCGTATATTTATCTCCTTGCTTTGAGAATATCT TACATCTTTTGTTTTTGTTGAGTTTCTTGACTCTAG TGCCCTGCAGGCGTCTACCAAAACCAAAGGGCC AAACAGTAGGGTCTTTTAGGAAGGGACTGACTA TGCTTCCAGAGGCAATTGCATCAAGGTAACATTT CCACCGGAATTAAAATTTTATGAACTTTAGATGG TTGTAATAATTCTTGACAGTGGCTGAAGTAATTG ACTGATTACCTGCATTGGTGTTGCAGTTTGGGTA GTAATATCAAGTTATCTTGGAAGCTTCTGGGTAT CTCTAAATTGGACAATCGGGAGTACAGTTTAACA TATGAAACACCTGAAGGATCAGTTACTGTGCAGA GCAAGAGTGTCGTACTTACAATTCCATCCCATATT GCCAGCAATATCCTGAATCCTCTTTCTGTATGTTT TTC
44	Euphorbia heterophylla	gDNAContig	2630	TACACTAATAAATTTTTAAATTTAAATACAATAAA TTGTATAATCATATATAAATTTATCAATTTATTTCT TTAAAATCTATAAAAAAAAGTTAATAAAATACTA TCTACAGCCCTTGGAAATGATTCCATAAACCTAAT CCGAGTACGGAGTTCTAAAATACGGATTGAACCA GACTTGGAATAATACTTTTGTCGAAAGCCCAGAA AGTCTGGGTCCGCTCGATTAACATGTCAAAACAA TAGAAGAAAATATCTTTTTATTTTCGTGTAAATGA ATTTACCAGTAAGGTTGCGTTTATCATTTGTAGCC

				TTCGTCCAATCAGATTGACACGCTATATTTCTCCT TGTCAATTGAAGATAACACAGCACTATTTCCCTAT TAGTTCTGAGGCCGCCACTAAACGGCGGTGCGC TTGCCTCTTACCACCACCTTTCGCCGCCATGGCCT CTATTTCCGACTTGTCTCTTTTCCGGCCAACACCT TCTCTTGTTCCATCATTTTCCAAACGCAATTTAAA CAACTCTATCCACAAACAATTCAAACTCCGATGCT CAATTACAGAGCAGCCTTCCACAATTTCCCCATCC AATCCCGGAGACAAATCCTTATCCGGCAACGGAC ATTCCGCCTCAGTAGATTGCGTGATTGTAGGAGG TGGAATCACTGGTCTCTGCATTGCTCAGGCACTC GCCACTAAGCACCGGAATGTTGCTCCCAATGTTA TTGTCACCGAGGCTAGAGATCGCGTCGGTGGCA ACATCAACACCGTTGAAAGGGACGGCTATCTCTG GGAAGAGGGGCCTAACAGTTTCCAGCCCTCCGA TCCTATGCTAACCATGGCGGTGAGGATCCAATTT CTAATTGATTGTCATGTCTAACAAATTATTGACGA AATTTGCTTGTAATTGGAGATTTTGGTTGAATTA GCTAATTTGATCGTATTGTAGGTGGATAGTGGTT TGAAGGATGACCTAGTTTTGGGGGATCCTACTGC GCCACGGTTTGTATTGTGGGATGGACAATTGAG GCCAGTTCCTTCTAAGCCAAGTGACTTGCCGTTCT TTGATTTGATGAGCATTGGTGGAAAACTCAGAGC TGGTTTTGGTGCTCTTGGACTTCGGCCTCCACCTC CAGTTTGTCCTCTTTAACTTTCTTATTGTAATTGTT CTCCGATTGAAAATAGTTCCCCGTGTGTAATTTTA TCTGCTCGAAACCTTACAATTCTGCTGAAAGTGA CAGGGACGTGAGGAATCAGTTGAAGAGTTTGTG CGCCGCAACCTTGGAGATGAAGTTTTCGAGCGTT TGATTGAGCCATTTTGTTCAGGTAAGTTAAGATA TTTGTAGCTTGTAGTGTTCTTATTAGTTGACACTG TATCATGTCAAGTTGTGTTATCAGACCCAATACA ACATCTTACTAATCATCACATGAATATTGCTGTAT TTCCCATGTAAAATTAAACCGATACAACATACCTC GACTTAAATTGATGAATACAATTCAATGTAGTGG TACTTAGTTGACGTCCCTCTTGGTTCGACGACCTC TTTTAATTATGATATGTTGTGTTTATCTAAACACT AATTTATGAATTTCATTCAAAATCTATGCCATTGT TAATACAAATCATTATCAAACTTGAAATGAATTCC ATTATTGAAGTTTATATTGCATGCTCAATCTGATA TTTGATTCATTTATTTAAGTAGTCCTTTAGCGTGC ATATCGTGAATGGTTCCTTGAGATGTGCTTTTGA TCATGTAGCATCCATCATGGTGATGGCTTATTTGT TCTAGCTATATATAAGATGATAAGAGAATGACTA AATGGGTAACTTGTCTATGCTGTCCAGAGGTGTT TAATTGCTTTGCAGTATCTGAAAAAGAGTCAGTT GGTTTCCCTATGATGTATGCTTCTCAAACTTAAAA TCGCCCTAGTTGATTTTGTTGCTAAAGTCGGAAG

				TTTTATTTGTATAATTTGTATATCTTGACAAGGTT GTCCTTAATGGGAGATGCTATTTTTCATGTGCAG GTGTTTATGCAGGTGATCCTGCAAAACTCAGCAT GAAAGCAGCATTCGGAAAAGTTTGGATGCTGGA ACAAAATGGAGGCAGTATCATTGGTGGCACTTTT AAAGCAATCCAGGAAAGGAATAAAAATCCCAAG CCTCCTCGAGACCCGTATATTTATCTCCTTGCTTT GAGAATATCTTACATCTTTTGTTTTTGTTTAGTTTC TTGACTCTAGTGCCCTGCAGGCGTCTACCAAAAC CAAAGGGCCAAACAGTAGGGTCTTTTAGGAAGG GACTGACTATGCTTCCAGAGGCAATTGCATCAAG GTAACATTTCCACCGGAATTGAATTTTATGAACTT TAGATGGTTGTAATAATTCTTGACAGTGGCTGAA GTAATTGACTGATTACCTGCATTGGTGTTGCAGT TTGGGTAGTAATATCAAGTTATCTTGGAAGCTTC TGGGTATCTCTAAATTGGACAATCGGGAGTACA GTTTAACATATGAAACACCTGAAGGATCAGTTAC TGTGCAGAGCAAGAGTGTCGTACTTACAATTCCA TCCCATATTGCCAGCAATATCCTGAATCCTCTTTC TGTATGTTTTTCATAATCA
45	Euphorbia heterophylla	gDNAContig	1010	AGATTAGTGAATGATCACAACAAATACCGTTTGA TAAGTCCAATTTTTTCTTTTTTTGCAAGATTTGGTT CTATTATAGCTGGGGCAATTCAGTCAAATTTTTCC TCGAAAAAGGATAAGAGCAAGGAGACAAATTCA TCAAGACATAAGAAACGTCAGCGTGGTTCATTTT CGTTTCTGGGTGGAATGCAGGTATTAGATGTAG GATATTACTTATGAACTCTGAAATTTGTATCTAAT ATCACTTTTCTTAAAGCCCCTAAATGATTTTAATA TTAGGATTTTCTTTTTGTATCTAGCTTTATTATTTG CTCGATTTTACTCGTTAAAGCTATGTTTATTTGTT GAGAAGCCTTCTAGAGGCGATACAGATTTTCTTA GCTTATGCAAGTGATTATCCTATGAACTATTTATG TTTTCTTTTCCCGAATCTATTTTTCTTTGCAGACTC TTCCTGACAGGTTGTGCAAAGAGCTTGCTAAAGA CGAGCTTAGACTTGGGTCAAAGGTTTTGTCTTTG TCTTATAATCACGATTCTAGATCGGCGTTAGACA ATTGGTCTGTCTCTTTTGCTTCTAAGGGCGACAA ACGTATGCAAAACTCGTCATATGATGCTGTCATT ATGACGGTTAGCAACTTCTTTACTGATGATATAA TGTTTATCAATTAATCTTTTTGATATCGAAACGAA ACAATTTCATTGTTTACTCAGATTCATTATCACTTC TAAAATTTCAGGCACCACTTTGCAACCTCAAAGA AATGAGGATCACAAAAGGCAGAAATCACTTCCC GTTGGACTTTATTCCCGAGGTACCCTTCTTGCAAA TCTATTGACAAGAATGGATGTCAATAATTCAACC GAAACCATATGAACTATTGCAGGTAATTTATATG CCACTGTCGGTCATTATTACGGCGTTCAAAAAGG AGAATGTCAGGCAACCCCTTGAAGGTTTTGGAGT

				TCTGGTACCTTCTAAGGAGCAAGAAAATGGTCTA AAAACGCTTGGT
46	Euphorbia heterophylla	gDNAContig	855	ACTTTTTTACATGTTCAGGGGGTTATTTGAAACAT TTGAAAGTTCAAGGGGTAACTAGCCCTTTTTGAA CAAGTTCAGGGGTTTTCATGTATTAGGCCTCTATT TAATATTGGATGCTCCAATTGGACACCTGAGCTT TATGTTGTCATAATTAGTAGTAGATATAGCTTTCT TTTAATTTTCACGTGTTTTTTTCGTGTAAATAGAA AGACAGCGAACTTGTTGAAGCAGTTGACCGTGA TCTGCGAAAGATGCTCATAAATCCCAATGCAAAG GATCCACTTACACTTGGCGTAAGAGTGTGGCCTC AAGCCATTCCACAGTTTCTGATTGGTCACTACGA TATCCTAGATACGGCGAAAAATGCGTTAAGTGAA CAAGGCTTGGAAGGGCTGTTTTTAGGGGGTAAC TATGTGTATGGTGTAGCTTTGGGAAAATGTGTTG AAGGAGCATATGAAACTGCGTCCAGTGTTACTAA TTTCCTAACCCAGTATACTTATAAATAGTATCTGA TGAGATTTAAGCAAGAGTTCAATTATGCTGCGGC TAAGTACTGTGAGTTTATTGAGTAGTGGGTAAAA ATGTTGCTTTAGGTCTGTTGTATTTGTAATAGTTG CTTCACGTTTTTCATTAAGGATGGTGTATTCTCTA GTTATGCATTCTTGTTCATTTAGCAGGCAAAACG AGTTTGATGTGCATTCAGAATATGTTGGCAGTTG ATTGACACTCTAAGCTTACAGGAAGTATGGAACT GTATAGCCCATGAGAATCTAAAATCTCTAACACT AGCCGTTAGTACAATGGCCGGACTATGCCCAAGT AGTTAACTGTTATAGCCAGTGTTTTAAAAATCGG
47	Euphorbia heterophylla	gDNAContig	121	AACCGAACCGAATTTTCAGAGTAACCAAACCAAA TTAATAACTCAGTCTGATTCGATTCGGAAATGCG GTTACCAAAACCATTTGCACACCCATATTTTACAC TAATAAATTTTTAAATTT
48	Euphorbia heterophylla	gDNAContig	77	TTTTTTCAACACTAAAACTGAATTGAAAATTGAAA TGTTTAACTTTAATAAACAAACCGAACCGAATTTT CAGAGTA
49	Commelina diffusa	cDNAContig	444	GCTATATGAAACATCAGAAGGATTGACTTCAGTA CAGACTAGAAGTGTTGTTCTGACTGTTCCATCTTA TATTGCCAGCAATCTCCTTCGCTCTCTTTCAAATG ACGCAGCTGATGCTTTGTCAAAGTTTTACTATCCT CCAGTTGCTGCTGTTTCCATTTCATATCCAAAGGA AGCTATTAGGAACGAATGTTTAATCGATGGTGA GCTTAAGGGATTTGGCCAGTTGCATCCACGTAGT CAAGGAGTAGAGACACTCGGAACAATATATAGC TCATCCCTTTTCCTGGCCGAGCTCCCCAAGGGAG AATATTGCTTCTTAACTACATTGGAGGTGCTACA AATACTGGAATTGTATCAAAGAATGAGAGCGAA CTGGTAGAAGCAGTTGATCGTGACCTTAGAAAG ATGCTGATAAAGCCAACTGCTGAGGATCCTCTTC TT

50	Commelina diffusa	gDNAContig	3043	AATTTTCTTGTGTTATGGGGGAAAAAATCTATAT TGTCATAAAGAGAAAAAAAAATTGAATATACAA ACCACAACAATTAGATTGCTTTTTCCCTACTATAT GGGGTTAGCTATATGAATCTTAGTTTGCATTTTTT CTTATCTAAAAACCATTTCTTTAGATGGCCCTAGA TAAGACAGTCACCTTTTAGGACTTCGTGAAGTGA CTTTTTTTTTGGTTATATACCATGGTTGCAAGTC TCAGCCAATACCAATACGTATCATGTATCGAGAT CGGTAGCTACTGTTATAGGATCGACATAGTATCT TGGATTGACATTTGCTTGTTGGCTGGCTGGCCAA TTTTGGCCAGAGAATGGTAGGAGTTGGCCGGTA CGACCGTAACGGTGTCAATTTCACTTGGTATCAG CCAATATCGATCATTATGAGCTCTGACACCGTTG ATATTGTATTGAAAATTAAAATTTCTATTTTAGAA AGTTAAATTTTTATTAGTTTATTTATTTCTTGTTAA CTAATATTATCAATATTGATACGTATCAGATTTGA GGAAACAGATTTGCAGTCCTGGTCTAAACCTCTA CCCTGTGTACGACTACCGAAATCTAGTATTGTAA CTTTTCTAACAGGTGCATCTACTATCTATAGAACG TCTACAAACACGTACAAACTGCTGTAAAGGATTT TTTCCTAAACTTGTTATTAATATGAGTCACCTATA GTTTTCCTTGCACATACTTGTTTGGAGTTGATCTT TCCTAGTGACACCTAACTTCCACCTCAACGTTCTT ATCTGTGCTAGACGCACTGTTTGGGTATCTTGCTT CTTAAGAGCCCATTATTTTCATAAATCATTGTAGA CCTAATACCAATTTTATACAATTTACCCTTAGATT TAAGAGACTCTACAATCACATAACATTCATGAAG TTTCTTGCCATTTTAACCATCTTGTTTTAATGCTAT TAATAATATCTTCTATATTTTCTCTATTATCTTGAA TAATGGACACAAGATACATAAGTTTTTTATTTCTA ACCAACTATACTCCATCTAACATAACAAATTAATT TGTTCTTGTCCTACTATTAATATTTCGTTTCATATA TTTTGTTTTAACTCTACTTCATTTAAAACTAAAATT ACATGCTGGAACTGAGGTTCTAATCTTAAGTTAA CACCTTCTGCTCTCTCATCATATAAAACTTCTCAA CAAAAAATTTATGCCAAGGAATATCATTCTAGAT ATGCCAAAGTCAATAGAAGATATGAATTTAAAGA ACCTTGGTGGACTCCTATTGTGATAGGAGATCTA TTGAACTTTCTTACTTATTTTTAATTATGTCTTATA TCTACTAGAAACCATTTGCTTTTCTAAGATCTACC AAAGAACATCCATAGGTATTCTATCATATGCATTT TCTGAGTCAATAAGAACCATATACATGTCTTTGTT CCTATTTCTAAGCGTTTGTACTAATTGCCTTGATA AACTGATAGTGGTAGGTATAAATCCAAAATGATT ATTAGAAATATTAGTTTCACATCTTAGTCGTTGTT CTGTCACTATTCTTTTCCTACTTTCATCTTCCTAAG AGCATCTTTTACTTCACAAGTCCTGATGTTTTGAA TATAAGTAGTTCTTTTTTTTTTTAATTAGTGGAATT

				TACCTGTAAAACTATGTCTAGCAAGGCTCTCTCC AAGTGTAACTTTATAATCCTCATAAATCCTCTGAT CACCATTTCTAGTGAGAAAAGGAAATCAATTTGG CCCCTACTAGAACTATCCTTAAAAGTAATTAAATG ACAGTCTCTCTTTCCATATAGAATAATGATTACCA CCGTATTGTACGATAAAGCAGATTCTAAAATTTT GACCTTTACATTATTCATCTCCCCATACCCATAAT CACCACAAGTAAACTTAATTTTCCTACTATCTTTT GCCTACGTGTCATGGATGAGTACCAGGGGAGGA GGAGAGGACAGGGGAAAAAGGAACAAAATGGA ATCAAAATAAAATAAAATGCTCATGCCAACAATA ATGTGGCTAAAATCGGACGGAAAACTACCGATG GAAGTTTTTGCAGCATTTAATGAAATGTTAAGTG TATTTGCTATTTCAAAAAAACTCAATTATTTTTTAT TGTTTTGGCAAAGGTTTAGATTTTATCTGCATTTA ACTCTTATAAAACATTATGAAATGATATTTGTTAT CGACTTTCTTGCACTTTCATGTGCTAAGCGTGTCA CAACTGCTGAATGCTACTATGCAGGAACAATATA TAGCTCATCCCTTTTTCCTGGCCGAGCTCCCCAAG GGAGAATATTGCTTCTTAACTACATTGGAGGTGC TACAAATACTGGAATTGTATCAAAGGTGTTGGAA CTTGACCATTTTTCAGTTTTTGTGAAGTTGCAAAA AGTTATATCCTCTACGAAAACATATGCAGCTTAG GCTATCCATAATATATAATCCATTTTTAATTAGTG AAAACATATTTCCTAGGAAACCTCAATTAAAATG TCATCCATTATGTCTACAATTGATACTTTATTTTGT TTGCTCTTCTTTTCCAGACAGTTTTTCTAGCATTTA CACCATGTTGCCACTAGGAATATTGAGTTTGGAC TGGTTTTTCCATTCATTGGCTAAAATTTTGTCTATT TCATTTAAACATGGAGAGGATGTTGCAAACACCT TCTAGATGTTTGAATTATCAAATCGTTCATAAAGA TTTTAAGTCCCAACTAATATATGATGCTGATTTTT CAAGTTTTTTTTATGTGCAGAATGAGAGCGAACT GGTAGAAGCAGTTGATCGTGACCTTAGAAAGAT GCTGATAAAGCCAACTGCTGAGGATCCTCTTCTT GTTGGTGTAAGAGTATGGCCACAAGCTATACCCC AGTTCCTGGTTGGTCATCTTGACCATCTCGAGGC AGCTAATGAAGCCCTCAGGAAAGGAGGTTTTGG TGGATTTTTTCTTGGTGGCAACTATGTAGCTGGT GTGGCGTTAGGTAGATGTGTGGAAGGTGCATAT G
51	Commelina diffusa	gDNAContig	1559	CCATGCTCTAATAGCTTGTCCGTCGTAATCTTGG GAATGAGGTTTTTGAACGATTGATTGAGCCATTC TGTTCAGGTGCGCACAATTCAATTTTCGCTATGAT AAGCAAAAAGGTTTTTCACATGATAATTACCTTT GTTTTTTTCTTTTGGTGATTAACATGCTTTTGTTTG TAATGTCATATATATACTATGTTTTACCTAGATAT TTGTTTTGAATTTTTTTTTCTTCTGGATTTTTAGTT

				TTCTGCGTTCTTTACTCCAAATTGAATCAGTTTGT CATAACTGTTATGGCAATTGTTTTGATCATGTTTT TAAAGGAGTCTCCCTGTTTTATCATCTAGCTTAGG AGTACCAAAATGAGCATTTATGTTCTCTAGAAGT TATAGGATAAGAAAGACAGGTGAGACCTTCTGG ACTGATTTCACCTAAAAAAATGCTAAATCTGCAG GGGTATATGCTGGAGATCCTACAAAACTTAGTAT GAAGGCAGCTTTTGGTAAAGTATGGAAGTTAGA ACAGACTGGTGGAAGTATTATTGGGGGCACTAT TAAGACAATCCAAGATCAAAAGAAAAATCCCAA ACCTCCTAGAGATCCGTAAGAATTTCATGAACCA AATTGGGTTTCCATACTACCTGATTGAAAGTAAT GAAGTATCCTTGAGTTAATTGTTGCTATTTATCAG ACGCCTACCAACACCAAAAGGACAAACAGTTGC ATCTTTTAGGAAAGGGCTTAACATGCTACCTGCA GCAATTTCTTCCAGGTCTTTGTTTTTTTTCATTCTT TGTAATACCCTGTAACTATCTGCAGGCTTTTACAA ACTGGTTATACTTTTTTTTTACTTTACCAAGTTGGT TAGTTAGTAGTTATATTTATGTGTTCATACTGAAG ATGAGCAACTTCTGTTTTTTATCATAATTATATTT ATATATTTCTTTTGTTATCTATCAAGGATTATCCTT CAGATCTAACAGTTCACAAACTTCACTAGCTTGTA TCTTGGAACATATTTTCTTTACTTTAATATTTTCAT TGACTTGTATTTCGTGGAAAAACAGACTGGGTAG CAAAGTGAAACTATCATGGAAACTTGTGAGCATC AGGAAGCTGGAGAGCCAGGAATATTTATTGCTA TATGAAACATCAGAAGGATTGACTTCAGTACAGA CTAGAAGTGTTGTTCTGACTGTTCCATCTTATATT GCCAGCAATCTCCTTCGCTCTCTTTCAGTAAGCTT ATGCCCCACTTTAAGCTTCTACAGTCCCTTTGAAT ATGTTTATGGAATTCTGTTATAAAGACCTTCTCGG TTGCTTTTTCTGTAGTTAATTTATGTGGATGGAGA ATCTTTCTAGAAATTGTTGACATGATACTATATAT GGTATCTATATTGTGTGACATGTTATTGTTGACCA ATATATGCTGTTTTCTTGAGTTATCTATTCCATTG CTCTGGAAATTTCTAGATGTTTTATCATATCTTAC CTATGTTATTTTACTGTCTTACCATGACATATATA TATTTTAATTGTTTATTATGATTAAAGATATATAT AT
52	Commelina diffusa	gDNAContig	589	TTATGATTAAAGATATATATATCCAATTAGTTTAC TTCCACATTGCATAATGTACCTTGATATATATTTC CTACTAGCATTTTTTCCTTAAAATTACGATTTTTGT ATGATTATCAGATTAACAACACTAGCGGCCTCTTT TATATTGATCCTAGTGGAAGGAGGATATTCCTCC TAATTTGTTGTACTAAGACATCGGCTACATTTTTT TTTTTGCTTATGGAGACATCTATATTAATATTTGT GGTTCACATGATTCTTGTTGCTTAAAGATTATTTA ATGGATGGTGGTTGCAGAATGACGCAGCTGATG

				CTTTGTCAAAGTTTTACTATCCTCCAGTTGCTGCT GTTTCCATTTCATATCCAAAGGAAGCTATTAGGA ACGAATGTTTAATCGATGGTGAGCTTAAGGGATT TGGCCAGTTGCATCCACGTAGTCAAGGAGTAGA GACACTCGGTACTGTTCTGTCTTGTTTATGGCCCC ACACTACTCACCCCAAATATAATATAGGTTCTATA TGTATATGCTCTCTGGATTTCCATTTGCAATAACA GAAATCATGCCTAGCAAATAATTATATAGTCATG A
53	Digitaria sanguinalis	cDNAContig	876	GACATCCTGCGTCCACTTTCAAGTGATGCTGCAG ATGCCCTTTCAAGATTCTATTATCCACCAGTTGGT GCTGTGACTATTTCATATCCAAAGGAAGCAATTA GAAAGGAATGCTTGATTGATGGGGAGCTCCAGG GTTTTGGCCAGTTGCATCCACGTAGTCAAGGAGT TGAGACATTAGGAACAATATACAGCTCATCACTC TTCCCAAATCGTGCTCCTGCTGGAAGGGTATTAC TTCTAAACTATATAGGAGGTGCTACAAACACTGG GATTGTCTCCAAGAGTGAAAGTGAGCTGGTAGA AGCAGTTGACCGTGACCTTAGGAAAATGCTCATC AACCCTAGAGCAGTGGACCCTTTAGTCCTTGGTG TCCGAGTGTGGCCACAAGCCATACCTCAGTTCCT GGTAGGACATCTTGATCTTCTGGAGGTTGCAAAA TCTGCCTTGGGCCGAGGTGGCTATGATGGGCTCT TCCTAGGAGGGAATTATGTAGCAGGAGTTGCCC TGGGCCGATGCGTGGAGGGTGCCTATGAAAGCG CCTCGCAAATATCTGACTTCTTGACCAAGTATGCC TACAAGTGATGAAAGAAGTCGAGCTGCTCGTTG TTTTGCATAGATGAGGTGAGACCAGGAGTGGCA CAAAGTTTACAAGGATTTTTTTTTTCATCTTATTTC GTAAATTGTACTTCTGATCTTTTTCCCTGTTAGTA ATTAGTTAGACTGTAGGACTCTAAGACATGCTCT GTTCGCCATCCTAGAAAGGAAGTTTTCTTTTAGG TTCATCAACGAGATCATCCATGCAGACTCGTGTA GCGTTTTCCTGTAAACACTAGTTCCAGGAAATTT AAATACTCTCTTGCAAGAGCAAAAAAA
54	Digitaria sanguinalis	cDNAContig	518	ACCTAATGCCATCTCAAAAAGCTTGGGTAGCAGA GTGAAATTATCATGGAAGCTAATAAATATCTCAA AGTTGGAGAATAGAGGTTATAATTTGACTTACGA AACACCAAATGGATTTGCAAGTCTGCAAACTAAA ACTGTTGTCATGACTGTTCCTTCCTACGTGGCGA GTGACTTGTTGCGTCCTCTTTCGTCGGAAGCAGC TGAGGCTTTGTCCAAATTTTATTACCCTCCAGTTG CAGCTGTATCTGTTTCCTATCCAAAAGAGGCGAT TCGTGCTGACCGTTTGATCGATGGTCAACTTAAG GGTTTTGGTCAATTACATCCAAGAAGTCAAGGCG TTGAGACTTTAGGTACCATCTATAGTTCATCCCTT TTCCCTAACCGGGCGCCACCTGGAAGGGTTCTCC TCCTCAACTACATTGGAGGGGCTACAAATCCTGG

				TATTTTGTCAAAGACAGAGAGTGAACTTGTGGAA GCAGTTGACCGTGATCTAAGGAAGATGCTCATAA ACCCTA
55	Digitaria sanguinalis	cDNAContig	387	TGGAGGATTCTTTCAACGTCATTTTGGGAAGGAG GTTGTTGAGTATCTCATTGATCCAGTTGTTGCGG GAACAAGCGGTGGAGATCCTGAATCACTTTCAAT GCGTTATGCGTTTCCTGAGTTATGGGATTTAGAG AGAAGGTTCGGTTCAATCATTTCTGGGGCATTTC TGTCAATGTTATCTTCCAGAGGTGGGAAAAGGA AACCTTCTGGAAACAGCAAACGTAGGCGTGGTTC TTTTTCTTTTTTGGGTGGGATGCAGACGCTCACTG ATGCACTATGCAAAGAGATTGGACCCCATGAATT TAATCTCCAATCAAAGGTTCTTGAAATGTCCTACA GCTGCGATGATAACGTGGTTGGTAATTGGTCAAT TTATTGTGCTCC
56	Digitaria sanguinalis	gDNAContig	2697	CTTGCGTCTCACAAAAGGCGCGAGCTGGCCGGC CCGCTACTTTTGTGCTTTGTCTTGTCTCCTTCAGG CTTCAGCAATGGACAAACATCCCCCTCAAGTAAA GCTTAATAGAAATCGATTTTGATGAACGAATAAC CATCATTAACGGCATCATGGCCATCGCTTCGATG GGATCAGTTGCTTGCAGAGCCGGCCAAAGTGGG CACGTGAGAGCCACGAGGATACGCGAGATGACG ACGACCATGGAGGTGGTTTCGAACTTTCGATCGC CGATTTTTATTGCGTCAGTTTCACAGCCAGAGAT GCTTGGCCTAGTACGGCTGACGATGAGCGTTTGT TTAGCTCATCTGAAGGAATGTGTTTTGCCTGTTG CCACCAAGATTAGCGTCCTTTTCTTTTATCGAATT CGGGTCACCATTTCCACTATTAATCAAAGATATA GTTTCTATATTTTTTCTCATTAATCCACAGTACCTT TTATTTCAGTAGTTATTATTGCATCCATACTTCAC CAGTACGGCACCCTTTGCAATCTCTGCCTACACTC CATTACCTCGAAGAATAGTGCACTACAGATGCAA TAAACACCCACCTCACCGACTGCTCGTAGGTGCA CCAGTACACTACATTTGCTGCTGCATGCTGGTCG CCATCATCCTTCCTGCCTGCAGGAAGCAGCAGGG TGTCTGGGATCTGCATCATGCCGGGCGCACAAG AGGAACAGACGTGCCAATAAAAGGGCTAGCAAC GCAACGAGGGGAGGGCCCCTTTTTTTCGTGTTAC CTCCCGTCCTGTGCATGAGTTGTCGTGTGTAACA GACGTGCTTGGTGATAAAGCGTAGGTGAAGAAG TGGCCTCCCCTGTGTCCCCTCCCTTCTCAGGAACG TTTCGTCATCTTTTCACTGAAAACGGGCGCGTGC TAACTGCCGCATCTGTGAGTTGAATGGTTGATTG GAGAGAAATTAGGTGTGCAATCACCACTTGGGC GGCAATCGTGTGCACTTACTTTTGGTTGGGTGTC AGATCAACAACAGGGGTTTCTTGGGGAAATGTTT CCAAATGTACTTCTCAAAATTACTTCTAGTGTACA CATGTTGAATTTCAGTTCAAATTTATTTACAAGAA

				TAATAAACAAAGAAGAAAATTGGCAAACAACAT TCATAAAAAATGGAATGAAAAGAGAAATGCATC CTTCTTTTGAAGATAAATAGTCAAATGCCATGTTT GTTTCGTTCACAAACAGAAAAATGATTTCATGAT TGCACCGCAAGAGTGGATGAATATATATAGGTCT ACAGTTGAACACCAATTTGGAAGAAAAATTCATG AGGCAGAAGTAAAATCGATTATTTCCTTGAGCTT CCGCATTGCATCTCCCAAAAGAAAACCATTAAAT ACTACTAGCAAGTTCTAGTACAGTCCCTACTAATT AAACATCAGCATAATTATCCTTCTTATACTCACTC GGGTTTTTTCTTATATGTCGTATTAGTTTCATCTTA AGTCAAACTTGTCAAAATTTGACCAAGTTTATAC AAAAGTATAACAATAACTATACTACCAAACTTAT ATGGTATCACAATATATTTCATTAGTAGGGACTG TCTCGCCGGTCGGGGAAATTAAACGCCCCCCGAT CCGTCACCGTGACCTGCCCTCCTCCCCGCCCGGG CAGATCGGGCCATCGCCTCCATCGGGGCACGGC TAGGTACCTGAAAACGATCGAGCAAAGCGGCCG GTTCGTTTCGTTCGTAGCGAGAGGCATTTGCTGC CAGTTCCCGGCGCGGGACACGCGCGCGCGAAAT GGCGGTGTCGAGAGGGAGGGAGGCGTCGCTTT CGGCGGGCGGGGGCGTGTTCCCTGGCTGTAGCC CGGCGGCGCGGCAGGCCTCGCGCGGGTGTCAAT ACCGGCCCGGCGGATTAGGTCCCCGTCTTTATGA CCGGCGCGCGCGCACCCTTGCGGTGCCCGTGCG TTGACGACGCTGCCACCGCACGTCCCCCTTCTTCA TTCCATGGCAGGGACGACGACGCTAGCTATAGC TGCACGTACGCGGTCGATCGAGTGGCTATGGCTT GGTCTCTACTGCACGCCATGCCGCCCGGCCTCCC ACCACAATAACTCGTGTGCCGGCCCGGCACGGC GCGGGCCGTGGTGGAACTGATCGCGTCGCGCAT TGATCATCATGCGTGGGGGCGTCGGGGCGACGG CTCGAGCGTGCGCACATGATTGTGCGTGTCAGG ATCCCAGACGCTAGCTACAGCTTGCTGCTGGTCC ATCCAGTGCCCTACGTGGACGCCGATCGCTGTGT GTTGGTGTGTGGGGTGATGATGATGGCGGATGG ATGGAGTCATGGAGGCACTGCGGGGCTCACAGG AGATTTTGGTGGGTGGTGGACGCATCCGTCGCG TCGCCCCCGGCGCTCGAGTGCACCCCGTACCAAC CCAACACGTCCGCTGTCGTGGAGACGCCGGAGG GCGCATGAAATCATTGTTAATTTTCTCTTGTGTGT TTTTTTTAAAAAAATTATAATAACAAAAGATGCAT GCTCCCTTCTTCTTTGATTAACTAATCGATCAGCT AGCTAACTCACACATTGTCCTTCCTGCAAGTAGC GCATGTATATTTATGCTCAACTATATGGGTATATA CTTTTTTTAAAAAAAACATAATCAACTATATATAT GGGTTATATGTGGGCGA
57	Digitaria	gDNAContig	1089	TAGGTATTTCTTTCAACTGAGTCTTAAGCTACAAC

	sanguinalis			ATCTACAGATTATTGTTTTTCTTTTGTGGTGTGAT TTTTCATTCTAGTATGTATTATGTCTTCTTTTGTTG AATCCAAGATATGAATCAAAATAGTGGTGGTATG CTTTTGTAGGAACAATATACAGCTCATCACTCTTC CCAAATCGTGCTCCTGCTGGAAGGGTGTTACTTC TAAACTATATAGGAGGTGCTACAAACACTGGAAT TGTTTCCAAGGTTAGTAATTCTCTGTCGAACTTAT TGCCTTGAGTTTTGTGTTCATGATGTTTTGACTGT AAAAAGAAAATTGGCATTCTTTAATAATCAACGT AAGCAGTATTTTAAAAAGAAAGTTGGCATTTTAA TAATCAATATCAACTTGTAACTAGATTGCTTATTA TTGGCTATTATTATTTAGGTGGGACCCGCAGACT ATTTAGGTGTGGAACCCATGTGGGACCCGCATAC TATTTAGGCGGGACCCACGCATATTCAGACACAC TATTTAGAGTGGAACCTACAATAATGTTAAGCGT CTACGTTATTTAAAAAATTATTGATAATTGTTTTC ATTCTTTGCAGTATAAAATATATTTATTTTTTTCTA TGTATAAAAATAATCTCTAACTTTGTATACTACAT TCGTTTGTGATAGTTCTAATACTTTTTGTACTTTG CTTTCATTTCATAAATTTGAAAAATAAGATTGAAT TATACATTCGTTACAAAATGTATCTTTTTTCTATTA AAAATTAAAAATTAGTGTAACATAACACGTCACT CCATTAGCTATTTCTACTACCACTTATATAGTGCT TAAATGATTATTATGATTAAAAAATTTGTCTAAAT TTAATATTGCATTGAGTATAGTAAGATAACAAAT TTGTATTACATCATTATTTTAGTTTAACATCTTCTA TATAGACGCACATCGCTCGTCAACCCAACTAGTA TTCCTAATGATGCCATCTCAATTGCAGAGTGAAA GTGAGCTGGTAGAAGCAGTTGATCGTGACCTCA GGAAAATGCTCATCGACCCTAGAGCAGTGGACC CTTTAGTCCTTGGTGTC
58	Kochia scoparia	cDNAContig	1518	ATACACTGCTCTACAATCTCAACCTCAACTCCAAC CTCAAGTTCAAACCCAGGAACACTTGGCGAAGG AGGATTATTGGATTGTGTGATCGTGGGAGGTGG TATTAGTGGGCTCTGCATTGCACAAGCACTTTCT ACAAAGTACTCTTCTCTTTCTACAAATTTCATTGTT ACCGAGGCGAAAGATCGAGTTGGTGGCAACATT ACCACCAAGGAGGATGATGGCTATATCTGGGAA GAAGGACCCAACAGTTTTCAGCCGTCTGATGCAG TTCTCACCATGGCTGTTGATTGTGGGTTGAAAGA TGAATTGGTGTTTGGTGACCCCAAAGCACCTCGA TTTGTGCTGTGGAATGGGAAATTAAGGCGGGTA CCTTCTAAGCTCACAGATCTCCCTTTCTTTGATCTT ATGAGCTTTCCTGGCAAGATTAGAGCTGGCCTTG GCGCTCTTGGATTTCGTCCTTCTCCACCAGGTCGT GAAGAATCTGTTGAGGATTTTGTTCGTCGAAATC TTGGCGATGAGGTCTTTGAACGTTTGATTGAACC TTTTTGTTCAGGTGTGTATGCTGGTGATCCTGCCA

				AGTTAAGCATGAAAGCTGCTTTTGGCAGAGTGT GGGTTTTGGAGCAGATGGGTGGTAATATCATTG GTGGCGCTCTCAAAACTATCCAGGAAAAGAAGA ATAAGCCTAAGCCGCCTCGAGATCCGCGCCTTCC GAAGCCAAAGGGTCAGACAGTTGGATCCTTTAG GAAAGGACTCATTATGTTGCCGAACGCCATTTCT GCTAGGCTTGGAAGTAAAGTGAAACTTTCTTGGA CTCTAGCTAGTATTTCTAAGACACACAATGGGGA ATATAATTTGATTTATGATACACCAGATGGACCG GTTTCCGTAAGGACTAAAAGTATCGTGATGACTA TTCCATCATATGTTGCAAGTAGTCTGCTTCGTCCA TTCTCAGATGCTGCTGCAGATTCCCTTTCAAAATT TCACTATCCACCTGTTGCAGCAGTGTCACTGTCTT ATCCTGAAGAAGCGATTAGACCTGAGTGCTTGAT TGATGGTAAACTTCAAGGATTCGGGCAACTGCAT CCCCGCAGTCAGGGTGTGGAAACCTTGGGATCA ATTTATAGTTCATCTCTTTTCCCTGGTCGAGCACC ACCTGGTAGGACCATGATCTTGAGCTTCATTGGA GGTGCTACTAATCCTGGCATAGTAGACAAGACGC AAGATGAACTTGCTAAGACTGTTGACAAGGACCT GAGAAGAATTCTTATAAATCCAAGTGCAAAAGAT CCTCGTGTTCTAGGCGTGAAAGTATGGCCTCAAG CAATACCCCAATTTTTGATAGGCCACTTTGATCTG CTTGATGCTGCAAAAGCTGCTTTGACTGATGCTG GGTGTAAAGGATTGTTTCTTGGAGGAAACTATGT ATCAGGTGTTGCCTTGGGGCGGTGTATAGAGGG TGCTTATGAATCTGCAGCCGAGGTAGTTGATTTC CTCTCCCAGTATTCAGACAAA
59	Kochia scoparia	cDNAContig	963	ATACACTGCTCTACAATCTCAACCTCAACTCCAAC CTCAAGTTCAAACCCAGGAACACTTGGCGAAGG AGGATTATTGGATTGTGTGATCGTGGGAGGTGG TATTAGTGGGCTCTGCATTGCACAAGCACTTTCT ACAAAGTACTCTTCTCTTTCTACAAATTTCATTGTT ACCGAGGCGAAAGATCGAGTTGGTGGCAACATT ACCACCAAGGAGGATGATGGCTATATCTGGGAA GAAGGACCCAACAGTTTTCAGCCGTCTGATGCAG TTCTCACCATGGCTGTTGATTGTGGGTTGAAAGA TGAATTGGTGTTTGGTGACCCCAAAGCACCTCGA TTTGTGCTGTGGAATGGGAAATTAAGGCGGGTA CCTTCTAAGCTCACAGATCTCCCTTTCTTTGATCTT ATGAGCTTTCCTGGCAAGATTAGAGCTGGCCTTG GCGCTCTTGGATTTCGTCCTTCTCCACCAGGTCGT GAAGAATCTGTTGAGGATTTTGTTCGTCGAAATC TTGGCGATGAGGTCTTTGAACGTTTGATTGAACC TTTTTGTTCAGGTGTGTATGCTGGTGATCCTGCCA AGTTAAGCATGAAAGCTGCTTTTGGCAGAGTGT GGGTTTTGGAGCAGATGGGTGGTAATATCATTG GTGGCGCTCTCAAAACTATCCAGGAAAAGAAGA

				ATAAGCCTAAGCCGCCTCGAGATCCGCGCCTTCC GAAGCCAAAGGGTCAGACAGTTGGATCCTTTAG GAAAGGACTCATTATGTTGCCGAACGCCATTTCT GCTAGGCTTGGAAGTAAAGTGAAACTTTCTTGGA CTCTAGCTAGTATTTCTAAGACACACAATGGGGA ATATAATTTGATTTATGATACACCAGATGGACCG GTTTCCGTAAGGACTAAAAGTATCGTGATGACTA TTCCATCATATGTTGCAAGTAGTCTGCTTCGTCCA TTCTCAGTGAGT
60	Kochia scoparia	cDNAContig	564	CAGGATGCTGCTGCAGATTCCCTTTCAAAATTTC ACTATCCACCTGTTGCAGCAGTGTCACTGTCTTAT CCTGAAGAAGCGATTAGACCTGAGTGCTTGATTG ATGGTAAACTTCAAGGATTCGGGCAACTGCATCC CCGCAGTCAGGGTGTGGAAACCTTGGGATCAAT TTATAGTTCATCTCTTTTCCCTGGTCGAGCACCAC CTGGTAGGACCATGATCTTGAGCTTCATTGGAGG TGCTACTAATCCTGGCATAGTAGACAAGACGCAA GATGAACTTGCTAAGACTGTTGACAAGGACCTGA GAAGAATTCTTATAAATCCAAGTGCAAAAGATCC TCGTGTTCTAGGCGTGAAAGTATGGCCTCAAGCA ATACCCCAATTTTTGATAGGCCACTTTGATCTGCT TGATGCTGCAAAAGCTGCTTTGACTGATGCTGGG TGTAAAGGATTGTTTCTTGGAGGAAACTATGTAT CAGGTGTTGCCTTGGGGCGGTGTATAGAGGGTG CTTATGAATCTGCAGCCGAGGTAGTTGATTTCCT CTCCCAGTATTCAGACAAA
61	Kochia scoparia	cDNAContig	516	GTAACTTGCCTACCCCTCTCAGTTATAATTACTAC ATTCAAGAAGGTTAATGTGAAAAGACCTCTTGAG GGCTTTGGAGTTCTTGTCCCCTCTGTTGAGCAGA AAAATGGGTTGAAGACTCTTGGTACACTATTTTC CTCCATCATGTTTCCTGATCGTGCTCCCTCTGATG TGTATCTCTATACAACCTTTGTTGGTGGAAGCAG GAATAGTGAACTTGCAAAAGCTTCAACGGATGA GCTGAAGCAAATAGTTTCTTCTGACCTTGAGAAG CTATTGGGCACTGAGGGTGAACCTACCTCTGTGA ATCATTTCTATTGGAGCAAGGCATTCCCTCTTTAT GGGCGCAACTATGACTCAGTACTCAAAGCAATCG AGCAGATGGAAAGAGATCTTCGTGGACTTTTTTA TGCAGGCAACCATAAAGATGGACTTTCCGTGGG AAAAGCTATAACATCGGGACACAAAGCTGCGGA GCTTGTAATGTTGTATCTCAACTCTTCATTAGATG CAAAG
62	Lolium multiflorum	cDNAContig	1185	GAGCGCCTCATCGAGCCTTCTGCTCAGGTGTGTA TGCGGGTGACCCTTCAAAGCTCAGTATGAGGGC TGCGTTTGGGAAGGTATGGAGACTGGAGGAGA ATGGAGGCAGTATTATTGGTGGAACCATCAAGG CAATTCAGGATAGAGGCAAGAACCCCAAACCGC CGAGGGATCCCCGACTTCCGACACCAAAGGGGC

				AGACGGTGGCATCTTTCAGGAAGGGTCTAGCCA TGCTCCCAAATGCTATCGCTTCTAGGTTGGGTAG TAAAGTCAAACTCTCGTGGAAGCTTACGGGCATT ACAAAGTCGGACAACCAGGGATATGTGTTAGCG TATGAAACACCGGAAGGAGTTGTTTCAGTGCAG GCTAAAAGTGTTATCATGACCATTCCGTCATATAT TGCTAGTGAAATCTTGCGCCCACTTTCGAGTGAT GCAGCAGATGGTCTCTCAAAATTTTATTATCCACC GGTTGCTGCTGTAACTGTTTCATATCCAACAGAA GCTATTAGAAAGAATGCTTAATTGATGGGGAGC TCCAGGGTTTCGGCCAGTTGCATCCACGTAGCCA AGGAGTTGAGACTTTAGGGACAATATATAGCTCT TCTCTCTTTCCGAATCGTGCTCCTGCTGGAAGAGT GTTACTTCTGAACTATATCGGGGGTGCTACAAAT ACAGGGATCGTCTCCAAGACTGAGAGTGACTTG GTGGAAGCAGTTGATCGTGACCTCAGAAAAATG TTGATAAATCCTACAGCACCAGACCCTTTAGCCTT AGGCGTCCGAGTGTGGCCACAAGCCATTCCACA GTTTTTGATTGGGCACCTTGATCGCCTTGATGCG GCAAAATCTGCCTTGGCCAGAGGCGGCTGCAGT GGGTTGTTTCTAGGAGGAAACTATGTAGCAGGA GTTGCCTTGGGCCGATGCATCGAGGGTGCGTAC GAGAGTGCCTCAGAAGTATCTGACTTCTTGACCA AGTATGCCTACAAGTGATGAAAGAAGTGTAATTC ATCATCTTGCTGCATATTTGAGGTGCGGCCAGAA TTAGTAATAATTCGGAAAATCTTGTAATCTTCTCT ACTTATACCTCCTATCGTTTTCCTAATCGCAATTTA GTTAGAAGTTAGGTTTGTAGAAGAAATTTTACTA GTTGTTCAGTATAATTCTTTCAGATTTTGGTGATG CAA
63	Lolium multiflorum	cDNAContig	258	TTGAAACAACTTGTGACCTCTGACCTTAGAAAGC TCTTGGGTGTAGAGGGGCAGCCAACTTTTGTGA GACATATACATTGGAAAAATGCTTTTCCTCTGTAT GGCCATGATTATGATTTGGCATTGGAAGCTATAG GAAAGATGGAGAATGATCTTCCAGGGTTCTTCTA TGCAGGAAATAACAAGGATGGCTTGGCTGTTGG AAATGTTATAGCTTCAGGAAGTAAAACTGCTGAT CTGGTGATCTCGTATCTTGAG
64	Lolium multiflorum	cDNAContig	201	TTGATATTTATTATGCAGGTGGATTATCTGCCGTT ATCCCTCATGGTAACAGCTTTTAAGAAGGAAGAT GTCAAAAGACCCCTGGAAGGATTTGGGGTGTTG GTACCCTATAAGGAACAGCAAAAACATGGTCTG AAAACCCTTGGAACCCTCTTCTCCTCTATGATGTT CCCAGATCGAGCTCCTAATGACCAACACTTA
65	Lolium multiflorum	cDNAContig	150	AATCCTGCCTTATTGGTATTTATTATGCAGGTGG ATTATCTGCCGTTATCCCTCATGGTAACAGCTTTT AAGAAGGAAGATGTCAAAAGACCCCTGGAAGGA TTTGGGGTGTTGGTACCCTATAAGGAACAGCAA

				AAACATGGTCTGAAA
66	Lolium multiflorum	cDNAContig	144	AGTGTTGGGAGCTTCTTTGAACGCCATTTTGGAA AGGAAGTTGTCGACTATCTTATTGATCCATTTGTA GCTGGAACAAGTGCAGGAGATCCTGAGTCATTA TCTATCCGTCATGCATTTCCAGCGTTATGGAATTT AGAAAAG
67	Lolium multiflorum	cDNAContig	114	ATAGGAACCCTCTTCTCCTCTATGATGTTCCCAGA TCGAGCTCCTAATGACCAACACTTATTTACAACAT TCGTTGGGGGAAGCCACAATAGGGATCTCGCTG GAGCTCCAACG
68	Lolium multiflorum	cDNAContig	108	AGGGTGGCCATCATCGGCGCCGGCGTGAGCGGC CTGGCGGCGTGCAAGCACCTGCTGGAGCGCGGC TGCCGGCCCGTCGTCTTCGAGGCGGACACGCTCC TTGGCGGT
69	Lolium multiflorum	gDNAContig	3037	CTCGACGCGAACGCGGGATCTCTTTCGCGTCAGG CGTGAAATAGGGCCGGATTTCCATATACAACTAC TAACCGAGAACCCCGCCCACTGGAATGCGATTCC CAGCCCATCGACCTATCCAATTCCAATTCCAGTG GGCCATGAAAACCGCAAACCAACCAACCAATAC AGCCGCAGCCGCATCCCGTCATCCACTCCGCACT GCCATCTCCCCCGCCCGAGCGACGGAAATGGTC GGCGCAACCATGGCCACCGCTACCGTCACGGCG GCGCTACCGCTCCGCCTCCGGGTCCCCGCGCGCC CCCGACGCGGACAGACGCGCTGCGCGGTCGCGA GCGATGCCACCGAGGCGCCGGCCGTGCCCAGCG CACGGCTGTCCGCGGATTGCGTCATCGTGGGCG GCGGCATCAGCGGCCTCTGCACCGCACAGGCGC TGGCCACCAAGTACGGCGTCACCGACTTGCTCGT CACGGAGGCCCGCGCTCGCGCAGGCGGCAACAT CACCACCGTCGAGCGCCCCGACGAGGGGTACCT CTGGGAGGAGGGCCCCAACAGCTTCCAGCCCTC CGACCCCGTCCTCACCATGGCCGTACGCACCATG CTCGCTTTCTCCTTCTTTTCCGGATTCTTCGGGAC GTAGGCGTACAGAATACAGATACGATCGCTGAA TGGATTGGTTGCGCAGGTAGACAGCGGGCTCAA GGATGACTTGGTGTTCGGGGACCCCAATGCGCC GCGCTTCGTGCTGTGGCAGGGGAAGCTGAGGCC GGTGCCGTCCAAGCCTGGCGACCTGCCTTTCTTC GACCTCATGAGTATTCCTGGGAAGCTCAGGGCC GGCCTTGGCGCGCTCGGCATTCGTCCGCCTCCTC CAGTTTGTGCTCTGCCCGTGCTCTCTATTCTTTAG TGAATTTTGATTGTCAAAGATGGGGCTGAGCGTT CCCGGCGAAGGTTTCAGGGGCGTGAGGAGTCG GTGGAGGAGTTTGTGCGCCGCAACCTCGGCGCG GAGGTCTTTGAGCGCCTCATCGAGCCTTTCTGCT CAGGTAATGTGCAGTAGTATATGTCTGTTCTGTT CTGCTCTGCTTCTTGCATTGATCCCGATAATAAGA ATATAACATTTCGATATCAACGTTAGGTGTGTAT

				GCGGGTGACCCTTCAAAGCTCAGTATGCGGGCT GCATTTGGGAAGGTATGGAGACTGGAGGAGAAT GGAGGCAGTATTATTGGTGGAACCATCAAGGCA ATTCAGGATAGAGGCAAGAACCCCAAACCACCG AGGGATCCGTAAGTGGAGACTCTACTTTTCTATT TAGTCAGTTAACTCACTGTTCCATTAGACTCGTAT TAATCTGTTTCACCACTTTTAGCCGACTTCCGACA CCAAAGGGGCAGACGGTGGCATCTTTCAGGAAG GGTCTAGCCATGCTCCCAAATGCTATCGCTTCTA GGTTTGTTTTCATCACTTGTGCACATACCTAAGTT ATGCTATCAGTATACGTGGTGCTGTATATTGTTC AGATAGAGGGGACAGATCTGTTGGTAGACCTAC TGTTTGCTGAACTCAATACCATATGAATATCATTG CATCAGCACCCAAAGTACCTGTGGCTCGATTATT ATATCAGCCATTCTCGCATTGTTGATACTAATGCA TCTGTGTTAATCTTTTTCATCTTGCTTTTTTGGTTG GGACCTGTACTATATAGGAAATTCCACGAGGGAT GAGTTATAGAGCATGTGTGTGTATGTCCATGCCC CTTGTACTCGGAGATGATCATGAATTATAGTAAT AATTTCATGCTTGGTCTTAAGACGTAACCCTGTCA TGTTTTGCATTCCTTCATTTCCAGGTTGGGTAGTA AAGTCAAACTCTCGTGGAAGCTTACGGGCATTAC AAAGTCGGACAACCAGGGATATGTGTTAGCGTA TGAAACACCGGAAGGAGTTGTTTCAGTGCAGGC TAAAAGTGTTATCATGACCATTCCGTCATATATTG CTAGTGAAATCTTGCGCCCACTTTCGGTAAGTTC ATGTTTGCAAAATTAATTGGTGTACTACTAATGTT AGTGTTAGGTTCCTGTAGTTCTCCATACTCCTGTG CAGTGGCGGACCCAGGATTTTGGCAAAGGGTAT GCCACACAAAAAAATTGGCCTGCCTTGATAACGA TTTTTTCTTAGAATATGAAGTAGAAGTGATGATT ATGAAATATGATTGAAAAAATCAAATAAAAGTGT TCTTGCATTATAATCAAAATATTAAATTGCTTAAC ACATGCACGGTTTGCGAGGTGTCCTATTTTTTAA ACTAATTTCTCACCGTACCATCTGACCCTAAATTT CTGAAGTATTTGACCACGGAATAATCGTTTCAGC AACACTACAAGATAACGTTAGATCGTACTAAATA AACAAAGAAATATGCTGAAGAAAGCTACAACGG AGCATATAAAAATTAGTCACAATAGCTAAATGGT TTCTTAATTAATCACCATAGCTAATCATCCATTAC GAAAGTACCTGGACGCATGCATGGTGCATGGCC ATGTCTCTAGGCTAGTTTAGCAATTAACCGGATG GTCAAGTGAGTACCAAAAACTAATAAAGCATGT GTCCCTGTACGATGCATGCTCGCAGGCTACATGC ACCGGCTTGATTAAAATGGCCAGCTGATTACAGG CGGTTCATATGGCTGGGCCGCTAGGTATGCCATG GCATATGCGGCATACCCTGTAGGTCCGCACTGCT CCTGTGGTAACCATGAAATAGCACGCTAGTACAC

				TATTCCTTAATAGAGTTGCTAATCAATAATTGACC GCATTACGATACTGGTTGCCTGTAATCTTAGTCC AAACACATGATTGAGCATTTTTGTTGAGAGATTA ATTGATTAATGTGGTTAAACTGTTCACTGATGCA TAGGTTGGACTATTTCTTCACCAATCAACTCTATG TTTCAAATAATTGAAATATACATCAATAGATTCAG AAAACTGTATCTTGTTTTGACAAAGTGACGCAAG ACACCAATATGCCTTATGAT
70	Lolium multiflorum	gDNAContig	795	GGTTTTGGTATTATTCTACTAATAATTCGTGGCAT TTTTATGTAGGGACAATATATAGCTCTTCTCTCTT TCCAAATCGTGCTCCTGCTGGAAGAGTGTTACTT CTGAACTATATCGGTGGTGCTACAAATACAGGGA TCGTCTCCAAGGTTCTCTCGACCTGCTGGATACTC ATGTCATTTTCTTATTGCGTGATACCAGGTTACAG TATTCAGTTAGTGTTGGTCACCTATTCATTTATGA TTAATATAAATAACTGGACTGCATTTTTCACCCCC AGCTGCAATTGTGAATACAAATAGATTAAATGGT CTGCTTAGATGCTACATTCAATCTCAATAGTATTG TTAGATTTTTTTTTGGCTGGCCATATTTATACTG ATCCCATTTTGTTTGCAGACTGAGAGTGACTTGG TGGAAGCAGTTGATCGTGACCTCAGAAAAATGTT GATAAATCCTACAGCACCAGACCCTTTAGCCTTA GGTGTCCGAGTGTGGCCACAAGCCATTCCACAGT TTTTGATTGGGCACCTTGATCGCCTTGATGCGGC AAAATCTGCCTTGGCCAGAGGCGGCTGCAGTGG GTTGTTCCTAGGAGGAAACTATGTAGCAGGAGT TGCCTTGGGCCGATGCATCGAGGGTGCGTACGA GAGTGCCTCAGAAGTATCTGACTTCTTGACCAAG TATGCCTACAAGTGATGAAAGAAGTGTAATTCAT CATCTTGCTGCATATTTGAGGTGCGGCCAGAATC AGTAATAATTCGGAAAATCTTGTAATCTTCTCTAC TTATACC
71	Lolium multiflorum	gDNAContig	381	TCAGGGGCGTGAGGAGTCGGTGGAGGAATTTGT GCGCCGCAACCTGGGTGCGGAGGTCTTTGAGCG CCTCATCGAGCCTTTCTGCTCAGGTAGTGTGCAG TAGTATCTGTCTGTTCTGTTCTGCTCTGCTTCCTG CATTGATTCCGATAATAAGAATATAACATTTCGAT ATCAACGTTAGGTGTGTATGCGGGTGACCCTTCA AAGCTCAGTATGCGGGCTGCGTTTGGGAAGGTA TGGAGACTGGAGGAGAATGGAGGCAGTATTATT GGTGGAACCATCAAGGCAATTCAGGATAGAGGC AAGAACCCCAAACCGCCGAGGGATCCGTAAGTG GAGACTGCAATTTTCTATTTAGTCAGTTAACTGTT CCATTAGACT

Table 2

SEQ ID NO	Species	Name | Reference	Type	Start	End	Seq
72	Amaranthus albus	PPOX_B1_1	cDNA Contig	1	200	GGAATCCTTGATTTGAAGATAGGATAAC CAGAGAGAGTGCGAGAGAGATGAGTGC GATGGCGTTATCGAGCAGCATTCTACAA TGTCCGCCGCACTCCGACATCTCGTTCCG CTTTTTTGCTCATACACGAACCCACTCCC CCATCTTCTTCAGAAGACCACGAAAATT ATCATATATCCATTGTTCCACAAGCTCAA GC
73	Amaranthus albus	PPOX_B1_1	cDNA Contig	1	200	GCTTGAGCTTGTGGAACAATGGATATAT GATAATTTTCGTGGTCTTCTGAAGAAGA TGGGGGAGTGGGTTCGTGTATGAGCAA AAAAGCGGAACGAGATGTCGGAGTGCG GCGGACATTGTAGAATGCTGCTCGATAA CGCCATCGCACTCATCTCTCTCGCACTCT CTCTGGTTATCCTATCTTCAAATCAAGGA TTCC
74	Amaranthus albus	PPOX_B1_2	cDNA Contig	176	375	TATCCATTGTTCCACAAGCTCAAGCTCAA CTGCCAATTACCAGAACACGATTACGAG CCAAGGAGAAGGAGAAAAAGTATTAGA TTGTGTAATTGTTGGAGCTGGTATCAGT GGACTTTGCATTGCTCAGGCTCTTTCTAC CAAACACATTCAATCCAATCTCAATTTCA TTGTCACTGAAGCTAAACATCGTGTTGG AG
75	Amaranthus albus	PPOX_B1_2	cDNA Contig	176	375	CTCCAACACGATGTTTAGCTTCAGTGAC AATGAAATTGAGATTGGATTGAATGTGT TTGGTAGAAAGAGCCTGAGCAATGCAA AGTCCACTGATACCAGCTCCAACAATTA CACAATCTAATACTTTTTCTCCTTCTCCTT GGCTCGTAATCGTGTTCTGGTAATTGGC AGTTGAGCTTGAGCTTGTGGAACAATGG ATA
76	Amaranthus albus	PPOX_B1_3	cDNA Contig	351	550	ACTGAAGCTAAACATCGTGTTGGAGGTA ATATCACTACCATGGAGTCCGATGGCTA TATCTGGGAAGAGGGTCCTAATAGTTTC CAACCCTCCGATCCTGTGCTTACTATGGC GGTTGACAGTGGATTGAAAGACGATTT GGTCTTGGGAGATCCTAATGCCCCTCGT TTCGTGCTGTGGAATGGTAAATTAAGGC CTGT
77	Amaranthus albus	PPOX_B1_3	cDNA Contig	351	550	ACAGGCCTTAATTTACCATTCCACAGCAC GAAACGAGGGGCATTAGGATCTCCCAA GACCAAATCGTCTTTCAATCCACTGTCAA CCGCCATAGTAAGCACAGGATCGGAGG

						GTTGGAAACTATTAGGACCCTCTTCCCA GATATAGCCATCGGACTCCATGGTAGTG ATATTACCTCCAACACGATGTTTAGCTTC AGT
78	Amaranthus albus	PPOX_B1_4	cDNA Contig	526	725	TGTGGAATGGTAAATTAAGGCCTGTTCC TTCCAAACCTACGGACCTTCCCTTTTTG ATCTCATGAGCTTTCCTGGTAAGATTAG GGCTGGTCTTGGTGCACTTGGTCTTCGT CCTCCTCCTCCTCCTTCTTCTTATGAGGA ATCCGTTGAAGAATTTGTGCGCCGTAAT CTCGGCGATGAGGTCTTCGAACGCTTGA TT
79	Amaranthus albus	PPOX_B1_4	cDNA Contig	526	725	AATCAAGCGTTCGAAGACCTCATCGCCG AGATTACGGCGCACAAATTCTTCAACGG ATTCCTCATAAGAAGAAGGAGGAGGAG GAGGACGAAGACCAAGTGCACCAAGAC CAGCCCTAATCTTACCAGGAAAGCTCAT GAGATCAAAAAAGGGAAGGTCCGTAGG TTTGGAAGGAACAGGCCTTAATTTACCA TTCCACA
80	Amaranthus albus	PPOX_B1_5	cDNA Contig	701	900	CGATGAGGTCTTCGAACGCTTGATTGAA CCCTTTTGTTCTGGTGTCTATGCTGGTGA TCCTGCAAAGTTGAGTATGAAAGCTGCA TTTGGAAAGGTCTGGACCTTAGAGCAAA AGGGTGGTAGTATCATCGCCGGTACACT CAAAACTATTCAGGAAAGGAAGAATAAT CCTCCACCCCCTCGAGACCCCCGCCTTCC TA
81	Amaranthus albus	PPOX_B1_5	cDNA Contig	701	900	TAGGAAGGCGGGGGTCTCGAGGGGGT GGAGGATTATTCTTCCTTTCCTGAATAGT TTTGAGTGTACCGGCGATGATACTACCA CCCTTTTGCTCTAAGGTCCAGACCTTTCC AAATGCAGCTTTCATACTCAACTTTGCAG GATCACCAGCATAGACACCAGAACAAAA GGGTTCAATCAAGCGTTCGAAGACCTCA TCG
82	Amaranthus albus	PPOX_B1_6	cDNA Contig	876	1075	CCCCCTCGAGACCCCCGCCTTCCTAAACC TAAGGGCCAGACTGTTGGATCCTTTAGG AAAGGACTCATTATGTTACCTACCGCCA TTGCTGCTAGGCTTGGCAGTAAAGTCAA ACTATCGTGGACACTTTCTAATATTGATA AGTCGCTCAATGGTGAATACAATCTCAC ATATCAAACACCCGATGGACCGGTTTCT GT
83	Amaranthus albus	PPOX_B1_6	cDNA Contig	876	1075	ACAGAAACCGGTCCATCGGGTGTTTGAT ATGTGAGATTGTATTCACCATTGAGCGA CTTATCAATATTAGAAAGTGTCCACGAT

						AGTTTGACTTTACTGCCAAGCCTAGCAG CAATGGCGGTAGGTAACATAATGAGTCC TTTCCTAAAGGATCCAACAGTCTGGCCC TTAGGTTTAGGAAGGCGGGGGTCTCGA GGGGG
84	Amaranthus albus	PPOX_B2_1	cDNA Contig	1	200	TAGGACCTTGATCTTGAGCTACATTGGA GGTGCTACAAATCTTGGCATATTACAAA AGAGTGAAGATGAACTTGCGGAGACAG TTGATAAGGATCTCAGAAAAATTCTGAT AAATCCAAATGCGAAAGGCAGCCGTGTT CTGGGAGTGAGAGTATGGCCAAAGGCA ATCCCCCAATTTTTAGTTGGTCACTTTGA TCTGC
85	Amaranthus albus	PPOX_B2_1	cDNA Contig	1	200	GCAGATCAAAGTGACCAACTAAAAATTG GGGGATTGCCTTTGGCCATACTCTCACT CCCAGAACACGGCTGCCTTTCGCATTTG GATTTATCAGAATTTTTCTGAGATCCTTA TCAACTGTCTCCGCAAGTTCATCTTCACT CTTTTGTAATATGCCAAGATTTGTAGCAC CTCCAATGTAGCTCAAGATCAAGGTCCT A
86	Amaranthus albus	PPOX_B2_2	cDNA Contig	176	375	TTTTTAGTTGGTCACTTTGATCTGCTAGA TGCTGCAAAAGCTGCTTTGGCAAATGCT GGGCTAAAGGGGTTGTTTCTTGGTGGTA ATTATGTATCAGGTGTTGCCTTGGGGAG GTGTATAGAGGGTGCTTATGACTCTGCA TCTCAGGTAGTGGATTTCCTCTCACAGTA CAAAGACAAGTAGTCAGTAGGGCTCCA GCA
87	Amaranthus albus	PPOX_B2_2	cDNA Contig	176	375	TGCTGGAGCCCTACTGACTACTTGTCTTT GTACTGTGAGAGGAAATCCACTACCTGA GATGCAGAGTCATAAGCACCCTCTATAC ACCTCCCCAAGGCAACACCTGATACATA ATTACCACCAAGAAACAACCCCTTTAGC CCAGCATTTGCCAAAGCAGCTTTTGCAG CATCTAGCAGATCAAAGTGACCAACTAA AAA
88	Amaranthus graecizans	PPOX_B3_1	cDNA Contig	1	200	GTGCGAGAGAGATGAGTGCGATGGCGT TATCGAGCAGCATTCTACAATGTCCGCC GCACTCCGACATCTCGTTCCGCTTTTTTG CTCATACACGAACCCACTCCCCCATCTTC TTCAGAAGACCACGAAAATTATCATATA TCCATTGTTCCACAAGCTCAAGCTCAACT GCCAATTACCAGAACACGATTACGAGCC AA
89	Amaranthus graecizans	PPOX_B3_1	cDNA Contig	1	200	TTGGCTCGTAATCGTGTTCTGGTAATTG GCAGTTGAGCTTGAGCTTGTGGAACAAT

						GGATATATGATAATTTTCGTGGTCTTCTG AAGAAGATGGGGGAGTGGGTTCGTGTA TGAGCAAAAAAGCGGAACGAGATGTCG GAGTGCGGCGGACATTGTAGAATGCTG CTCGATAACGCCATCGCACTCATCTCTCT CGCAC
90	Amaranthus graecizans	PPOX_B3_2	cDNA Contig	176	375	TTACCAGAACACGATTACGAGCCAAGGA GAAGGAGAAAAAGTATTAGATTGTGTA ATTGTTGGAGCTGGTATCAGTGGACTTT GCATTGCTCAGGCTCTTTCTACCAAACAC ATTCAATCCAATCTCAATTTCATTGTCAC TGAAGCTAAACATCGTGTTGGAGGTAAT ATCACTACCATGGAGTCCGATGGCTATA TCT
91	Amaranthus graecizans	PPOX_B3_2	cDNA Contig	176	375	AGATATAGCCATCGGACTCCATGGTAGT GATATTACCTCCAACACGATGTTTAGCTT CAGTGACAATGAAATTGAGATTGGATTG AATGTGTTTGGTAGAAAGAGCCTGAGC AATGCAAAGTCCACTGATACCAGCTCCA ACAATTACACAATCTAATACTTTTTCTCC TTCTCCTTGGCTCGTAATCGTGTTCTGGT AA
92	Amaranthus graecizans	PPOX_B3_3	cDNA Contig	351	550	ACCATGGAGTCCGATGGCTATATCTGGG AAGAGGGTCCTAATAGTTTCCAACCCTC CGATCCTGTGCTTACTATGGCGGTTGAC AGTGGATTGAAAGACGATTTGGTCTTGG GAGATCCTAATGCCCCTCGTTTCGTGCT GTGGAATGGTAAATTAAGGCCTGTTCCT TCCAAGCCTACGGACCTTCCCTTTTTGA TCT
93	Amaranthus graecizans	PPOX_B3_3	cDNA Contig	351	550	AGATCAAAAAAGGGAAGGTCCGTAGGC TTGGAAGGAACAGGCCTTAATTTACCAT TCCACAGCACGAAACGAGGGGCATTAG GATCTCCCAAGACCAAATCGTCTTTCAAT CCACTGTCAACCGCCATAGTAAGCACAG GATCGGAGGGTTGGAAACTATTAGGAC CCTCTTCCCAGATATAGCCATCGGACTCC ATGGT
94	Amaranthus graecizans	PPOX_B3_4	cDNA Contig	526	725	CTACGGACCTTCCCTTTTTTGATCTCATG AGCTTTCCTGGTAAGATTAGGGCTGGTC TTGGTGCACTTGGTCTTCGTCCTCCTCCT CCTCCTTCTTCTTATGAGGAATCCGTTGA AGAATTTGTGCGCCGTAATCTCGGCGAT GAGGTCTTCGAACGCTTGATTGAACCCT TTTGTTCTGGTGTCTATGCTGGTGATCCT
95	Amaranthus graecizans	PPOX_B3_4	cDNA Contig	526	725	AGGATCACCAGCATAGACACCAGAACA AAAGGGTTCAATCAAGCGTTCGAAGACC

						TCATCGCCGAGATTACGGCGCACAAATT CTTCAACGGATTCCTCATAAGAAGAAGG AGGAGGAGGAGGACGAAGACCAAGTG CACCAAGACCAGCCCTAATCTTACCAGG AAAGCTCATGAGATCAAAAAAGGGAAG GTCCGTAG
96	Amaranthus graecizans	PPOX_B3_5	cDNA Contig	701	900	TTCTGGTGTCTATGCTGGTGATCCTGCA AAGTTGAGTATGAAAGCTGCATTTGGAA AGGTCTGGACCTTAGAGCAAAAGGGTG GTAGTATCATCGCCGGTACACTCAAAAC TATTCAGGAAAGGAAGAATAATCCTCCA CCCCCTCGAGACCCCCGCCTTCCTAAACC TAAGGGCCAGACTGTTGGATCCTTTAGG AAAG
97	Amaranthus graecizans	PPOX_B3_5	cDNA Contig	701	900	CTTTCCTAAAGGATCCAACAGTCTGGCC CTTAGGTTTAGGAAGGCGGGGGTCTCG AGGGGGTGGAGGATTATTCTTCCTTTCC TGAATAGTTTTGAGTGTACCGGCGATGA TACTACCACCCTTTTGCTCTAAGGTCCAG ACCTTTCCAAATGCAGCTTTCATACTCAA CTTTGCAGGATCACCAGCATAGACACCA GAA
98	Amaranthus graecizans	PPOX_B3_6	cDNA Contig	876	1075	CAGACTGTTGGATCCTTTAGGAAAGGAC TCATTATGTTACCTACCGCCATTGCTGCT AGGCTTGGCAGTAAAGTCAAACTATCGT GGACACTTTCTAATATTGATAAGTCGCTC AATGGTGAATACAATCTCACATATCAAA CACCCGATGGACCGGTTTCTGTTAGGAC CAAAGCGGTTGTCATGACTGTCCCTTCA TA
99	Amaranthus graecizans	PPOX_B3_6	cDNA Contig	876	1075	TATGAAGGGACAGTCATGACAACCGCTT TGGTCCTAACAGAAACCGGTCCATCGGG TGTTTGATATGTGAGATTGTATTCACCAT TGAGCGACTTATCAATATTAGAAAGTGT CCACGATAGTTTGACTTTACTGCCAAGC CTAGCAGCAATGGCGGTAGGTAACATA ATGAGTCCTTTCCTAAAGGATCCAACAG TCTG
100	Amaranthus graecizans	PPOX_B3_7	cDNA Contig	1051	1250	CGGTTGTCATGACTGTCCCTTCATACATT GCAAGTAGCCTGCTTCGTCCGCTCTCAG ATGTTGCTGCAGATTCTCTTTCTAAATTT TACTATCCTCCAGTCGCAGCAGTGTCCCT TTCTTATCCCAAAGAAGCAATTAGACCA GAATGCTTGATCGATGGAGAACTAAAA GGATTCGGGCAATTGCATCCCCGCAGCC AG
101	Amaranthus	PPOX_B3_7	cDNA	1051	125	CTGGCTGCGGGGATGCAATTGCCCGAAT

	graecizans		Contig		0	CCTTTTAGTTCTCCATCGATCAAGCATTC TGGTCTAATTGCTTCTTTGGGATAAGAA AGGGACACTGCTGCGACTGGAGGATAG TAAAATTTAGAAAGAGAATCTGCAGCAA CATCTGAGAGCGGACGAAGCAGGCTAC TTGCAATGTATGAAGGGACAGTCATGAC AACCG
102	Amaranthus graecizans	PPOX_B3_8	cDNA Contig	1226	1425	CGGGCAATTGCATCCCCGCAGCCAGGGT GTGGAAACCTTGGGAACAATTTATAGTT CATCTCTTTTCCCTGGTCGAGCACCACCC GGTAGGACCTTGATCTTGAGCTACATTG GAGGTGCTACAAATCTTGGCATATTACA AAAGAGTGAAGATGAACTTGCGGAGAC AGTTGATAAGGATCTCAGAAAAATTCTG ATAA
103	Amaranthus graecizans	PPOX_B3_8	cDNA Contig	1226	1425	TTATCAGAATTTTTCTGAGATCCTTATCA ACTGTCTCCGCAAGTTCATCTTCACTCTT TTGTAATATGCCAAGATTTGTAGCACCTC CAATGTAGCTCAAGATCAAGGTCCTACC GGGTGGTGCTCGACCAGGGAAAAGAGA TGAACTATAAATTGTTCCCAAGGTTTCCA CACCCTGGCTGCGGGGATGCAATTGCCC G
104	Amaranthus graecizans	PPOX_B3_9	cDNA Contig	1401	1600	AAGGATCTCAGAAAAATTCTGATAAATC CAAATGCGAAAGGCAGCCGTGTTCTGG GAGTGAGAGTATGGCCAAAGGCAATCC CCCAATTTTTAGTTGGTCACTTTGATCTG CTAGATGCTGCAAAAGCTGCTTTGGCAA ATGCTGGGCTAAAGGGGTTGTTTCTTGG TGGTAATTATGTATCAGGTGTTGCCTTG GGGAG
105	Amaranthus graecizans	PPOX_B3_9	cDNA Contig	1401	1600	CTCCCCAAGGCAACACCTGATACATAAT TACCACCAAGAAACAACCCCTTTAGCCC AGCATTTGCCAAAGCAGCTTTTGCAGCA TCTAGCAGATCAAAGTGACCAACTAAAA ATTGGGGGATTGCCTTTGGCCATACTCT CACTCCCAGAACACGGCTGCCTTTCGCA TTTGGATTTATCAGAATTTTTCTGAGATC CTT
106	Amaranthus graecizans	PPOX_B3_10	cDNA Contig	1576	1775	ATGTATCAGGTGTTGCCTTGGGGAGGTG TATAGAGGGTGCTTATGACTCTGCATCT CAGGTAGTGGATTTCCTCTCACAGTACA AAGACAAGTAGTCAGTAGGGCTCCAGC ATCCTGGTTAAGTAACTTTTTGTAGCTGT TGTAATTCAGATATAAAATAGCCCACAG TCAAACAAGTTTGGAAAGATGTAAAAGC ATGA

107	Amaranthus graecizans	PPOX_B3_10	cDNA Contig	1576	1775	TCATGCTTTTACATCTTTCCAAACTTGTTTGACTGTGGGCTATTTTATATCTGAATTACAACAGCTACAAAAAGTTACTTAACCAGGATGCTGGAGCCCTACTGACTACTTGTCTTTGTACTGTGAGAGGAAATCCACTACCTGAGATGCAGAGTCATAAGCACCCTCTATACACCTCCCCAAGGCAACACCTGATACAT
108	Amaranthus hybridus	PPOX_B4_1	cDNA Contig	1	200	GAAGCTAAACATCGTGTTGGAGGTAATATCACTACCATGGAGTCCGATGGCTATATCTGGGAAGAGGGTCCTAATAGTTTCCAACCCTCTGATCCTGTGCTTACTATGGCGGTTGACAGTGGATTGAAAGACGATTTGGTCTTGGGAGATCCTAATGCCCCTCGTTTCGTGCTCTGGAATGGTAAATTAAGGCCTGTTCC
109	Amaranthus hybridus	PPOX_B4_1	cDNA Contig	1	200	GGAACAGGCCTTAATTTACCATTCCAGAGCACGAAACGAGGGGCATTAGGATCTCCCAAGACCAAATCGTCTTTCAATCCACTGTCAACCGCCATAGTAAGCACAGGATCAGAGGGTTGGAAACTATTAGGACCCTCTTCCCAGATATAGCCATCGGACTCCATGGTAGTGATATTACCTCCAACACGATGTTTAGCTTC
110	Amaranthus hybridus	PPOX_B4_2	cDNA Contig	176	375	GGAATGGTAAATTAAGGCCTGTTCCTTCCAAACCTACGGACCTTCCCTTTTTTGATCTCATGAGCTTTCCTGGTAAGATTAGGGCTGGTCTTGGTGCACTTGGTCTTCGTCGTCCTCCTCCTCCTTCTTCTTATGAGGAATCTGTTGAAGAATTTGTGCGCCGTAATCTCGGCGATGAGGTCTTCGAACGCTTGATCGAA
111	Amaranthus hybridus	PPOX_B4_2	cDNA Contig	176	375	TTCGATCAAGCGTTCGAAGACCTCATCGCCGAGATTACGGCGCACAAATTCTTCAACAGATTCCTCATAAGAAGAAGGAGGAGGAGGACGACGAAGACCAAGTGCACCAAGACCAGCCCTAATCTTACCAGGAAAGCTCATGAGATCAAAAAAGGGAAGGTCCGTAGGTTTGGAAGGAACAGGCCTTAATTTACCATTCC
112	Amaranthus hybridus	PPOX_B4_3	cDNA Contig	351	550	TGAGGTCTTCGAACGCTTGATCGAACCCTTTTGTTCTGGTGTGTATGCTGGTGATCCTACAAAGTTGAGTATGAAAGCTGCATTTGGAAAGGTCTGGACCTTAGAGCAAAAGGGTGGTAGTATCATCGCCGGTACACTCAAAACTATTCAGGAAAGGAAGAATAATCCTCCACCCCCTCGAGACCCCCGCCTTCCTAAAC

113	Amaranthus hybridus	PPOX_B4_3	cDNA Contig	351	550	GTTTAGGAAGGCGGGGGTCTCGAGGGG GTGGAGGATTATTCTTCCTTTCCTGAATA GTTTTGAGTGTACCGGCGATGATACTAC CACCCTTTTGCTCTAAGGTCCAGACCTTT CCAAATGCAGCTTTCATACTCAACTTTGT AGGATCACCAGCATACACACCAGAACAA AAGGGTTCGATCAAGCGTTCGAAGACCT CA
114	Amaranthus hybridus	PPOX_B4_4	cDNA Contig	526	725	CCTCGAGACCCCCGCCTTCCTAAACCTAA GGGCCAGACTGTTGGATCCTTTAGGAAA GGGCTCATTATGTTACCTACCGCCATTGC TGCTAGGCTTGGCAGTAAAGTCAAACTA TCGTGGACACTTTCTAATATTGATAAGTC GCTCAATGGTGAATACATTCTCACTTATC AAACACCCGATGGACCGGTTTCTGTTAG
115	Amaranthus hybridus	PPOX_B4_4	cDNA Contig	526	725	CTAACAGAAACCGGTCCATCGGGTGTTT GATAAGTGAGAATGTATTCACCATTGAG CGACTTATCAATATTAGAAAGTGTCCAC GATAGTTTGACTTTACTGCCAAGCCTAG CAGCAATGGCGGTAGGTAACATAATGA GCCCTTTCCTAAAGGATCCAACAGTCTG GCCCTTAGGTTTAGGAAGGCGGGGGTC TCGAGG
116	Amaranthus hybridus	PPOX_B4_5	cDNA Contig	701	900	CACCCGATGGACCGGTTTCTGTTAGGAC CAAAGCGGTTGTCATGACTGTCCCTTCA TACATTGCAAGTAGCCTGCTTCGTCCGCT CTCAGATGTTGCTGCAGATTCTCTTTCTA AGTTTTACTATCCACCAGTCGCAGCAGT GTCCCTTTCTTATCCCAAAGAAGCAATTA GACCAGAATGCTTGATCGATGGAGAACT A
117	Amaranthus hybridus	PPOX_B4_5	cDNA Contig	701	900	TAGTTCTCCATCGATCAAGCATTCTGGTC TAATTGCTTCTTTGGGATAAGAAAGGGA CACTGCTGCGACTGGTGGATAGTAAAAC TTAGAAAGAGAATCTGCAGCAACATCTG AGAGCGGACGAAGCAGGCTACTTGCAA TGTATGAAGGGACAGTCATGACAACCG CTTTGGTCCTAACAGAAACCGGTCCATC GGGTG
118	Amaranthus hybridus	PPOX_B4_6	cDNA Contig	876	1075	AGAATGCTTGATCGATGGAGAACTAAA AGGATTCGGGCAATTGCATCCCCGCAGC CAGGGTGTGGAAACCTTGGGAACAATTT ATAGTTCATCTCTTTTCCCTTGGTTCGAG CACCACCCGGTAGGACCTTGATCTTGAG CTACATTGGAGGTGCTACAAATGTTGGA ATATTACAAAAGAGTGAAGATGAACTTG CGGA

119	Amaranthus hybridus	PPOX_B4_6	cDNA Contig	876	1075	TCCGCAAGTTCATCTTCACTCTTTTGTAATATTCCAACATTTGTAGCACCTCCAATGTAGCTCAAGATCAAGGTCCTACCGGGTGGTGCTCGAACCAAGGGAAAAGAGATGAACTATAAATTGTTCCCAAGGTTTCCACACCCTGGCTGCGGGGATGCAATTGCCCGAATCCTTTTAGTTCTCCATCGATCAAGCATTCT
120	Amaranthus lividus	PPOX_B5_1	cDNA Contig	1	200	TAGATTGTTGAGAGGGAATGGGCAATTAAGTGGAATCCCATTTCCTTAAACTCAGCTGGTGTATGTAATGGTGTCTTTCCACCTTCAATCATGTTTGCAATTCTCAAACCTTTAACATCTCTAACAACCTCTTTTAGCTCTTCTATGTTGGCTGGTGCCTCAACAAATGTGGCATCAGCCCCTGCCTCTCTGTAAAGATT
121	Amaranthus lividus	PPOX_B5_1	cDNA Contig	1	200	AATCTTTACAGAGAGGCAGGGGCTGATGCCACATTTGTTGAGGCACCAGCCAACATAGAAGAGCTAAAAGAGGTTGTTAGAGATGTTAAAGGTTTGAGAATTGCAAACATGATTGAAGGTGGAAAGACACCATTACATACACCAGCTGAGTTTAAGGAAATGGGATTCCACTTAATTGCCCATTCCCTCTCAACAATCTA
122	Amaranthus lividus	PPOX_B5_2	cDNA Contig	176	375	CAGCCCCTGCCTCTCTGTAAAGATTAGCACGTCTAATAGCTTCTTGAAGACCGTGAGGTGCACGAGCATCAGTCCTTGCAACCAAGAAGAAATCAGATTCACCAATGGCTTCCCTTGCTGCAGCGATCTTAAGGGCGTGCTCCTCTGCAGGAACAACTGCCTTACCACGCATGTGACCACACTTCTTTGGCCATACTTGA
123	Amaranthus lividus	PPOX_B5_2	cDNA Contig	176	375	TCAAGTATGGCCAAAGAAGTGTGGTCACATGCGTGGTAAGGCAGTTGTTCCTGCAGAGGAGCACGCCCTTAAGATCGCTGCAGCAAGGGAAGCCATTGGTGAATCTGATTTCTTCTTGGTTGCAAGGACTGATGCTCGTGCACCTCACGGTCTTCAAGAAGCTATTAGACGTGCTAATCTTTACAGAGAGGCAGGGGCTG
124	Amaranthus lividus	PPOX_B5_3	cDNA Contig	351	550	ACCACACTTCTTTGGCCATACTTGATCCTCAAGGAAAACACCCTTGGCACCAGCTGCGATCAAGTCTTTGATGAACCTTTGAACATTAAGAGGACCACCACCACCGGTGTCTCCGTCAACAATAACACACAAACTAGGAGCAGCTGCCGTAATTCTGCGAACAACATCTACCACTTCTGCAGTTGTAAGCAAGCCAA

						AGT
125	Amaranthus lividus	PPOX_B5_3	cDNA Contig	351	550	ACTTTGGCTTGCTTACAACTGCAGAAGT GGTAGATGTTGTTCGCAGAATTACGGCA GCTGCTCCTAGTTTGTGTGTTATTGTTGA CGGAGACACCGGTGGTGGTGGTCCTCTT AATGTTCAAAGGTTCATCAAAGACTTGA TCGCAGCTGGTGCCAAGGGTGTTTTCCT TGAGGATCAAGTATGGCCAAAGAAGTG TGGT
126	Amaranthus lividus	PPOX_B5_4	cDNA Contig	526	725	TCTGCAGTTGTAAGCAAGCCAAAGTCGG GCAAGCCAAGAAGAGCAGCGGAAACAC CAAAACCGGAGACAAAGCAAGCTTTGA AGCCGGTTTTAGCGCAAATGGCGGCGG AGAAAGCGTCTTGGATTCCGGGCATTAA AATTGGTCCCTCCTCGGCGATCAGACGG TGCATTGTGGTCTTTCCGACTGCCTCAAG AGAACC
127	Amaranthus lividus	PPOX_B5_4	cDNA Contig	526	725	GGTTCTCTTGAGGCAGTCGGAAAGACCA CAATGCACCGTCTGATCGCCGAGGAGG GACCAATTTTAATGCCCGGAATCCAAGA CGCTTTCTCCGCCGCCATTTGCGCTAAAA CCGGCTTCAAAGCTTGCTTTGTCTCCGGT TTTGGTGTTTCCGCTGCTCTTCTTGGCTT GCCCGACTTTGGCTTGCTTACAACTGCA GA
128	Amaranthus lividus	PPOX_B5_5	cDNA Contig	701	900	TCTTTCCGACTGCCTCAAGAGAACCCATT TTTGTTTCTAATAATACAATTTAGGAATT AAGGAAGGAGGTGATGATGAGTTGATA GAACTACTTAGTGTGTAATTGTTGGAGC TGGTATCAGTGGACTTTGCATTGCGCAG GCTCTTTCTACCAAACACATTCAATCCAA TCTCAATTTCATTGTCACTGAAGCTAAAC A
129	Amaranthus lividus	PPOX_B5_5	cDNA Contig	701	900	TGTTTAGCTTCAGTGACAATGAAATTGA GATTGGATTGAATGTGTTTGGTAGAAAG AGCCTGCGCAATGCAAAGTCCACTGATA CCAGCTCCAACAATTACACACTAAGTAG TTCTATCAACTCATCATCACCTCCTTCCTT AATTCCTAAATTGTATTATTAGAAACAAA AATGGGTTCTCTTGAGGCAGTCGGAAA GA
130	Amaranthus lividus	PPOX_B5_6	cDNA Contig	876	1075	ATTTCATTGTCACTGAAGCTAAACATCGT GTTGGAGGTAATATTACTACCATGGAGT CCGATGGCTATATCTGGGAAGAGGGTC CTAATAGTTTCCAACCCTCTGATCCTGTG CTTACTATGGCGGTTGACAGTGGATTGA AAGACGATTTGGTTTTGGGAGATCCTGA

						TGCCCCTCGTTTCGTGCTCTGGAATGGT AAA
131	Amaranthus lividus	PPOX_B5_6	cDNA Contig	876	1075	TTTACCATTCCAGAGCACGAAACGAGGG GCATCAGGATCTCCCAAAACCAAATCGT CTTTCAATCCACTGTCAACCGCCATAGTA AGCACAGGATCAGAGGGTTGGAAACTA TTAGGACCCTCTTCCCAGATATAGCCATC GGACTCCATGGTAGTAATATTACCTCCA ACACGATGTTTAGCTTCAGTGACAATGA AAT
132	Amaranthus lividus	PPOX_B5_7	cDNA Contig	1051	1250	TCGTTTCGTGCTCTGGAATGGTAAATTA AGGCCTGTTCCTTCTAAACCTACGGACCT TCCCTTTTTTGATCTCATGAGCTTTCCTG GTAAGATTAGGGCTGGTCTTGGTGCACT TGGTCTTCGTCCTCCTCCTCCTCCTCCTTC TTATGAGGAATCTGTTGAAGAATTTGTG CGCCGTAATCTCGGCGATGAGGTCTTCG
133	Amaranthus lividus	PPOX_B5_7	cDNA Contig	1051	1250	CGAAGACCTCATCGCCGAGATTACGGCG CACAAATTCTTCAACAGATTCCTCATAAG AAGGAGGAGGAGGAGGAGGACGAAGA CCAAGTGCACCAAGACCAGCCCTAATCT TACCAGGAAAGCTCATGAGATCAAAAAA GGGAAGGTCCGTAGGTTTAGAAGGAAC AGGCCTTAATTTACCATTCCAGAGCACG AAACGA
134	Amaranthus lividus	PPOX_B5_8	cDNA Contig	1226	1425	CGTAATCTCGGCGATGAGGTCTTCGAAC GCTTAATCGAACCCTTTTGTTCTGGTGTG TATGCTGGTGATCCTACAAAGTTGAGTA TGAAAGCTGCATTTGGAAAGGTCTGGAC CTTAGAGCAAAAGGGTGGTAGTATCATC GCCGGTACACTCAAATCTATTCAGGAAA GGAAGAATAATCCTCCACCCCCTCGAGA CCC
135	Amaranthus lividus	PPOX_B5_8	cDNA Contig	1226	1425	GGGTCTCGAGGGGGTGGAGGATTATTC TTCCTTTCCTGAATAGATTTGAGTGTACC GGCGATGATACTACCACCCTTTTGCTCTA AGGTCCAGACCTTTCCAAATGCAGCTTT CATACTCAACTTTGTAGGATCACCAGCA TACACACCAGAACAAAAGGGTTCGATTA AGCGTTCGAAGACCTCATCGCCGAGATT ACG
136	Amaranthus lividus	PPOX_B5_9	cDNA Contig	1401	1600	ATAATCCTCCACCCCCTCGAGACCCCCGC CTTCCTAAACCTAAGGGCCAGACTGTTG GATCCTTTAGGAAAGGGCTCATTATGTT ACCTACCGCCATTGCTGCTAGGCTTGGC AGTAAAGTCAAACTATCGTGGACACTTT CTAATATTGATAAGTCGCTCAATGGTGA

						ATACAATCTCACTTATCAAACACCCGATGGA
137	Amaranthus lividus	PPOX_B5_9	cDNA Contig	1401	1600	TCCATCGGGTGTTTGATAAGTGAGATTGTATTCACCATTGAGCGACTTATCAATATTAGAAAGTGTCCACGATAGTTTGACTTTACTGCCAAGCCTAGCAGCAATGGCGGTAGGTAACATAATGAGCCCTTTCCTAAAGGATCCAACAGTCTGGCCCTTAGGTTTAGGAAGGCGGGGGTCTCGAGGGGGTGGAGGATTAT
138	Amaranthus lividus	PPOX_B5_10	cDNA Contig	1576	1775	TCTCACTTATCAAACACCCGATGGACCGGTTTCTGTTAGGACCAAAGCGGTTGTCATGACTGTACCTTCATACATTGCAAGTAGCCTGCTTCGTCCACTCTCAGATGTTGCTGCAGATTCTCTTTCTAAGTTTTACTATCCACCAGTCGCAGCAGTGTCCCTTTCTTATCCCAAGGAAGCAATTAGACCAGAATGCTTGA
139	Amaranthus lividus	PPOX_B5_10	cDNA Contig	1576	1775	TCAAGCATTCTGGTCTAATTGCTTCCTTGGGATAAGAAAGGGACACTGCTGCGACTGGTGGATAGTAAAACTTAGAAAGAGAATCTGCAGCAACATCTGAGAGTGGACGAAGCAGGCTACTTGCAATGTATGAAGGTACAGTCATGACAACCGCTTTGGTCCTAACAGAAACCGGTCCATCGGGTGTTTGATAAGTGAGA
140	Amaranthus lividus	PPOX_B5_11	cDNA Contig	1751	1950	GAAGCAATTAGACCAGAATGCTTGATCGATGGAGAACTAAAAGGATTCGGGCAATTGCATCCCCGCAGCCAGGGTGTGGAAACCTTGGGAACAATTTATAGTTCATCTCTTTTCCCTGGTCGAGCACCACCCGGTAGGACCTTGATCTTGAGCTACATTGGAGGTGCTACAAATGTTGGAATATTACAAAAGAGTGAAGA
141	Amaranthus lividus	PPOX_B5_11	cDNA Contig	1751	1950	TCTTCACTCTTTTGTAATATTCCAACATTTGTAGCACCTCCAATGTAGCTCAAGATCAAGGTCCTACCGGGTGGTGCTCGACCAGGGAAAAGAGATGAACTATAAATTGTTCCCAAGGTTTCCACACCCTGGCTGCGGGGATGCAATTGCCCGAATCCTTTTAGTTCTCCATCGATCAAGCATTCTGGTCTAATTGCTTC
142	Amaranthus lividus	PPOX_B5_12	cDNA Contig	1926	2125	TTGGAATATTACAAAAGAGTGAAGATGAACTTGCGGAGACAGTTGATAAGGATCTCAGAAAAATTCTGATAAATCCAAATGCGAAAGGCAGCCGTGTTCTGGGAGTGAGAGTATGGCCAAAGGCAATCCCCCAATTTT

						TAGTTGGTCACTTTGATCTGCTAGATGCT GCAAAAGCTGGTTTGGCAAATGCTGGG CTAAAG
143	Amaranthus lividus	PPOX_B5_12	cDNA Contig	1926	212 5	CTTTAGCCCAGCATTTGCCAAACCAGCTT TTGCAGCATCTAGCAGATCAAAGTGACC AACTAAAAATTGGGGGATTGCCTTTGGC CATACTCTCACTCCCAGAACACGGCTGC CTTTCGCATTTGGATTTATCAGAATTTTT CTGAGATCCTTATCAACTGTCTCCGCAA GTTCATCTTCACTCTTTTGTAATATTCCAA
144	Amaranthus lividus	PPOX_B5_13	cDNA Contig	2101	230 0	TGGTTTGGCAAATGCTGGGCTAAAGGG GTTGTTTCTTGGTGGTAATTATGTATCAG GTGTTGCCTTGGGGAGGTGTATAGAGG GTGCTTATGACTCTGCATCTCAGGTAGT GGATTTCCTCTCACAGTACAAAGACAAG TAGTCAATAGGGCTCCACCTTCCTGGTT AACTAACTTTTTGTAGCTGTTGTAATTTG TATC
145	Amaranthus lividus	PPOX_B5_13	cDNA Contig	2101	230 0	GATACAAATTACAACAGCTACAAAAAGT TAGTTAACCAGGAAGGTGGAGCCCTATT GACTACTTGTCTTTGTACTGTGAGAGGA AATCCACTACCTGAGATGCAGAGTCATA AGCACCCTCTATACACCTCCCCAAGGCA ACACCTGATACATAATTACCACCAAGAA ACAACCCCTTTAGCCCAGCATTTGCCAA ACCA
146	Amaranthus palmeri	PPOX_B6_1	cDNA Contig	1	200	AATCCTTGATTTGAAGATAGGATAACCA GAGAGAGTGCAAGAGAGATGAGTGCCA TGGCGTTATCGAGCAGCATTCTACAATG TCCGCCGCACTCCGACATCTCTTTCCGCT TTTCTGCTTATACACCAACCCGCTCCCCC ATCTTCTTCGGAAGACCTCGAAAATTATC ATATATCCATTGTTCCACAAGCTCAAGCT C
147	Amaranthus palmeri	PPOX_B6_1	cDNA Contig	1	200	GAGCTTGAGCTTGTGGAACAATGGATAT ATGATAATTTTCGAGGTCTTCCGAAGAA GATGGGGGAGCGGGTTGGTGTATAAGC AGAAAAGCGGAAAGAGATGTCGGAGTG CGGCGGACATTGTAGAATGCTGCTCGAT AACGCCATGGCACTCATCTCTCTTGCACT CTCTCTGGTTATCCTATCTTCAAATCAAG GATT
148	Amaranthus palmeri	PPOX_B6_2	cDNA Contig	176	375	TCCATTGTTCCACAAGCTCAAGCTCAACT GCCAATTACCAGAACACGATTACGACCC AAGGAGAAGGAGATAAAGTATTGGATT GTGTAATTGTTGGAGCTGGTATCAGTGG ACTTTGCATTGCTCAGGCTCTTTCTACCA

						AACACATTCAATCCAATCTCAATTTCATT GTCACTGAAGCTAAAAATCGTGTTGGAG GT
149	Amaranthus palmeri	PPOX_B6_2	cDNA Contig	176	375	ACCTCCAACACGATTTTTAGCTTCAGTGA CAATGAAATTGAGATTGGATTGAATGTG TTTGGTAGAAAGAGCCTGAGCAATGCA AAGTCCACTGATACCAGCTCCAACAATT ACACAATCCAATACTTTATCTCCTTCTCCT TGGGTCGTAATCGTGTTCTGGTAATTGG CAGTTGAGCTTGAGCTTGTGGAACAATG GA
150	Amaranthus palmeri	PPOX_B6_3	cDNA Contig	351	550	TGAAGCTAAAAATCGTGTTGGAGGTAAT ATCACTACCATGGAGTCCGATGGCTATA TCTGGGAAGAGGGTCCTAATAGTTTCCA ACCCTCCGATCCTGTGCTTACTATGGCG GTTGACAGTGGATTGAAAGATGATTTGG TCTTGGGAGATCCTAATGCTCCTCGTTTT GTGCTCTGGAATGGTAAATTAAGGCCTG TTC
151	Amaranthus palmeri	PPOX_B6_3	cDNA Contig	351	550	GAACAGGCCTTAATTTACCATTCCAGAG CACAAAACGAGGAGCATTAGGATCTCCC AAGACCAAATCATCTTTCAATCCACTGTC AACCGCCATAGTAAGCACAGGATCGGA GGGTTGGAAACTATTAGGACCCTCTTCC CAGATATAGCCATCGGACTCCATGGTAG TGATATTACCTCCAACACGATTTTTAGCT TCA
152	Amaranthus palmeri	PPOX_B6_4	cDNA Contig	526	725	TGGAATGGTAAATTAAGGCCTGTTCCTT CCAAACCTACGGACCTTCCCTTTTTTGAT CTCATGAGCTTTCCTGGTAAGATTAGGG CTGGTCTTGGTGCACTTGGTCTTCGTCCT TCTCCTCCTCCTCCTTCTTATGAGGAATC TGTTGAAGAATTTGTGCGCCGTAATCTC GGCGATGAGGTCTTCGAACGCTTGATCG A
153	Amaranthus palmeri	PPOX_B6_4	cDNA Contig	526	725	TCGATCAAGCGTTCGAAGACCTCATCGC CGAGATTACGGCGCACAAATTCTTCAAC AGATTCCTCATAAGAAGGAGGAGGAGG AGAAGGACGAAGACCAAGTGCACCAAG ACCAGCCCTAATCTTACCAGGAAAGCTC ATGAGATCAAAAAAGGGAAGGTCCGTA GGTTTGGAAGGAACAGGCCTTAATTTAC CATTCCA
154	Amaranthus palmeri	PPOX_B6_5	cDNA Contig	701	900	ATGAGGTCTTCGAACGCTTGATCGAACC CTTTTGTTCTGGTGTGTATGCTGGTGATC CTTCAAAGTTGAGTATGAAAGCTGCATT TGGAAAGGTCTGGACCTTAGAGCAAAA

						GGGTGGTAGTATCATCGCCGGTACACTC AAAACTATTCAGGAAAGGAAGAATAATC CTCCACCGCCTCGAGACCCCCGCCTTCCT AAA
155	Amaranthus palmeri	PPOX_B6_5	cDNA Contig	701	900	TTTAGGAAGGCGGGGGTCTCGAGGCGG TGGAGGATTATTCTTCCTTTCCTGAATAG TTTTGAGTGTACCGGCGATGATACTACC ACCCTTTTGCTCTAAGGTCCAGACCTTTC CAAATGCAGCTTTCATACTCAACTTTGAA GGATCACCAGCATACACACCAGAACAAA AGGGTTCGATCAAGCGTTCGAAGACCTC AT
156	Amaranthus palmeri	PPOX_B6_6	cDNA Contig	876	1075	GCCTCGAGACCCCCGCCTTCCTAAACCT AAGGGCCAGACTGTTGGATCCTTTAGGA AAGGGCTCATTATGTTACCTACCGCCATT GCTGCTAGGCTTGGCAGTAAAGTCAAAC TATCGTGGACACTTTCTAATATTGATAAG TCGCTCAATGGTGAATACAATCTCACTTA TCAAACACCCGATGGACCGGTTTCTGTT A
157	Amaranthus palmeri	PPOX_B6_6	cDNA Contig	876	1075	TAACAGAAACCGGTCCATCGGGTGTTTG ATAAGTGAGATTGTATTCACCATTGAGC GACTTATCAATATTAGAAAGTGTCCACG ATAGTTTGACTTTACTGCCAAGCCTAGC AGCAATGGCGGTAGGTAACATAATGAG CCCTTTCCTAAAGGATCCAACAGTCTGG CCCTTAGGTTTAGGAAGGCGGGGGTCTC GAGGC
158	Amaranthus palmeri	PPOX_B6_7	cDNA Contig	1051	1250	ACACCCGATGGACCGGTTTCTGTTAGGA CCAAAGCGGTTGTCATGACTGTCCCTTC ATACATTGCAAGTAGCCTGCTTCGTCCG CTCTCATGATGTTGCTGCAGATTCTCTTT CTAAATTTTACTATCCACCAGTCGCAGCA GTGTCCCTTTCTTATCCCAAAGAAGCAAT TAGACCAGAATGCTTGATCGATGGAGA AC
159	Amaranthus palmeri	PPOX_B6_7	cDNA Contig	1051	1250	GTTCTCCATCGATCAAGCATTCTGGTCTA ATTGCTTCTTTGGGATAAGAAAGGGACA CTGCTGCGACTGGTGGATAGTAAAATTT AGAAAGAGAATCTGCAGCAACATCATG AGAGCGGACGAAGCAGGCTACTTGCAA TGTATGAAGGGACAGTCATGACAACCG CTTTGGTCCTAACAGAAACCGGTCCATC GGGTGT
160	Amaranthus palmeri	PPOX_B6_8	cDNA Contig	1226	1425	CCAGAATGCTTGATCGATGGAGAACTAA AAGGATTCGGGCAATTGCATCCCGCAGC CAGGGTGTGGAAACCTTGGGAACAATTT

						ATAGTTCATCTCTTTTCCCTGGTCGAGCA CCACCTGGTAGGACCTTGATCTTGAGCT ACATTGGAGGTGCTACAAATGTTGGCAT ATTACAAAAGAGTGAAGATGAACTTGC GGAG
161	Amaranthus palmeri	PPOX_B6_8	cDNA Contig	1226	1425	CTCCGCAAGTTCATCTTCACTCTTTTGTA ATATGCCAACATTTGTAGCACCTCCAAT GTAGCTCAAGATCAAGGTCCTACCAGGT GGTGCTCGACCAGGGAAAAGAGATGAA CTATAAATTGTTCCCAAGGTTTCCACACC CTGGCTGCGGGATGCAATTGCCCGAATC CTTTTAGTTCTCCATCGATCAAGCATTCT GG
162	Amaranthus palmeri	PPOX_B6_9	cDNA Contig	1401	1600	AAAGAGTGAAGATGAACTTGCGGAGAC AGTTGATAAGGATCTCAGAAAAATTCTG ATAAATCCAAATGCGAAAGGCAGCCGT GTTCTGGGAGTGAGAGTATGGCCAAAG GCAATCCCCCAATTTTTAGTAGGTCATTT TGATCTGCTAGATGCTGCAAAAGCGGGT TTGGCAAATGCTGGACTAAAGGGGTTGT TTCTTG
163	Amaranthus palmeri	PPOX_B6_9	cDNA Contig	1401	1600	CAAGAAACAACCCCTTTAGTCCAGCATT TGCCAAACCCGCTTTTGCAGCATCTAGC AGATCAAAATGACCTACTAAAAATTGGG GGATTGCCTTTGGCCATACTCTCACTCCC AGAACACGGCTGCCTTTCGCATTTGGAT TTATCAGAATTTTTCTGAGATCCTTATCA ACTGTCTCCGCAAGTTCATCTTCACTCTT T
164	Amaranthus palmeri	PPOX_B6_10	cDNA Contig	1576	1775	GCTGGACTAAAGGGGTTGTTTCTTGGTG GTAATTATGTATCAGGTGTTGCCTTGGG GAGGTGTATAGAGGGTGCTTATGACTCT GCATCTCAGGTTGTGGATTTCCTCTCACA GTACAAAGACAAGTAGTCATCCTGATTA ACTAACTTTTTGTAGCTGTTGTAATTTGT ATCATGTAATATTATTATTTATTCAGATG T
165	Amaranthus palmeri	PPOX_B6_10	cDNA Contig	1576	1775	ACATCTGAATAAATAATAATATTACATG ATACAAATTACAACAGCTACAAAAAGTT AGTTAATCAGGATGACTACTTGTCTTTGT ACTGTGAGAGGAAATCCACAACCTGAG ATGCAGAGTCATAAGCACCCTCTATACA CCTCCCCAAGGCAACACCTGATACATAA TTACCACCAAGAAACAACCCCTTTAGTCC AGC
166	Amaranthus palmeri	PPOX_B13_1	gDNA Contig	1	200	ACATAAAACCGCTACATGGAGGCACGG TTTTGTGTCAAATGTAAACCACTACTCCA

						TGTAGCGGTTTGGTGCACATACTTTTCA ACTCTCAGTGTGTTGCTGACGTGGACGG TAGTGCGGGAATTATTTTACAAAGTAAC GTAAAGTGGGAATTTTTTTTAAATAAGC TGCATTTTGGGCAAAGACTCTACTTTTAC TTT
167	Amaranthus palmeri	PPOX_B13_1	gDNA Contig	1	200	AAAGTAAAAGTAGAGTCTTTGCCCAAAA TGCAGCTTATTTAAAAAAAATTCCCACTT TACGTTACTTTGTAAAATAATTCCCGCAC TACCGTCCACGTCAGCAACACACTGAGA GTTGAAAAGTATGTGCACCAAACCGCTA CATGGAGTAGTGGTTTACATTTGACACA AAACCGTGCCTCCATGTAGCGGTTTTAT GT
168	Amaranthus palmeri	PPOX_B13_2	gDNA Contig	176	375	TGGGCAAAGACTCTACTTTTACTTTTAAT TTTATTTTTAATTTTAATAAAGAAGGAAG AAAAAAAACAAATGTATTTATGGATAAA GAATCCTTGATTTGAAGATAGGATAACC AGAGAGAGGGCAAGAGAGATGAGTGC CATGGCGTTATCGAGCAGCATTCTACAA TGTCTGCCGCACTCCGACATCTCTTTCCG CTT
169	Amaranthus palmeri	PPOX_B13_2	gDNA Contig	176	375	AAGCGGAAAGAGATGTCGGAGTGCGGC AGACATTGTAGAATGCTGCTCGATAACG CCATGGCACTCATCTCTCTTGCCCTCTCT CTGGTTATCCTATCTTCAAATCAAGGATT CTTTATCCATAAATACATTTGTTTTTTTTC TTCCTTCTTTATTAAAATTAAAAATAAAA TTAAAAGTAAAAGTAGAGTCTTTGCCCA
170	Amaranthus palmeri	PPOX_B13_3	gDNA Contig	351	550	CGCACTCCGACATCTCTTTCCGCTTTTCT GCTTATACACCAACCCGCTCCCCCATCTT CTTCGGAAGACCACGAAAATTATCATAT ATCCATTGTTCCACAAGCTCAAGCTCAAC TGCCAATTACCAGAACACGATTACGACC CAAGGAGAAGGAGATAAAGTATTGGAT TGTGTAATTGTTGGAGCTGGTATCAGTG GA
171	Amaranthus palmeri	PPOX_B13_3	gDNA Contig	351	550	TCCACTGATACCAGCTCCAACAATTACAC AATCCAATACTTTATCTCCTTCTCCTTGG GTCGTAATCGTGTTCTGGTAATTGGCAG TTGAGCTTGAGCTTGTGGAACAATGGAT ATATGATAATTTTCGTGGTCTTCCGAAG AAGATGGGGGAGCGGGTTGGTGTATAA GCAGAAAAGCGGAAAGAGATGTCGGA GTGCG
172	Amaranthus palmeri	PPOX_B13_4	gDNA Contig	526	725	AATTGTTGGAGCTGGTATCAGTGGACTT TGCATTGCTCAGGCTCTTTCTACTAAACA

						CATTCAATCCAATCTCAATTTCATTGTCA CTGAAGCTAAAAATCGTGTTGGAGGTAA TATCACTACCATGGAGTCCGATGGCTAT ATCTGGGAAGAGGGTCCTAATAGTTTCC AACCCTCCGATCCTGTGCTTACTATGGC GG
173	Amaranthus palmeri	PPOX_B13_4	gDNA Contig	526	725	CCGCCATAGTAAGCACAGGATCGGAGG GTTGGAAACTATTAGGACCCTCTTCCCA GATATAGCCATCGGACTCCATGGTAGTG ATATTACCTCCAACACGATTTTTAGCTTC AGTGACAATGAAATTGAGATTGGATTGA ATGTGTTTAGTAGAAAGAGCCTGAGCAA TGCAAAGTCCACTGATACCAGCTCCAAC AATT
174	Amaranthus palmeri	PPOX_B13_5	gDNA Contig	701	900	TCCGATCCTGTGCTTACTATGGCGGTAA ACTCATTCTTCTCTCTTTCTCCAATTTTTG ATCATTCTATTCAATTTTCCCCTTATTGAG TCAAAATCAAATTCCAGGTTGACAGTGG ATTGAAAGATGATTTGGTCTTGGGAGAT CCTAATGCTCCTCGTTTTGTGCTCTGGAA TGGTAAATTAAGGCCTGTTCCTTCCAA
175	Amaranthus palmeri	PPOX_B13_5	gDNA Contig	701	900	TTGGAAGGAACAGGCCTTAATTTACCAT TCCAGAGCACAAAACGAGGAGCATTAG GATCTCCCAAGACCAAATCATCTTTCAAT CCACTGTCAACCTGGAATTTGATTTTGAC TCAATAAGGGGAAAATTGAATAGAATG ATCAAAAATTGGAGAAAGAGAGAAGAA TGAGTTTACCGCCATAGTAAGCACAGGA TCGGA
176	Amaranthus palmeri	PPOX_B13_6	gDNA Contig	876	1075	GTAAATTAAGGCCTGTTCCTTCCAAACCT ACGGACCTTCCCTTTTTTGATCTCATGAG CTTTCCTGGTAAGATTAGGGCTGGTCTT GGTGCACTTGGTCTTCGTCCTTCTCCCCC TCCTCCTTCTTATGAGGAATCTGTTGAAG AGTTTGTGCGCCGTAATCTCGGCGATGA GGTCTTCGAACGCTTGATCGAACCCTTT
177	Amaranthus palmeri	PPOX_B13_6	gDNA Contig	876	1075	AAAGGGTTCGATCAAGCGTTCGAAGAC CTCATCGCCGAGATTACGGCGCACAAAC TCTTCAACAGATTCCTCATAAGAAGGAG GAGGGGGAGAAGGACGAAGACCAAGT GCACCAAGACCAGCCCTAATCTTACCAG GAAAGCTCATGAGATCAAAAAAGGGAA GGTCCGTAGGTTTGGAAGGAACAGGCC TTAATTTAC
178	Amaranthus palmeri	PPOX_B13_7	gDNA Contig	1051	1250	CTTCGAACGCTTGATCGAACCCTTTTGTT CTGGTACCTACCCTGTTTAATTTTTCAGT TTTCCCCCTTTTTTCTCTACTACTCCTACT

						TTATTGATTCTTATCTATGAGTGTTCTAT GGGAATTGACATTAATTGTTCAGGTGTG TATGCTGGTGATCCTTCAAAGTTGAGTA TGAAAGCTGCATTTGGAAAGGTCTGGA
179	Amaranthus palmeri	PPOX_B13_7	gDNA Contig	1051	1250	TCCAGACCTTTCCAAATGCAGCTTTCATA CTCAACTTTGAAGGATCACCAGCATACA CACCTGAACAATTAATGTCAATTCCCATA GAACACTCATAGATAAGAATCAATAAAG TAGGAGTAGTAGAGAAAAAAGGGGGA AAACTGAAAAATTAAACAGGGTAGGTA CCAGAACAAAAGGGTTCGATCAAGCGTT CGAAG
180	Amaranthus palmeri	PPOX_B13_8	gDNA Contig	1226	1425	AAAGCTGCATTTGGAAAGGTCTGGACCT TAGAGCAAAAGGGTGGTAGTATCATCG CCGGTACACTCAAAACTATTCAGGAAAG GAAGAATAATCCTCCACCGCCTCGAGAC CCGTCCGTAATCACCATTACTCATTGCTT TCCTTCACCTTGTATCTTACCTTAATATAC ATGTATTTAATTGATAATGTCACATTGCC T
181	Amaranthus palmeri	PPOX_B13_8	gDNA Contig	1226	1425	AGGCAATGTGACATTATCAATTAAATAC ATGTATATTAAGGTAAGATACAAGGTGA AGGAAAGCAATGAGTAATGGTGATTAC GGACGGGTCTCGAGGCGGTGGAGGATT ATTCTTCCTTTCCTGAATAGTTTTGAGTG TACCGGCGATGATACTACCACCCTTTTGC TCTAAGGTCCAGACCTTTCCAAATGCAG CTTT
182	Amaranthus palmeri	PPOX_B13_9	gDNA Contig	1401	1600	TTTAATTGATAATGTCACATTGCCTCATT TGCAGCCGCCTTCCTAAACCTAAGGGCC AGACTGTTGGATCCTTTAGGAAAGGGCT CATTATGTTACCTACCGCCATTGCTGCTA GGTATCTTTTGACTCTCAAATCTTAAATA TTTCTCATCTTTTCCTTCTGCTAATACTAG TATGTTTACCATCTTTTTATTTTTTTA
183	Amaranthus palmeri	PPOX_B13_9	gDNA Contig	1401	1600	TAAAAAAATAAAAAGATGGTAAACATAC TAGTATTAGCAGAAGGAAAAGATGAGA AATATTTAAGATTTGAGAGTCAAAAGAT ACCTAGCAGCAATGGCGGTAGGTAACA TAATGAGCCCTTTCCTAAAGGATCCAAC AGTCTGGCCCTTAGGTTTAGGAAGGCG GCTGCAAATGAGGCAATGTGACATTATC AATTAAA
184	Amaranthus palmeri	PPOX_B13_10	gDNA Contig	1576	1775	TGTTTACCATCTTTTTATTTTTTTAGGCTT GGCAGTAAAGTCAAACTATCGTGGACAC TTTCTAATATTGATAAGTCGCTCAATGGT GAATACAATCTCACTTATCAAACACCCG

						ATGGACCGGTTTCTGTTAGGACCAAAGC GGTTGTCATGACTGTCCCTTCATACATTG CAAGTAGCCTGCTTCGTCCGCTCTCAGT
185	Amaranthus palmeri	PPOX_B13_10	gDNA Contig	1576	1775	ACTGAGAGCGGACGAAGCAGGCTACTT GCAATGTATGAAGGGACAGTCATGACA ACCGCTTTGGTCCTAACAGAAACCGGTC CATCGGGTGTTTGATAAGTGAGATTGTA TTCACCATTGAGCGACTTATCAATATTAG AAAGTGTCCACGATAGTTTGACTTTACT GCCAAGCCTAAAAAAATAAAAAGATGG TAAACA
186	Amaranthus palmeri	PPOX_B13_11	gDNA Contig	1751	1950	GTAGCCTGCTTCGTCCGCTCTCAGTGAG TATCATTCTTTCCTTCATTTCTTTTCGTTT ATTGCTGTCCAATGTCTTGTTAAACACCA GTTTGGCCTTGTGCTCGTGAATTATGGC TACAATGTTAACTGATTCTGTGATTCAG GCACTGTGGGAGATGCCTAAGTTTCTAA AACCTCTGCGCATAATGTTTGTTTGGAT G
187	Amaranthus palmeri	PPOX_B13_11	gDNA Contig	1751	1950	CATCCAAACAAACATTATGCGCAGAGGT TTTAGAAACTTAGGCATCTCCCACAGTG CCTGAATCACAGAATCAGTTAACATTGT AGCCATAATTCACGAGCACAAGGCCAAA CTGGTGTTTAACAAGACATTGGACAGCA ATAAACGAAAAGAAATGAAGGAAAGAA TGATACTCACTGAGAGCGGACGAAGCA GGCTAC
188	Amaranthus palmeri	PPOX_B13_12	gDNA Contig	1926	2125	TCTGCGCATAATGTTTGTTTGGATGTTA GGAATTGCATTGAAAAATTGCTTTTGTG ATGTTGATGTTAATACCAATTACAAGTG TGTTCTTCAACTTCTGCAATACCTTGTTC GAGTGAGCTTGAGGGGGTTTAGATTAG TGTCCAATGTGAAACTAGCAAATGAACT CCAAGCGCTGGGATAGGTCCTTGGGAT GGAGC
189	Amaranthus palmeri	PPOX_B13_12	gDNA Contig	1926	2125	GCTCCATCCCAAGGACCTATCCCAGCGC TTGGAGTTCATTTGCTAGTTTCACATTGG ACACTAATCTAAACCCCCTCAAGCTCACT CGAACAAGGTATTGCAGAAGTTGAAGA ACACACTTGTAATTGGTATTAACATCAAC ATCACAAAAGCAATTTTTCAATGCAATTC CTAACATCCAAACAAACATTATGCGCAG A
190	Amaranthus palmeri	PPOX_B13_13	gDNA Contig	2101	2300	CTGGGATAGGTCCTTGGGATGGAGCCC CTGATACCCAAGACAGTATTCAAACCCT CTAAGTAGAGTGAGAGATCAAGGAAAG AAACTGGGTGGTTCCTCAAATCGTAAAA

						AATGAATACAGTGTCATGATTGCTAATC TTATCACAAATCGTAAAAAATGAATTAT GGTCGATTTTGGACTATTTTTGGGTCATT TTGAG
191	Amaranthus palmeri	PPOX_B13_13	gDNA Contig	2101	2300	CTCAAAATGACCCAAAAATAGTCCAAAA TCGACCATAATTCATTTTTTACGATTTGT GATAAGATTAGCAATCATGACACTGTAT TCATTTTTTACGATTTGAGGAACCACCCA GTTTCTTTCCTTGATCTCTCACTCTACTTA GAGGGTTTGAATACTGTCTTGGGTATCA GGGGCTCCATCCCAAGGACCTATCCCAG
192	Amaranthus palmeri	PPOX_B13_14	gDNA Contig	2276	2475	TGGACTATTTTTGGGTCATTTTGAGTGA ATCTCAAACTTAAAAAGCGAGTCTTCTA GCAGTTCTTGTTACAGCGGGGCATACAT AGGTAGGAATTTGGTTTTTTACTATTTGA GCCTTTTGACTGTTGTGGCCGGTAATAT GGAATAGTCTAGCACTTCTGCGTGTGTA CAACTAGTATTTATTGTAATTATGTGATC GC
193	Amaranthus palmeri	PPOX_B13_14	gDNA Contig	2276	2475	GCGATCACATAATTACAATAAATACTAG TTGTACACACGCAGAAGTGCTAGACTAT TCCATATTACCGGCCACAACAGTCAAAA GGCTCAAATAGTAAAAAACCAAATTCCT ACCTATGTATGCCCCGCTGTAACAAGAA CTGCTAGAAGACTCGCTTTTTAAGTTTGA GATTCACTCAAAATGACCCAAAAATAGT CCA
194	Amaranthus palmeri	PPOX_B13_15	gDNA Contig	2451	2650	GTATTTATTGTAATTATGTGATCGCACTT AACTCTCAGATAAAACCTTAAGCACTAA CATTTTGTTTTGGTTGAAGGAATCAGGA GGAAAGAAAATTGAGGGATTTGTTGGT ATATAGATTCCTTTGTTTGGATAACAAAA TTGGAGTGGAGAGATTTGGAAGGAAGA ATTTTATAGGGATTAGTTCCCATTACACT TAT
195	Amaranthus palmeri	PPOX_B13_15	gDNA Contig	2451	2650	ATAAGTGTAATGGGAACTAATCCCTATA AAATTCTTCCTTCCAAATCTCTCCACTCC AATTTTGTTATCCAAACAAAGGAATCTAT ATACCAACAAATCCCTCAATTTTCTTTCC TCCTGATTCCTTCAACCAAAACAAAATGT TAGTGCTTAAGGTTTTATCTGAGAGTTA AGTGCGATCACATAATTACAATAAATAC
196	Amaranthus palmeri	PPOX_B10_1	gDNA Contig	1	200	ATTATATGTCATGTAATATAAATAGAAA ATTATTATTTAAATAATTAATTTCAAACT TTGTATCAATAAAACACTTAATTTTTTGA TTATTAGAGTGTATATGAAAAATATGTA AAAAAAAGTCGTACATAAGAAAATTTCA

						TTGTAATTAAGACTAAATTTGATGAATC GATTCGTAAAATTGCTCTATGATCCTACA A
197	Amaranthus palmeri	PPOX_B10_1	gDNA Contig	1	200	TTGTAGGATCATAGAGCAATTTTACGAA TCGATTCATCAAATTTAGTCTTAATTACA ATGAAATTTTCTTATGTACGACTTTTTTTT ACATATTTTTCATATACACTCTAATAATC AAAAAATTAAGTGTTTTATTGATACAAA GTTTGAAATTAATTATTTAAATAATAATT TTCTATTTATATTACATGACATATAAT
198	Amaranthus palmeri	PPOX_B10_2	gDNA Contig	176	375	GTAAAATTGCTCTATGATCCTACAACCCA CTTATTTATTTCAATTAGGACTGTAATTA AGTTTAAATTTACATTAGTTGAATTATTG CCTTTTATGAGAGATGTGGTATCGTATG CTATCTAAAGGCTAAAACTATTAAGTCG ATTTAAAATCTATCCAAATTTTATACTTA ATTGAACTAGGTTGAATTGAACGGAGA A
199	Amaranthus palmeri	PPOX_B10_2	gDNA Contig	176	375	TTCTCCGTTCAATTCAACCTAGTTCAATT AAGTATAAAATTTGGATAGATTTTAAAT CGACTTAATAGTTTTAGCCTTTAGATAGC ATACGATACCACATCTCTCATAAAAGGC AATAATTCAACTAATGTAAATTTAAACTT AATTACAGTCCTAATTGAAATAAATAAG TGGGTTGTAGGATCATAGAGCAATTTTA C
200	Amaranthus palmeri	PPOX_B10_3	gDNA Contig	351	550	GAACTAGGTTGAATTGAACGGAGAATT AATCAAAAATGTACCACCCTTGAATCAC TATCAATATTAAAGCAAACCAACTTTAAT CCATAAATGAAAATCAACTTAGTCAAAT CACATATGAACCCGTCAATCATGCCAAA AACTCTGAGAGTGTTTGATATTATAACTT ATTAGAAAATTTTAACTTATTTGACGCAA AT
201	Amaranthus palmeri	PPOX_B10_3	gDNA Contig	351	550	ATTTGCGTCAAATAAGTTAAAATTTTCTA ATAAGTTATAATATCAAACACTCTCAGA GTTTTTGGCATGATTGACGGGTTCATAT GTGATTTGACTAAGTTGATTTTCATTTAT GGATTAAAGTTGGTTTGCTTTAATATTG ATAGTGATTCAAGGGTGGTACATTTTTG ATTAATTCTCCGTTCAATTCAACCTAGTT C
202	Amaranthus palmeri	PPOX_B10_4	gDNA Contig	526	725	AAATTTTAACTTATTTGACGCAAATAGAC GGATAAGTGTTCTAACCATCTAGCTCTA GTGTTTCGCTTAATAAAAATAAATAATTT TTAAACATGCTCCTATAAATCAACTGATC AAACCGGTTTATAAAATCACCAACTAAA

						TCGACCCATTCAAATCAAATACCAACTC GGTCGTTTGCCAAACACTTCGCTATGAC T
203	Amaranthus palmeri	PPOX_B10_4	gDNA Contig	526	725	AGTCATAGCGAAGTGTTTGGCAAACGAC CGAGTTGGTATTTGATTTGAATGGGTCG ATTTAGTTGGTGATTTTATAAACCGGTTT GATCAGTTGATTTATAGGAGCATGTTTA AAAATTATTTATTTTTATTAAGCGAAACA CTAGAGCTAGATGGTTAGAACACTTATC CGTCTATTTGCGTCAAATAAGTTAAAATT T
204	Amaranthus palmeri	PPOX_B10_5	gDNA Contig	701	900	GTTTGCCAAACACTTCGCTATGACTTCAA TCAAACAAAATGCAACTTGTTTGCTGCT ACCGACTTACCGCCTTACCCAGTACGCG GAAAAGATAATCAATGAGAATCAAATTC AAATCTTGACAAGATAATATGATTATCC CATTATTATCAATTTAATTATGATTAACC TTTTTTAAGATAACCTAATAATTCATTGA T
205	Amaranthus palmeri	PPOX_B10_5	gDNA Contig	701	900	ATCAATGAATTATTAGGTTATCTTAAAAA AGGTTAATCATAATTAAATTGATAATAA TGGGATAATCATATTATCTTGTCAAGATT TGAATTTGATTCTCATTGATTATCTTTTCC GCGTACTGGGTAAGGCGGTAAGTCGGT AGCAGCAAACAAGTTGCATTTTGTTTGA TTGAAGTCATAGCGAAGTGTTTGGCAAA C
206	Amaranthus palmeri	PPOX_B10_6	gDNA Contig	876	1075	TAAGATAACCTAATAATTCATTGATAAG AATGATTAGCTTGTTTAATCAACTTCAAT TTACAATTTCTACCTTGGAAAATTCAAAC CAAAAAGTGTAAAAGAATTGATTTGGCA GATTGCGACAATTGGATTGAGAAATTGA CAAATTTAAACTGATCTTATGGTAATTCA ATCCATAACCCACCTTTCACCAAAACTTG
207	Amaranthus palmeri	PPOX_B10_6	gDNA Contig	876	1075	CAAGTTTTGGTGAAAGGTGGGTTATGG ATTGAATTACCATAAGATCAGTTTAAATT TGTCAATTTCTCAATCCAATTGTCGCAAT CTGCCAAATCAATTCTTTTACACTTTTTG GTTTGAATTTTCCAAGGTAGAAATTGTA AATTGAAGTTGATTAAACAAGCTAATCA TTCTTATCAATGAATTATTAGGTTATCTT A
208	Amaranthus palmeri	PPOX_B10_7	gDNA Contig	1051	1250	ATAACCCACCTTTCACCAAAACTTGCATT GCCATCGCCATTGTCAATTTCCGCCAAG AACTACCCAGTAGCTGTAATGGGCAACA TTTCTGAGCGGGAAGAACCCAGTAAGTC AACCTTTCTTCATATATCTTAAGCAATCC

						CTTTTGAACTACACTTTCTTTTGATGATTT TACATTCTGAATTGTTTTTATTGGGGAT
209	Amaranthus palmeri	PPOX_B10_7	gDNA Contig	1051	1250	ATCCCCAATAAAAACAATTCAGAATGTA AAATCATCAAAAGAAAGTGTAGTTCAAA AGGGATTGCTTAAGATATATGAAGAAA GGTTGACTTACTGGGTTCTTCCCGCTCA GAAATGTTGCCCATTACAGCTACTGGGT AGTTCTTGGCGGAAATTGACAATGGCGA TGGCAATGCAAGTTTTGGTGAAAGGTG GGTTAT
210	Amaranthus palmeri	PPOX_B10_8	gDNA Contig	1226	1425	ATTCTGAATTGTTTTTATTGGGGATTTTC AGCTTCTGCGAAAAGGGTTGCTGTTGTT GGTGCTGGAGTTAGGTAAATTTTATGTT ACTTTTCCAGAAAGATTGTGAAATTTTGC TTTGATTGTTCTGAATTTTGATGGGTTTT TGCATAATGATTTGTATTTGGGATGGGC AAATTTTTCAGAAGATCATACTACTTTTT
211	Amaranthus palmeri	PPOX_B10_8	gDNA Contig	1226	1425	AAAAAGTAGTATGATCTTCTGAAAAATT TGCCCATCCCAAATACAAATCATTATGCA AAAACCCATCAAAATTCAGAACAATCAA AGCAAAATTTCACAATCTTTCTGGAAAA GTAACATAAAATTTACCTAACTCCAGCA CCAACAACAGCAACCCTTTTCGCAGAAG CTGAAAATCCCCAATAAAAACAATTCAG AAT
212	Amaranthus palmeri	PPOX_B10_9	gDNA Contig	1401	1600	TTTTCAGAAGATCATACTACTTTTTAACT TGTGTTTTCTGTAGAATTTTATTGATTTT CTAAACTGTTTTTGTGGGATTGTTCTAGT GGACTTGCTGCTGCATATAAGCTAAAAT CCCATGGTTTGAGTGTGACATTGTTTGA AGCTGATTCTAGAGCTGGAGGCAAGCTT AAAACTGTTAAAAAAGATGGTTTTATTT G
213	Amaranthus palmeri	PPOX_B10_9	gDNA Contig	1401	1600	CAAATAAAACCATCTTTTTTAACAGTTTT AAGCTTGCCTCCAGCTCTAGAATCAGCT TCAAACAATGTCACACTCAAACCATGGG ATTTTAGCTTATATGCAGCAGCAAGTCC ACTAGAACAATCCCACAAAAACAGTTTA GAAAATCAATAAAATTCTACAGAAAACA CAAGTTAAAAAGTAGTATGATCTTCTGA AAA
214	Amaranthus palmeri	PPOX_B10_10	gDNA Contig	1576	1775	CTGTTAAAAAAGATGGTTTTATTTGGGA TGAGGGGGCAAATACTATGGTAATGTTT ATCAACAATGCTGGTTTTCTGATATAGA ACCAATTACTTATTTATTAACTGGATTTT TGGTCAAACCTGTGGTTGGCATGTCACT TTATGCTATGATTGTAGACAGAAAGTGA

						GGCAGAGGTGTCGAGTTTGATCGATGATCTT
215	Amaranthus palmeri	PPOX_B10_10	gDNA Contig	1576	1775	AAGATCATCGATCAAACTCGACACCTCTGCCTCACTTTCTGTCTACAATCATAGCATAAAGTGACATGCCAACCACAGGTTTGACCAAAAATCCAGTTAATAAATAAGTAATTGGTTCTATATCAGAAAACCAGCATTGTTGATAAACATTACCATAGTATTTGCCCCCTCATCCCAAATAAAACCATCTTTTTTAACAG
216	Amaranthus palmeri	PPOX_B10_11	gDNA Contig	1751	1950	GGTGTCGAGTTTGATCGATGATCTTGGGCTTCGTGAGAAGCAACAGTTGGTAAGTTTTCCGTCTAAGCCCATTCCCTTTGCTCTCTAGGTGCAAAAATACGGTAATAGTCATGATCGTGGTAATGACATGGTGATGCGGTGACGGGAGTTATGTGATCGCTATTCCAACTATAGGTCGAAAACATGATATTTTCCTTGTG
217	Amaranthus palmeri	PPOX_B10_11	gDNA Contig	1751	1950	CACAAGGAAAATATCATGTTTTCGACCTATAGTTGGAATAGCGATCACATAACTCCCGTCACCGCATCACCATGTCATTACCACGATCATGACTATTACCGTATTTTTGCACCTAGAGAGCAAAGGGAATGGGCTTAGACGGAAAACTTACCAACTGTTGCTTCTCACGAAGCCCAAGATCATCGATCAAACTCGACACC
218	Amaranthus palmeri	PPOX_B10_12	gDNA Contig	1926	2125	TCGAAAACATGATATTTTCCTTGTGACGTTCCGAAATGCGGTATTTTTACACCTTTACATTGCGGGGAAAAATAGGTTTAGTTTTTTTGAATACCTTTACAAGGCGGCTGATGCGATGAAGCCTTGTTTTTGCATTATGTGCTAGAAGCAAATTATTATATCTTTAATTAATGTAATGTATCATCAGCTTAAAACAGCCT
219	Amaranthus palmeri	PPOX_B10_12	gDNA Contig	1926	2125	AGGCTGTTTTAAGCTGATGATACATTACATTAATTAAAGATATAATAATTTGCTTCTAGCACATAATGCAAAAACAAGGCTTCATCGCATCAGCCGCCTTGTAAAGGTATTCAAAAAAACTAAACCTATTTTTCCCCGCAATGTAAAGGTGTAAAAATACCGCATTTCGGAACGTCACAAGGAAAATATCATGTTTTCGA
220	Amaranthus palmeri	PPOX_B10_13	gDNA Contig	2101	2300	ATGTATCATCAGCTTAAAACAGCCTTATTGTACTTCTTAATCTAGTTTTGACTTTTGAGGTTGCTTTTACGAGATCCTTATAAATTGCTTTTTCTGTCACAGCCAATTTCACAAAATAAAAGGTACATAGCTAGAGATGGTCTTCCGGTGCTAGTAAGTCCTCTGCATTTTCT

						TTTGACCTCTATGAACTTCTAACACTG
221	Amaranthus palmeri	PPOX_B10_13	gDNA Contig	2101	2300	CAGTGTTAGAAGTTCATAGAGGTCAAAAGAAAATGCAGAGGACTTACTAGCACCGGAAGACCATCTCTAGCTATGTACCTTTTATTTTGTGAAATTGGCTGTGACAGAAAAAGCAATTTATAAGGATCTCGTAAAAGCAACCTCAAAAGTCAAAACTAGATTAAGAAGTACAATAAGGCTGTTTTAAGCTGATGATACAT
222	Amaranthus palmeri	PPOX_B10_14	gDNA Contig	2276	2475	TGACCTCTATGAACTTCTAACACTGGATACTGAGTTGTATTTGTATTCGAGGCAAATTCTATATTTTCCAATCTGTTTCTTATTGACAGTTACTTGCAACCTTTGCAGCTACCTTCAAATCCCGCTGCACTGCTCACGAGCAATTTCCTTTCAGCAAAATCAAAGGTTATTTATGCTAAAACATGTTTGTTTGTTTTTTT
223	Amaranthus palmeri	PPOX_B10_14	gDNA Contig	2276	2475	AAAAAAACAAACAAACATGTTTTAGCATAAATAACCTTTGATTTTGCTGAAAGGAAATTGCTCGTGAGCAGTGCAGCGGGATTTGAAGGTAGCTGCAAAGGTTGCAAGTAACTGTCAATAAGAAACAGATTGGAAAATATAGAATTTGCCTCGAATACAAATACAACTCAGTATCCAGTGTTAGAAGTTCATAGAGGTCA
224	Amaranthus palmeri	PPOX_B10_15	gDNA Contig	2451	2650	CTAAAACATGTTTGTTTGTTTTTTTTTAACTTAGCTTTTGGTGTATGCAATAATTTGGTTTCTAAAACTAAGTGATTGACCGAAAAGGAGGGACAAAGGACATAGAATTGCAAATTTTTGTTCTTGACGTATTTTTACTTTTAGAGCATCCCCTTGTGTAAAACTTTTATTTTAGAGCTGCAAGAATTTGTTGCATCTTT
225	Amaranthus palmeri	PPOX_B10_15	gDNA Contig	2451	2650	AAAGATGCAACAAATTCTTGCAGCTCTAAAATAAAAGTTTTACACAAGGGGATGCTCTAAAAGTAAAAATACGTCAAGAACAAAAATTTGCAATTCTATGTCCTTTGTCCCTCCTTTTCGGTCAATCACTTAGTTTTAGAAACCAAATTATTGCATACACCAAAAGCTAAGTTAAAAAAAAACAAACAAACATGTTTTAG
226	Amaranthus palmeri	PPOX_B10_16	gDNA Contig	2626	2825	AGCTGCAAGAATTTGTTGCATCTTTTGTTATGATTTAATTTTGATGCTTTTAGCTGCAACAGTTTGTTGATAAAAAGGCCACTGCTTTTTCTCAGCTGCAAATTATGTTGGAACCATTTCTCTGGAAAAAACGCAATGCTACTGAGCTTTCTGATGAGCATGTTCAGGAAAGGCAAGTGCCCTTGCTCTATCTATACTG

227	Amaranthus palmeri	PPOX_B10_16	gDNA Contig	2626	2825	CAGTATAGATAGAGCAAGGGCACTTGCCTTTCCTGAACATGCTCATCAGAAAGCTCAGTAGCATTGCGTTTTTTCCAGAGAAATGGTTCCAACATAATTTGCAGCTGAGAAAAAAGCAGTGGCCTTTTTATCAACAAACTGTTGCAGCTAAAAGCATCAAAATTAAATCATAACAAAAGATGCAACAAATTCTTGCAGCT
228	Amaranthus palmeri	PPOX_B10_17	gDNA Contig	2801	3000	AAGTGCCCTTGCTCTATCTATACTGATGGAAAGGATTATCGCTGAATTTACCTTCTACTGAAACATCAATAAAATACTTCATTATTAGCATCAAAATACTCCCTCCATCCTTCTGGTTTTGCTGGACTTTCCCTATGAAGGTGTTCAAGGAGTAGCTTGCTACCTTTCAAGATAGGGTAGTGGTTGCCTTCTCGCAAAAT
229	Amaranthus palmeri	PPOX_B10_17	gDNA Contig	2801	3000	ATTTTGCGAGAAGGCAACCACTACCCTATCTTGAAAGGTAGCAAGCTACTCCTTGAACACCTTCATAGGGAAAGTCCAGCAAAACCAGAAGGATGGAGGGAGTATTTTGATGCTAATAATGAAGTATTTTATTGATGTTTCAGTAGAAGGTAAATTCAGCGATAATCCTTTCCATCAGTATAGATAGAGCAAGGGCACTT
230	Amaranthus palmeri	PPOX_B10_18	gDNA Contig	2976	3175	GGTAGTGGTTGCCTTCTCGCAAAATTTCAGTCACTCGTTTTCCTCTCCTAATTCAAGCCATACTTTTTATGGTTCCTCCACACAACTCTTGCTAAATTTGAAAAGTAGCAAAGAGGAAGTGAGCAAAATCAGCAGGAGTAGGACTGATGAGTAAGAGCTTGATCAAGTATAAAGGATATGTTTCTATGTAGAATATGAAT
231	Amaranthus palmeri	PPOX_B10_18	gDNA Contig	2976	3175	ATTCATATTCTACATAGAAACATATCCTTTATACTTGATCAAGCTCTTACTCATCAGTCCTACTCCTGCTGATTTTGCTCACTTCCTCTTTGCTACTTTTCAAATTTAGCAAGAGTTGTGTGGAGGAACCATAAAAAGTATGGCTTGAATTAGGAGAGGAAAACGAGTGACTGAAATTTTGCGAGAAGGCAACCACTACC
232	Amaranthus palmeri	PPOX_B10_19	gDNA Contig	3151	3350	ATATGTTTCTATGTAGAATATGAATGCATTACCTGTAGAATTGACATAATGATTTGTCTGCAGTGTTGGCGAATTTTTTGAGCGACATTTTGGGAAAGAGGTATTGTTGCCAACTTGCCATGCTCTATTCCGGTGAATTAACAAATGTTGCGCTTCTGCTTACTATTGCTTATAATTATTGTTTTTTTGCAGTTTGTTGA
233	Amaranthus	PPOX_B10_1	gDNA	3151	335	TCAACAAACTGCAAAAAAACAATAATTA

	palmeri	9	Contig		0	TAAGCAATAGTAAGCAGAAGCGCAACA TTTGTTAATTCACCGGAATAGAGCATGG CAAGTTGGCAACAATACCTCTTTCCCAA AATGTCGCTCAAAAAATTCGCCAACACT GCAGACAAATCATTATGTCAATTCTACA GGTAATGCATTCATATTCTACATAGAAA CATAT
234	Amaranthus palmeri	PPOX_B10_20	gDNA Contig	3326	3525	TTATTGTTTTTTTGCAGTTTGTTGATTAT GTTATTGACCCTTTTGTTGCGGGTACAT GTGGTGGAGATCCTCAATCGCTATCTGT AAGTTAAATACTGTGCCTTCTTTTTTTTTC TCAAAATTTTCTGGAGGTTGTAAATAAA TTATACTCCCTCCTATTATAATCAACTGT CCTATTTCCCCTTTTGGTATATTCAAAG
235	Amaranthus palmeri	PPOX_B10_20	gDNA Contig	3326	3525	CTTTGAATATACCAAAAGGGGAAATAG GACAGTTGATTATAATAGGAGGGAGTA TAATTTATTTACAACCTCCAGAAAATTTT GAGAAAAAAAAAAGAAGGCACAGTATTT AACTTACAGATAGCGATTGAGGATCTCC ACCACATGTACCCGCAACAAAAGGGTCA ATAACATAATCAACAAACTGCAAAAAAA CAATAA
236	Amaranthus palmeri	PPOX_B10_21	gDNA Contig	3501	3700	ATTTCCCCTTTTGGTATATTCAAAGTGAG TTAAATATTGCCATCCATTAAATTTCACT TTGTCCCTTACTTATTTTTTCCCTTACTCA CTCCTCTCATGTGGTCCCTTAAACTCGGT GCATTACCAAATAGGACTATTGATTGAA ATAGGAGGGAGTATCCGATTGTGCTTCC AAAGGTAGTTCAACTCCTCTTCTTTTT
237	Amaranthus palmeri	PPOX_B10_21	gDNA Contig	3501	3700	AAAAAGAAGAGGAGTTGAACTACCTTT GGAAGCACAATCGGATACTCCCTCCTAT TTCAATCAATAGTCCTATTTGGTAATGCA CCGAGTTTAAGGGACCACATGAGAGGA GTGAGTAAGGGAAAAAATAAGTAAGGG ACAAAGTGAAATTTAATGGATGGCAATA TTTAACTCACTTTGAATATACCAAAAGG GGAAAT
238	Amaranthus palmeri	PPOX_B10_22	gDNA Contig	3676	3875	AGGTAGTTCAACTCCTCTTCTTTTTCTTTA AATTTTTGTACCATACTGTGCATTTTGAA CCTTAACTCATTTCGCCATGAAGGAGTA TTATATTTGAGAAGAACGCAGATACTAT TATCTTATACATTAGGTTTCATTATCAAT GATTGTTTGATTGTCAACTCCTCTTTTCC CTTTCATGCTCATATTGATGTTATTTC
239	Amaranthus palmeri	PPOX_B10_22	gDNA Contig	3676	3875	GAAATAACATCAATATGAGCATGAAAG GGAAAAGAGGAGTTGACAATCAAACAA TCATTGATAATGAAACCTAATGTATAAG

						ATAATAGTATCTGCGTTCTTCTCAAATAT AATACTCCTTCATGGCGAAATGAGTTAA GGTTCAAAATGCACAGTATGGTACAAAA ATTTAAAGAAAAAGAAGAGGAGTTGAA CTACCT
240	Amaranthus palmeri	PPOX_B10_23	gDNA Contig	3851	4050	TTCATGCTCATATTGATGTTATTTCTATTT GGTTATGAATTTTGTGTATTGTGTTAATG TCTTACTTTATTGTAGATGCACCATACAT TTCCCGACGTATGGAATGTTGAAAAAAG GTATGAATCTTAAAGCTTTAATTTTCTTC GAACGTTATGTTTCATAATTGATTCTTTG GGATCAATTTCCGTAAGAACGATAAT
241	Amaranthus palmeri	PPOX_B10_23	gDNA Contig	3851	4050	ATTATCGTTCTTACGGAAATTGATCCCAA AGAATCAATTATGAAACATAACGTTCGA AGAAAATTAAAGCTTTAAGATTCATACC TTTTTTCAACATTCCATACGTCGGGAAAT GTATGGTGCATCTACAATAAAGTAAGAC ATTAACACAATACACAAAATTCATAACC AAATAGAAATAACATCAATATGAGCATG AA
242	Amaranthus palmeri	PPOX_B10_24	gDNA Contig	4026	4225	GATCAATTTCCGTAAGAACGATAATTTG AAAAAATTTATGAACCTTCAAGCTTTCTT CGAATTTATATGCTTTGTAATTCATGCTT TTAGATGCTGCACCATTTTATCTATGTGT CTTAAGTTTGGTGTAATCATTTGTATAGC AAAAGAATGAATGGTCTGGTTTGAAATG GTTCATAGTGCAAAATGTGATTGTGCTT
243	Amaranthus palmeri	PPOX_B10_24	gDNA Contig	4026	4225	AAGCACAATCACATTTTGCACTATGAAC CATTTCAAACCAGACCATTCATTCTTTG CTATACAAATGATTACACCAAACTTAAG ACACATAGATAAAATGGTGCAGCATCTA AAAGCATGAATTACAAAGCATATAAATT CGAAGAAAGCTTGAAGGTTCATAAATTT TTTCAAATTATCGTTCTTACGGAAATTGA TC
244	Amaranthus palmeri	PPOX_B10_25	gDNA Contig	4201	4400	CATAGTGCAAAATGTGATTGTGCTTGCG ATTGAGGTAACATTCAAGGTGATGCGAT TGTCGTACTGTCAATTGTCGTCCTATACC ATGTGATATTTGAATAAGCCTAAAATGC CATATTGTACACCTTTAGGATGTGGACA AAATGGGTTCGGTTTCGGTACATATGAC AAATCCTTGCAATTTGATCTGTACGATAC AA
245	Amaranthus palmeri	PPOX_B10_25	gDNA Contig	4201	4400	TTGTATCGTACAGATCAAATTGCAAGGA TTTGTCATATGTACCGAAACCGAACCCA TTTTGTCCACATCCTAAAGGTGTACAATA TGGCATTTTAGGCTTATTCAAATATCACA

						TGGTATAGGACGACAATTGACAGTACG ACAATCGCATCACCTTGAATGTTACCTCA ATCGCAAGCACAATCACATTTTGCACTAT G
246	Amaranthus palmeri	PPOX_B10_26	gDNA Contig	4376	4575	TTGCAATTTGATCTGTACGATACAATGC GATTTTGTCTTTTGCTTTATGATGGTGAT TCCATATGCGATTTTAGGGCTTAGAAAT TTCCCTTGTTCAAGAACATCTCAATCAAT CTTTAACCAATTTCAACCACATTAAATTG CGTCAAAGTCGAACTTTATAATTCACTCC CAATCTCTGAGATATCCAAACTCCAAAA
247	Amaranthus palmeri	PPOX_B10_26	gDNA Contig	4376	4575	TTTTGGAGTTTGGATATCTCAGAGATTG GGAGTGAATTATAAAGTTCGACTTTGAC GCAATTTAATGTGGTTGAAATTGGTTAA AGATTGATTGAGATGTTCTTGAACAAGG GAAATTTCTAAGCCCTAAAATCGCATAT GGAATCACCATCATAAAGCAAAAGACAA AATCGCATTGTATCGTACAGATCAAATT GCAA
248	Amaranthus palmeri	PPOX_B10_27	gDNA Contig	4551	4750	TCTCTGAGATATCCAAACTCCAAAAGTTC TATTGGCTTTCATGTTTTCACAAAGTAAC GTTGGTGGGACTCCTTACCATTTTCTTTA TTATGCATTTCGTTGATGTATAATAGTAT AGATTGGTGCTCTTTTCGCTGTCCTTCTA ACATGCATAACTTCACTAGTTCTTATCGT TTTCTTTTCCTCCCTATTTTTATTTG
249	Amaranthus palmeri	PPOX_B10_27	gDNA Contig	4551	4750	CAAATAAAAATAGGGAGGAAAAGAAAA CGATAAGAACTAGTGAAGTTATGCATGT TAGAAGGACAGCGAAAAGAGCACCAAT CTATACTATTATACATCAACGAAATGCAT AATAAAGAAAATGGTAAGGAGTCCCAC CAACGTTACTTTGTGAAAACATGAAAGC CAATAGAACTTTTGGAGTTTGGATATCT CAGAGA
250	Amaranthus palmeri	PPOX_B10_28	gDNA Contig	4726	4925	TTCTTTTCCTCCCTATTTTTATTTGACTTG TAGCTATCTATGTTCACTCTTCTCGCCCA ATCCAATGTTATCTTCTACTCCATGCTTG CAAAAGCCACAAAATGCTCACTCCACCA ATAAGAGGAAATTGCCAGTCCACCACTT GCTGGAGGCATCCATGGAAGCTGAAGT ATTTTTGTCCTCTACTCATAGGATGCATA
251	Amaranthus palmeri	PPOX_B10_28	gDNA Contig	4726	4925	TATGCATCCTATGAGTAGAGGACAAAAA TACTTCAGCTTCCATGGATGCCTCCAGCA AGTGGTGGACTGGCAATTTCCTCTTATT GGTGGAGTGAGCATTTTGTGGCTTTTGC AAGCATGGAGTAGAAGATAACATTGGA TTGGGCGAGAAGAGTGAACATAGATAG

						CTACAAGTCAAATAAAAATAGGGAGGA AAAGAA
252	Amaranthus palmeri	PPOX_B10_29	gDNA Contig	4901	5100	TTGTCCTCTACTCATAGGATGCATACATG CATCGATTTACTTTCTAATACTCCTTTAAC TTGATTCCGATTAGCTCTGCTCTTAACAG GTGTTGCTAGAAAACATCAACTATTTTCA GCATAAATTAAATGTGAGCATTACCTAA TAACGTGAAAACTATCAAATCTTGTTTGT AGTGCAATATTGCGTTTTCGGTTGCG
253	Amaranthus palmeri	PPOX_B10_29	gDNA Contig	4901	5100	CGCAACCGAAAACGCAATATTGCACTAC AAACAAGATTTGATAGTTTTCACGTTATT AGGTAATGCTCACATTTAATTTATGCTGA AAATAGTTGATGTTTTCTAGCAACACCT GTTAAGAGCAGAGCTAATCGGAATCAA GTTAAAGGAGTATTAGAAAGTAAATCG ATGCATGTATGCATCCTATGAGTAGAGG ACAA
254	Amaranthus palmeri	PPOX_B14_1	gDNA Contig	1	200	ATTATTGTGTAATTCTTCCCTCACGTCTC TATTGTCTTCATTTTTTTAGAAAAATAAA TAAAGCTTGGTTTTATAGATTTTGTAACT GATATGCAATACATTTGCGTTTGCTTTCA GTTATTGATTCAAAAACAATAATGCTAA AGCCCTAATCCTAACATGTTGTGTCATCT GTTGAAACAATACTTGAAATCGCTATA
255	Amaranthus palmeri	PPOX_B14_1	gDNA Contig	1	200	TATAGCGATTTCAAGTATTGTTTCAACAG ATGACACAACATGTTAGGATTAGGGCTT TAGCATTATTGTTTTTGAATCAATAACTG AAAGCAAACGCAAATGTATTGCATATCA GTTACAAAATCTATAAAACCAAGCTTTAT TTATTTTTCTAAAAAAATGAAGACAATA GAGACGTGAGGGAAGAATTACACAATA AT
256	Amaranthus palmeri	PPOX_B14_2	gDNA Contig	176	375	TGAAACAATACTTGAAATCGCTATAAAA AGGGATTTTTGTCGGGTACTTCAGTTGT TGAAATTGATATGGTCAAGTACAATTCA TTTTAACCCAATTTGTAATGATTTACTGG CTTGGTTTCTTAGCTGTTTGTTTTAATAA AGGATTTTAGTTCGGTATTTGGTTGTTG AAAAAATTGATATGGCCAAGTAATGGTC AT
257	Amaranthus palmeri	PPOX_B14_2	gDNA Contig	176	375	ATGACCATTACTTGGCCATATCAATTTTT TCAACAACCAAATACCGAACTAAAATCC TTTATTAAAACAAACAGCTAAGAAACCA AGCCAGTAAATCATTACAAATTGGGTTA AAATGAATTGTACTTGACCATATCAATTT CAACAACTGAAGTACCCGACAAAAATCC CTTTTTATAGCGATTTCAAGTATTGTTTC

						A
258	Amaranthus palmeri	PPOX_B14_3	gDNA Contig	351	550	ATTGATATGGCCAAGTAATGGTCATATT AACACAATTGGTAATGTTTTATTAGCTCA ATAGTGTTTGTTAAGTATGTGACTCAAA TTTAATCAAGTATAACTTATTGAAGCGTA GTTCTTTTATCCATTAGGTTTGGCTCTGT GTTTGCTGGACTAATTCAATCAACATTGT TATCTAAGAAGGAAAAGGGTGGAGGAG A
259	Amaranthus palmeri	PPOX_B14_3	gDNA Contig	351	550	TCTCCTCCACCCTTTTCCTTCTTAGATAAC AATGTTGATTGAATTAGTCCAGCAAACA CAGAGCCAAACCTAATGGATAAAAGAA CTACGCTTCAATAAGTTATACTTGATTAA ATTTGAGTCACATACTTAACAAACACTAT TGAGCTAATAAAACATTACCAATTGTGT TAATATGACCATTACTTGGCCATATCAAT
260	Amaranthus palmeri	PPOX_B14_4	gDNA Contig	526	725	CTAAGAAGGAAAAGGGTGGAGGAGAA AATGCTTCTATCAAGAAGCCTCGTGTAC GCGGTTCATTTTCATTCCATGGTGGAAT GCAGGTATAACCTTATAGCCATAATTTC GCTTTTTATACCTTATACTTCCAAAATAT ATTGATGCATTTTCTTGCTACAATCACAA AAGCTTTGGGAAAAATTCTCAATTTTGTC AAA
261	Amaranthus palmeri	PPOX_B14_4	gDNA Contig	526	725	TTTGACAAAATTGAGAATTTTTCCCAAA GCTTTTGTGATTGTAGCAAGAAAATGCA TCAATATATTTTGGAAGTATAAGGTATA AAAAGCGAAATTATGGCTATAAGGTTAT ACCTGCATTCCACCATGGAATGAAAATG AACCGCGTACACGAGGCTTCTTGATAGA AGCATTTTCTCCTCCACCCTTTTCCTTCTT AG
262	Amaranthus palmeri	PPOX_B14_5	gDNA Contig	701	900	GGGAAAAATTCTCAATTTTGTCAAATCT ACTAAAATAATTCATTTTGGAACCAAGG TTTTCTATTTCAGAATACATGGATGAAG ACATGCAGTAAGTATGGATAAAATAATC TAGATGTAAAAGGTTTTTAGTCTATTAA GCAAGAATATTATAATTCAGAGTCGTTT CATCAATAAAGTGTTGTTTAAGTGCAGC AATT
263	Amaranthus palmeri	PPOX_B14_5	gDNA Contig	701	900	AATTGCTGCACTTAAACAACACTTTATTG ATGAAACGACTCTGAATTATAATATTCTT GCTTAATAGACTAAAAACCTTTTACATCT AGATTATTTTATCCATACTTACTGCATGT CTTCATCCATGTATTCTGAAATAGAAAAC CTTGGTTCCAAAATGAATTATTTTAGTAG ATTTGACAAAATTGAGAATTTTTCCC

264	Amaranthus palmeri	PPOX_B14_6	gDNA Contig	876	1075	AAAGTGTTGTTTAAGTGCAGCAATTACA TTCTGCTTCAAGCAAAGGCTATCTTAAG ACTTAAGAGGCTCCCAAAACATGAGGA GGTATGAGACCTTAGAGGCCAAAGAAA TAAAATTTGATGAGGAGACTTGGTGAG ATACCTTGCTTCCAAAAATGATATATTTT TCCCCTTAGACACCTCAGATTATGACATT TATAA
265	Amaranthus palmeri	PPOX_B14_6	gDNA Contig	876	1075	TTATAAATGTCATAATCTGAGGTGTCTA AGGGGAAAAATATATCATTTTTGGAAGC AAGGTATCTCACCAAGTCTCCTCATCAA ATTTTATTTCTTTGGCCTCTAAGGTCTCA TACCTCCTCATGTTTTGGGAGCCTCTTAA GTCTTAAGATAGCCTTTGCTTGAAGCAG AATGTAATTGCTGCACTTAAACAACACTT T
266	Amaranthus palmeri	PPOX_B14_7	gDNA Contig	1051	1250	ACACCTCAGATTATGACATTTATAAGGT GTCCCTGCGTATTCGACGAGATTTTACG ACCTATACTCTAAAGTCTAAATTGAGTG AGAAATGTGTATATGTGTAAGAAAGGA AAGTTAGTACCATGAATTCCATGTCTAC GACCTCAAAGTGTTCATACCATTGAAAT TAGTGAGCTTACAATTGTTAAGAAAGCA TCAAC
267	Amaranthus palmeri	PPOX_B14_7	gDNA Contig	1051	1250	GTTGATGCTTTCTTAACAATTGTAAGCTC ACTAATTTCAATGGTATGAACACTTTGA GGTCGTAGACATGGAATTCATGGTACTA ACTTTCCTTTCTTACACATATACACATTTC TCACTCAATTTAGACTTTAGAGTATAGGT CGTAAAATCTCGTCGAATACGCAGGGAC ACCTTATAAATGTCATAATCTGAGGTGT
268	Amaranthus palmeri	PPOX_B14_8	gDNA Contig	1226	1425	TTACAATTGTTAAGAAAGCATCAACTATT CATAATTGATCATTGATGAAGTGTGTAA TAGACATGCTAGGTGAAATTCGAAAGG GATCTACTCTGTCTTTGAGTTTACAATTT GCTTCTAGTTTTTAGCTATTTATAGGTGC TATCAAAGGGTTGAATATTGTTTTTTCTG AACATTGTTGCCGAGTTGTGAAGGGAG AA
269	Amaranthus palmeri	PPOX_B14_8	gDNA Contig	1226	1425	TTCTCCCTTCACAACTCGGCAACAATGTT CAGAAAAAACAATATTCAACCCTTTGAT AGCACCTATAAATAGCTAAAAACTAGAA GCAAATTGTAAACTCAAAGACAGAGTA GATCCCTTTCGAATTTCACCTAGCATGTC TATTACACACTTCATCAATGATCAATTAT GAATAGTTGATGCTTTCTTAACAATTGTA A

270	Amaranthus palmeri	PPOX_B14_9	gDNA Contig	1401	1600	TTGTTGCCGAGTTGTGAAGGGAGAATG ATGGTAGATTTCTCTTAATGAGAACATTC TCTTCATAAAGAGTTCGATAGCGCAAAA ACGAAAGCTTATTGCCAAAAGTGGCTGG GGTAGATGAAAGAGAACTGCAATTGAT TTTGCTAGGCTTGACTTTGAGTAAAGAA TTCATGGCATAAGGTAGAAAAATAGGA GATGGC
271	Amaranthus palmeri	PPOX_B14_9	gDNA Contig	1401	1600	GCCATCTCCTATTTTTCTACCTTATGCCAT GAATTCTTTACTCAAAGTCAAGCCTAGC AAAATCAATTGCAGTTCTCTTTCATCTAC CCCAGCCACTTTTGGCAATAAGCTTTCGT TTTTGCGCTATCGAACTCTTTATGAAGAG AATGTTCTCATTAAGAGAAATCTACCATC ATTCTCCCTTCACAACTCGGCAACAA
272	Amaranthus palmeri	PPOX_B14_10	gDNA Contig	1576	1775	ATAAGGTAGAAAAATAGGAGATGGCTG AATGATATCGAAACCTTTTGATTCTTTTT GTTTTGTTTGCAATGCACAGAAAGGCAG GACGGGAAAGTGTGATTAAATGGATGG GAAAAATTGCTAGAATAGAAAAGAAGA AAGATGTAGCACTCACGTGAGGAAATTA CCCAATATCTGAATGGAGCTCACACTCC TCTCTT
273	Amaranthus palmeri	PPOX_B14_10	gDNA Contig	1576	1775	AAGAGAGGAGTGTGAGCTCCATTCAGA TATTGGGTAATTTCCTCACGTGAGTGCT ACATCTTTCTTCTTTTCTATTCTAGCAATT TTTCCCATCCATTTAATCACACTTTCCCGT CCTGCCTTTCTGTGCATTGCAAACAAAAC AAAAAGAATCAAAAGGTTTCGATATCAT TCAGCCATCTCCTATTTTTCTACCTTAT
274	Amaranthus palmeri	PPOX_B14_11	gDNA Contig	1751	1950	TGAATGGAGCTCACACTCCTCTCTTCCTC TACTAATATACAACCTGCCTAATTTGCAC AATAGCTGCTAATATCATAGTAGTATGA GATAATGGCTGGATGTCTCAATTGTTAC CCTAGTTTTGACAACTATTTTACGTTGGC ATTTCGGTGGCCTGGGGCCGTGGACTG AGTCACCTTAAAAATTCATCTGTGATATA G
275	Amaranthus palmeri	PPOX_B14_11	gDNA Contig	1751	1950	CTATATCACAGATGAATTTTTAAGGTGA CTCAGTCCACGGCCCCAGGCCACCGAAA TGCCAACGTAAAATAGTTGTCAAAACTA GGGTAACAATTGAGACATCCAGCCATTA TCTCATACTACTATGATATTAGCAGCTAT TGTGCAAATTAGGCAGGTTGTATATTAG TAGAGGAAGAGAGGAGTGTGAGCTCCA TTCA
276	Amaranthus	PPOX_B14_1	gDNA	1926	212	CCTTAAAAATTCATCTGTGATATAGTTTA

	palmeri	2	Contig		5	GAATCAATTTTGAAAATTTAGGCAGGCC TAAATTTTGATAAAGATAGCATGATCTA AAGAATGCAGCTCTAATAAATTTACATA AAATTTGATATTAAGTAGTCTCTGTCTAG GCCTGCCTTCCGAGCTTGTATATTAACTG AGCGCATGTTTATTTGAGGAATAGCATA G
277	Amaranthus palmeri	PPOX_B14_1 2	gDNA Contig	1926	212 5	CTATGCTATTCCTCAAATAAACATGCGCT CAGTTAATATACAAGCTCGGAAGGCAG GCCTAGACAGAGACTACTTAATATCAAA TTTTATGTAAATTTATTAGAGCTGCATTC TTTAGATCATGCTATCTTTATCAAAATTT AGGCCTGCCTAAATTTTCAAAATTGATTC TAAACTATATCACAGATGAATTTTTAAG G
278	Amaranthus palmeri	PPOX_B14_1 3	gDNA Contig	2101	230 0	CATGTTTATTTGAGGAATAGCATAGGAG TCATTTTTTTGCATACTAATTAGCATGTC AATTTTATTCCATTTGCTGAGTACTGTAT GTTCTGCAGACACTTGTTGACACAATGT GCAAACAGCTTGGTGAAGACGAACTCA AACTCCAGTGTGAGGTGCTGTCCTTGTC ATACAACCAGAAGGGGATCCCTTCATTA GGG
279	Amaranthus palmeri	PPOX_B14_1 3	gDNA Contig	2101	230 0	CCCTAATGAAGGGATCCCCTTCTGGTTG TATGACAAGGACAGCACCTCACACTGGA GTTTGAGTTCGTCTTCACCAAGCTGTTTG CACATTGTGTCAACAAGTGTCTGCAGAA CATACAGTACTCAGCAAATGGAATAAAA TTGACATGCTAATTAGTATGCAAAAAAA TGACTCCTATGCTATTCCTCAAATAAACA TG
280	Amaranthus palmeri	PPOX_B7_1	cDNA Contig	1	200	CATGTGGTGGAGATCCTCAATCGCTATC TATGCACCATACATTTCCCGACGTATGG AATGTTGAAAAAAGGTTTGGCTCTGTGT TTGCTGGACTAATTCAATCAACATTGTTA TCTAAGAAGGAAAAGGGTGGAGGGAA AATGCTTCTATCAAGAAGCCTCGTGTAC GCGGTTCATTTTCATTCCATGGTGGAAT GCAGA
281	Amaranthus palmeri	PPOX_B7_1	cDNA Contig	1	200	TCTGCATTCCACCATGGAATGAAAATGA ACCGCGTACACGAGGCTTCTTGATAGAA GCATTTTCCCTCCACCCTTTTCCTTCTTAG ATAACAATGTTGATTGAATTAGTCCAGC AAACACAGAGCCAAACCTTTTTTCAACA TTCCATACGTCGGGAAATGTATGGTGCA TAGATAGCGATTGAGGATCTCCACCACA TG

282	Amaranthus palmeri	PPOX_B7_2	cDNA Contig	176	375	TTTTCATTCCATGGTGGAATGCAGACAC TTGTTGACACAATGTGCAAACAGCTTGG TGAAGATGAACTCAAGCTCCAGTGTGAG GTGCTGTCCTTGTCATACAACCAGAAGG GGATCCCTTCATTAGGGAATTGGTCAGT CTCTTCTATGTCAAATAATACCAGTGAA GATCAATCTTATGATGCTGTGGTTGTCA CTGC
283	Amaranthus palmeri	PPOX_B7_2	cDNA Contig	176	375	GCAGTGACAACCACAGCATCATAAGATT GATCTTCACTGGTATTATTTGACATAGAA GAGACTGACCAATTCCCTAATGAAGGGA TCCCCTTCTGGTTGTATGACAAGGACAG CACCTCACACTGGAGCTTGAGTTCATCTT CACCAAGCTGTTTGCACATTGTGTCAAC AAGTGTCTGCATTCCACCATGGAATGAA AA
284	Amaranthus palmeri	PPOX_B7_3	cDNA Contig	351	550	CTTATGATGCTGTGGTTGTCACTGCTCCA ATTCGCAATGTCAAAGAAATGAAGATTA TGAAATTTGGAAATCCATTTTCACTTGAC TTTATTCCAGAGGTGACTTACGTACCCCT TTCCGTTATGATTACTGCATTCAAGAAG GATAAAGTGAAGAGACCTCTCGAGGGC TTCGGAGTTCTTATCCCGTCTAAAGAGC AA
285	Amaranthus palmeri	PPOX_B7_3	cDNA Contig	351	550	TTGCTCTTTAGACGGGATAAGAACTCCG AAGCCCTCGAGAGGTCTCTTCACTTTATC CTTCTTGAATGCAGTAATCATAACGGAA AGGGGTACGTAAGTCACCTCTGGAATAA AGTCAAGTGAAAATGGATTTCCAAATTT CATAATCTTCATTTCTTTGACATTGCGAA TTGGAGCAGTGACAACCACAGCATCATA AG
286	Amaranthus palmeri	PPOX_B7_4	cDNA Contig	526	725	AGTTCTTATCCCGTCTAAAGAGCAACAT AATGGACTGAAGACTCTTGGTACTTTAT TTTCGTCTATGATGTTTCCTGATCGTGCT CCATCTGATATGTGTCTTTTTACCACATT TGTCGGAGGAAGCAGAAATAGAAAACT TGCAAACGCTTCAACGGATGAATTGAAG CAAATAGTTTCTTCTGACCTTCAGCAGCT GT
287	Amaranthus palmeri	PPOX_B7_4	cDNA Contig	526	725	ACAGCTGCTGAAGGTCAGAAGAAACTA TTTGCTTCAATTCATCCGTTGAAGCGTTT GCAAGTTTTCTATTTCTGCTTCCTCCGAC AAATGTGGTAAAAAGACACATATCAGAT GGAGCACGATCAGGAAACATCATAGAC GAAAATAAAGTACCAAGAGTCTTCAGTC CATTATGTTGCTCTTTAGACGGGATAAG

						AACT
288	Amaranthus palmeri	PPOX_B7_5	cDNA Contig	701	900	GTTTCTTCTGACCTTCAGCAGCTGTTGG GCACTGAGGACGAACCTTCATTTGTCAA TCATCTCTTTTGGAGCAATGCATTCCCGT TGTATGGGCACAATTACGATTCTGTTTTG ACAGCAATAGACAAGATGGAAAAGGAT CTTCCTGGATTTTTTATGCAGGTAACCAT AAGGGTGGACTTTCAGTAGGAAAAGCG ATG
289	Amaranthus palmeri	PPOX_B7_5	cDNA Contig	701	900	CATCGCTTTTCCTACTGAAAGTCCACCCT TATGGTTACCTGCATAAAAAATCCAGGA AGATCCTTTTCCATCTTGTCTATTGCTGT CAAAACAGAATCGTAATTGTGCCCATAC AACGGGAATGCATTGCTCCAAAAGAGA TGATTGACAAATGAAGGTTCGTCCTCAG TGCCCAACAGCTGCTGAAGGTCAGAAG AAAC
290	Amaranthus palmeri	PPOX_B8_1	cDNA Contig	1	200	GGGGAGCGGGTTGCTGGATAACCAGAG AGAGTGCAAGAGAGATGAGTGCCATGG CGTTATCGAGCAGCATTCTACAATGTCC GCCGCACTCCGACATCTCTTTCCGCTTTT CTGCTTATACACCAACCCGCTCCCCCATC TTCTTCGGAAGACCTCGAAAATTATCAT ATATCCATTGTTCCACAAGCTCAAGCTCA ACT
291	Amaranthus palmeri	PPOX_B8_1	cDNA Contig	1	200	AGTTGAGCTTGAGCTTGTGGAACAATGG ATATATGATAATTTTCGAGGTCTTCCGAA GAAGATGGGGGAGCGGGTTGGTGTATA AGCAGAAAAGCGGAAAGAGATGTCGGA GTGCGGCGGACATTGTAGAATGCTGCTC GATAACGCCATGGCACTCATCTCTCTTGC ACTCTCTCTGGTTATCCAGCAACCCGCTC CCC
292	Amaranthus palmeri	PPOX_B9_1	gDNA Contig	1	200	GGTGTTTATTTGGGCATGGCCTTATGTG TGATGTTGGTAAATTTTGTGGCTTCGTCC ACTAATCTGATGTATCGGATCTGTTAAA GGGAGCCCTCTCATCCTATGCTTATCAAT GACTTTTTCATATGCCTATCAAACAGATC AGATTGGATCGGGTTCGAGTTCAGGTCA TATATAAACATGTCAGCAAACCCTTGAC C
293	Amaranthus palmeri	PPOX_B9_1	gDNA Contig	1	200	GGTCAAGGGTTTGCTGACATGTTTATAT ATGACCTGAACTCGAACCCGATCCAATC TGATCTGTTTGATAGGCATATGAAAAAG TCATTGATAAGCATAGGATGAGAGGGC TCCCTTTAACAGATCCGATACATCAGATT AGTGGACGAAGCCACAAAATTTACCAAC

						ATCACACATAAGGCCATGCCCAAATAAA CACC
294	Amaranthus palmeri	PPOX_B9_2	gDNA Contig	176	375	TAAACATGTCAGCAAACCCTTGACCCAT ACCCAACCCATTTAGTTAATTGGCTTGAA AATCACAACCTTAATTCGACCAGCGACA GATCAGGTTGACCTGATTTCGACCCACT TAACCCATTTATAATTTTTTTTTCGATTTA AGTTTTTTAACATTGATTAAATCTAATTT TTTAGGCTTTAATTTTAATTTTATGTTT
295	Amaranthus palmeri	PPOX_B9_2	gDNA Contig	176	375	AAACATAAAATTAAAATTAAAGCCTAAA AAATTAGATTTAATCAATGTTAAAAAAC TTAAATCGAAAAAAAAATTATAAATGGG TTAAGTGGGTCGAAATCAGGTCAACCTG ATCTGTCGCTGGTCGAATTAAGGTTGTG ATTTTCAAGCCAATTAACTAAATGGGTT GGGTATGGGTCAAGGGTTTGCTGACAT GTTTA
296	Amaranthus palmeri	PPOX_B9_3	gDNA Contig	351	550	AGGCTTTAATTTTAATTTTATGTTTTTTTG TTTAATTTGTATTTACTATGAAAAATAAG AAACTATTATATGAACTGAGTTTAGCTTA CACTTATTAATTTAACTCGAAATTAACAC ATTTAATTAAATGGTTATATAGGGTTTTT TAGTTTTAAAATTTCAACCTGAACCTAAT CTATTTAATAAAAAGATCAGATCTG
297	Amaranthus palmeri	PPOX_B9_3	gDNA Contig	351	550	CAGATCTGATCTTTTTATTAAATAGATTA GGTTCAGGTTGAAATTTTAAAACTAAAA AACCCTATATAACCATTTAATTAAATGTG TTAATTTCGAGTTAAATTAATAAGTGTAA GCTAAACTCAGTTCATATAATAGTTTCTT ATTTTTCATAGTAAATACAAATTAAACAA AAAAACATAAAATTAAAATTAAAGCCT
298	Amaranthus palmeri	PPOX_B9_4	gDNA Contig	526	725	CTATTTAATAAAAAGATCAGATCTGATC AACCCATATAATTAATTGGGTCAAAATC TCAACTCAAACCCATTTATTTCGAATTAA ATTCAGATCAAATTAGCAGGTCGGATCA ACTAGCGCTAATTTTTCCTCTCAAGTTTT TTCATATGATGCCCCTTGTTTTCTTTGAA TAAAATTCACCAATTTAAAATCCCTGCCC
299	Amaranthus palmeri	PPOX_B9_4	gDNA Contig	526	725	GGGCAGGGATTTTAAATTGGTGAATTTT ATTCAAAGAAAACAAGGGGCATCATAT GAAAAAACTTGAGAGGAAAAATTAGCG CTAGTTGATCCGACCTGCTAATTTGATCT GAATTTAATTCGAAATAAATGGGTTTGA GTTGAGATTTTGACCCAATTAATTATATG GGTTGATCAGATCTGATCTTTTTATTAAA TAG
300	Amaranthus	PPOX_B9_5	gDNA	701	900	ATTCACCAATTTAAAATCCCTGCCCTTGA

	palmeri		Contig			TCCGTTGGTATTGGTATTTGGTAAAGCA CATATGGTAAATTCTACTCCATTGTTATC TGTAGTTTTGGTTCTAAACCCCAAACAA ATCCTACTCCTAGCACCACTAATCCTCAT TACTTTCTGTTTGCTGTCTTTCTCTACATT CCTACTAAATTAAGACCTAGATGCAGT
301	Amaranthus palmeri	PPOX_B9_5	gDNA Contig	701	900	ACTGCATCTAGGTCTTAATTTAGTAGGA ATGTAGAGAAAGACAGCAAACAGAAAG TAATGAGGATTAGTGGTGCTAGGAGTA GGATTTGTTTGGGGTTTAGAACCAAAAC TACAGATAACAATGGAGTAGAATTTACC ATATGTGCTTTACCAAATACCAATACCAA CGGATCAAGGGCAGGGATTTTAAATTG GTGAAT
302	Amaranthus palmeri	PPOX_B9_6	gDNA Contig	876	1075	TACTAAATTAAGACCTAGATGCAGTGTT ATTCTGTTCGAGGTTGCCGAAAACGGTA CAATAGTTGCCTAATTTGCAATTCATGTT TGTTCTTGCGTTTTCTACATTGTTTACTCT ATTGGAACAAAGGTTGAACTTTCAGCCT TTCAGGGAGTATTTTGATTTTTCTGTCAA ATTACCTTGCCAGATTTATTTGGCTATT
303	Amaranthus palmeri	PPOX_B9_6	gDNA Contig	876	1075	AATAGCCAAATAAATCTGGCAAGGTAAT TTGACAGAAAAATCAAAATACTCCCTGA AAGGCTGAAAGTTCAACCTTTGTTCCAA TAGAGTAAACAATGTAGAAAACGCAAG AACAAACATGAATTGCAAATTAGGCAAC TATTGTACCGTTTTCGGCAACCTCGAACA GAATAACACTGCATCTAGGTCTTAATTTA GTA
304	Amaranthus palmeri	PPOX_B9_7	gDNA Contig	1051	1250	ACCTTGCCAGATTTATTTGGCTATTTTGA TTGTGTGTATTTCTTTGTCCCTTGTTTCCA TGGGGCTAAACTCCTTTTGGTTAATCTTA AACATTTCTTCTAATTTTGAATTGCAGTG GTATGAAGTGTTGTTTAATATACAATCA ATTTTTCTGAACTGGGTTAATGAAGAGA AGCATTGTAGACATGAGGAATGTGTTC
305	Amaranthus palmeri	PPOX_B9_7	gDNA Contig	1051	1250	GAACACATTCCTCATGTCTACAATGCTTC TCTTCATTAACCCAGTTCAGAAAAATTGA TTGTATATTAAACAACACTTCATACCACT GCAATTCAAAATTAGAAGAAATGTTTAA GATTAACCAAAAGGAGTTTAGCCCCATG GAAACAAGGGACAAAGAAATACACACA ATCAAAATAGCCAAATAAATCTGGCAAG GT
306	Amaranthus palmeri	PPOX_B9_8	gDNA Contig	1226	1425	CATTGTAGACATGAGGAATGTGTTCAAG CATCTCAAAACAACCAAATTAATCCCAA ATGGGATCTTCAACTGTAATAGAGGTAA

						ATCACATATATTCTCATTTAATGGTTATT GTTTTATTTTAAGGATGTTATTATGTTGT TATCAATGATAGAAATAAGAGAAGCTTG AGCATTCAAATGTATCTATCACTCACTGG T
307	Amaranthus palmeri	PPOX_B9_8	gDNA Contig	1226	1425	ACCAGTGAGTGATAGATACATTTGAATG CTCAAGCTTCTCTTATTTCTATCATTGATA ACAACATAATAACATCCTTAAAATAAAA CAATAACCATTAAATGAGAATATATGTG ATTTACCTCTATTACAGTTGAAGATCCCA TTTGGGATTAATTTGGTTGTTTTGAGAT GCTTGAACACATTCCTCATGTCTACAATG
308	Amaranthus palmeri	PPOX_B9_9	gDNA Contig	1401	1600	TCAAATGTATCTATCACTCACTGGTTGTG GACATCTAAAATATGGACCAAGAGTTTT CTTCATTTCTTGTACCAGAATTTGCAAAT GTATGATTAAAGTTTAGGTTGGAGTTGC AATAAAATTTCATTACCCCGACGCTATTA AGTGGCTCACACTGAGGCGGGGTTTGA GGGTCGGATGGTGCAACCTTCAGGAGA GGT
309	Amaranthus palmeri	PPOX_B9_9	gDNA Contig	1401	1600	ACCTCTCCTGAAGGTTGCACCATCCGAC CCTCAAACCCCGCCTCAGTGTGAGCCAC TTAATAGCGTCGGGGTAATGAAATTTTA TTGCAACTCCAACCTAAACTTTAATCATA CATTTGCAAATTCTGGTACAAGAAATGA AGAAAACTCTTGGTCCATATTTTAGATGT CCACAACCAGTGAGTGATAGATACATTT GA
310	Amaranthus palmeri	PPOX_B9_10	gDNA Contig	1576	1775	GGATGGTGCAACCTTCAGGAGAGGTTCT AAGCATTTTCAACATGTTCAACCGCAGA GGGTCCCGTAAAATTGGAGGCTTCAATA TTAAATTATGTAGTATGTGTTAAGTGTTT AAAGATATAAAAATGTTAATGAATACAT AATTTTTAAAATTGCACAGGGCTTTCAA AGAAATTTTTGATTTTGCTCCGCCCATGG CA
311	Amaranthus palmeri	PPOX_B9_10	gDNA Contig	1576	1775	TGCCATGGGCGGAGCAAAATCAAAAAT TTCTTTGAAAGCCCTGTGCAATTTTAAAA ATTATGTATTCATTAACATTTTTATATCTT TAAACACTTAACACATACTACATAATTTA ATATTGAAGCCTCCAATTTTACGGGACC CTCTGCGGTTGAACATGTTGAAAATGCT TAGAACCTCTCCTGAAGGTTGCACCATC C
312	Amaranthus palmeri	PPOX_B9_11	gDNA Contig	1751	1950	TTTTGATTTTGCTCCGCCCATGGCAACCT TTGGCAAATCTGGATAGAATTAGAGAAA TTTACTTTTATGTATGTATAATCTGATGA

						ATGAATGAATGAACAATGAAGTTCATTT CTGAGTCAATGACCTATATACTATCGAG GTTTCGTTAAATAGGATATATAAATAAA ATTAGAGACATCTTTTATCCCTAATGTTG T
313	Amaranthus palmeri	PPOX_B9_11	gDNA Contig	1751	1950	ACAACATTAGGGATAAAAGATGTCTCTA ATTTTATTTATATATCCTATTTAACGAAA CCTCGATAGTATATAGGTCATTGACTCA GAAATGAACTTCATTGTTCATTCATTCAT TCATCAGATTATACATACATAAAAGTAA ATTTCTCTAATTCTATCCAGATTTGCCAA AGGTTGCCATGGGCGGAGCAAAATCAA AA
314	Amaranthus palmeri	PPOX_B9_12	gDNA Contig	1926	2125	AGACATCTTTTATCCCTAATGTTGTCTGT TTTCTTTTCTGGGCGAGACTGTTTTTGGA GAAAAACGTTATGTTGAATGCTTGATTT ACTCAGAACTGATGCAAACAGATGGATA AAAAATGGTGTTTTCCTAGTGTTTATGTT TCATAAAAGGATTTCAAATTCCAATCGT ATGAAGTTTGAAATACTGCTTTTTGTTTT
315	Amaranthus palmeri	PPOX_B9_12	gDNA Contig	1926	2125	AAAACAAAAAGCAGTATTTCAAACTTCA TACGATTGGAATTTGAAATCCTTTTATGA AACATAAACACTAGGAAAACACCATTTT TTATCCATCTGTTTGCATCAGTTCTGAGT AAATCAAGCATTCAACATAACGTTTTTCT CCAAAAACAGTCTCGCCCAGAAAAGAAA ACAGACAACATTAGGGATAAAAGATGT CT
316	Amaranthus palmeri	PPOX_B9_13	gDNA Contig	2101	2300	AGTTTGAAATACTGCTTTTTGTTTTTGTA GCTTCGTGTTTTGCTTTCCTTCACTCTTCA CCAGGGAACGTTGTTGAAGTTTGTTCCA AGAAGCAAGAAGTCGTAATTGCAATCG GGAGCAATGTTGGTGACAGATTAGAAA ATTTCAACCAAGCTCTGCAACAAATGAA GAAATTAGGCATAGACATCACAAGGCAT GGT
317	Amaranthus palmeri	PPOX_B9_13	gDNA Contig	2101	2300	ACCATGCCTTGTGATGTCTATGCCTAATT TCTTCATTTGTTGCAGAGCTTGGTTGAAA TTTTCTAATCTGTCACCAACATTGCTCCC GATTGCAATTACGACTTCTTGCTTCTTGG AACAAACTTCAACAACGTTCCCTGGTGA AGAGTGAAGGAAAGCAAAACACGAAGC TACAAAAACAAAAAGCAGTATTTCAAAC T
318	Amaranthus palmeri	PPOX_B9_14	gDNA Contig	2276	2475	AGGCATAGACATCACAAGGCATGGTTGT TTATATGAGACGGAACCTGCATACGTGA CTGATCAACCGAAGTTTCTTAACTCTGCT

						TTAAGAGGCTTTACAAGACTTGGACCTC ATGAATTATTAGGGGTATTGAAGAAAAT TGAGAAGGATATGGGTAGAACCAAGGG AATAAGGTATGGTCCTAGGCCAATTGAC TTGG
319	Amaranthus palmeri	PPOX_B9_14	gDNA Contig	2276	2475	CCAAGTCAATTGGCCTAGGACCATACCT TATTCCCTTGGTTCTACCCATATCCTTCTC AATTTTCTTCAATACCCCTAATAATTCAT GAGGTCCAAGTCTTGTAAAGCCTCTTAA AGCAGAGTTAAGAAACTTCGGTTGATCA GTCACGTATGCAGGTTCCGTCTCATATA AACAACCATGCCTTGTGATGTCTATGCCT
320	Amaranthus palmeri	PPOX_B9_15	gDNA Contig	2451	2650	TATGGTCCTAGGCCAATTGACTTGGACA TACTATTTTATGGGAAGTTTAGGGTGAG CTCTGAGAGCCTCACTATCCCCCATGAA AGGATATGGGAAAGACCATTTGTGATG GCACCATTGATTGATTGTATTGGGTCTG ATGTAGAAAATGACACTATTTGTACGTG GCATTCATTATCAAATTTTTCGGGTGGA ATCTT
321	Amaranthus palmeri	PPOX_B9_15	gDNA Contig	2451	2650	AAGATTCCACCCGAAAAATTTGATAATG AATGCCACGTACAAATAGTGTCATTTTCT ACATCAGACCCAATACAATCAATCAATG GTGCCATCACAAATGGTCTTTCCCATATC CTTTCATGGGGGATAGTGAGGCTCTCAG AGCTCACCCTAAACTTCCCATAAAATAGT ATGTCCAAGTCAATTGGCCTAGGACCAT A
322	Amaranthus palmeri	PPOX_B9_16	gDNA Contig	2626	2825	TATCAAATTTTTCGGGTGGAATCTTTGAA GCATGGGGTAAACTCGGTGGAAGCTCC CTAATCGGGAAGGATGGAATGAAAAGG GTTTTGCCCGTTGGAAATCTCTTATGGG ATTGGTCTCATAAAACCTCTGTTATGGG AGTCTTGAACTTGACTCCTGATAGCTTTA GTGATGGCGGAAGTTTTCAATCTGTCAA TACT
323	Amaranthus palmeri	PPOX_B9_16	gDNA Contig	2626	2825	AGTATTGACAGATTGAAAACTTCCGCCA TCACTAAAGCTATCAGGAGTCAAGTTCA AGACTCCCATAACAGAGGTTTTATGAGA CCAATCCCATAAGAGATTTCCAACGGGC AAAACCCTTTTCATTCCATCCTTCCCGAT TAGGGAGCTTCCACCGAGTTTACCCCAT GCTTCAAAGATTCCACCCGAAAAATTTG ATA
324	Amaranthus palmeri	PPOX_B9_17	gDNA Contig	2801	3000	CGGAAGTTTTCAATCTGTCAATACTGCG GTTGCTAAGGTTCGTCAGATGATCTCAG ATGGGGCAGATATAATTGACATCGGGG

						CACAATCAACCAGACCCATGGCAACTAG AATTTCGGCTGAAGAAGAGCTAGCAAG AGTAGTACCTGTATTAGAAGCTGTCAAG GATTTGATCGAGGAAGAAGGAAGAATC TTGTCAG
325	Amaranthus palmeri	PPOX_B9_17	gDNA Contig	2801	3000	CTGACAAGATTCTTCCTTCTTCCTCGATC AAATCCTTGACAGCTTCTAATACAGGTA CTACTCTTGCTAGCTCTTCTTCAGCCGAA ATTCTAGTTGCCATGGGTCTGGTTGATT GTGCCCCGATGTCAATTATATCTGCCCCA TCTGAGATCATCTGACGAACCTTAGCAA CCGCAGTATTGACAGATTGAAAACTTCC G
326	Amaranthus palmeri	PPOX_B9_18	gDNA Contig	2976	3175	GAGGAAGAAGGAAGAATCTTGTCAGTG GATACGTTTTATTCTAAAGTTGCTTTGGA GGCCGTCAAGAAGGGGGCACACATTGT GAATGATGTCTCTAGTGGTAAACTCGAT TCCGAGATGTTTAATGTTGTTGCGGACC TTAAAGTTCCTTATATAGCAATGCACATG CGAGGAGATCCGACTTCAATGCAAAACT CTGA
327	Amaranthus palmeri	PPOX_B9_18	gDNA Contig	2976	3175	TCAGAGTTTTGCATTGAAGTCGGATCTC CTCGCATGTGCATTGCTATATAAGGAAC TTTAAGGTCCGCAACAACATTAAACATC TCGGAATCGAGTTTACCACTAGAGACAT CATTCACAATGTGTGCCCCCTTCTTGACG GCCTCCAAAGCAACTTTAGAATAAAACG TATCCACTGACAAGATTCTTCCTTCTTCC TC
328	Amaranthus palmeri	PPOX_B9_19	gDNA Contig	3151	3350	ATCCGACTTCAATGCAAAACTCTGAGAA CTTGACCTACAATGATGTTTGTAAGCAA GTGGCTTCGGAGTTGAGTTCTAGGGTCA TAGATGCAGAATTATCGGGAATTCCTGC TTGGAGGATAGTTATTGATCCCGGCATC GGATTTTCTAAGAATACGAATCAAAATT TGGAAATTCTTAGTGGTTTACAAAAGAT ACGG
329	Amaranthus palmeri	PPOX_B9_19	gDNA Contig	3151	3350	CCGTATCTTTTGTAAACCACTAAGAATTT CCAAATTTTGATTCGTATTCTTAGAAAAT CCGATGCCGGGATCAATAACTATCCTCC AAGCAGGAATTCCCGATAATTCTGCATC TATGACCCTAGAACTCAACTCCGAAGCC ACTTGCTTACAAACATCATTGTAGGTCA AGTTCTCAGAGTTTTGCATTGAAGTCGG AT
330	Amaranthus palmeri	PPOX_B9_20	gDNA Contig	3326	3525	TCTTAGTGGTTTACAAAAGATACGGGAA GAGATAGCTAAGAAGAGTTTGGCGGTG

						GCTCATTGCCCCTTGCTAATTGGACCTTC AAGAAAGAGGTTTCTGGGCGAGATTTG TGAGCGCCCTGTAGCAGCTGACAGGGA TCCTGCTACCATTGCTTCTATAACTGCTG GAGTTTTAGGTGGTGCAAACATTGTAAG AGTAC
331	Amaranthus palmeri	PPOX_B9_20	gDNA Contig	3326	3525	GTACTCTTACAATGTTTGCACCACCTAAA ACTCCAGCAGTTATAGAAGCAATGGTAG CAGGATCCCTGTCAGCTGCTACAGGGCG CTCACAAATCTCGCCCAGAAACCTCTTTC TTGAAGGTCCAATTAGCAAGGGGCAAT GAGCCACCGCCAAACTCTTCTTAGCTATC TCTTCCCGTATCTTTTGTAAACCACTAAG A
332	Amaranthus palmeri	PPOX_B9_21	gDNA Contig	3501	3700	GGTGGTGCAAACATTGTAAGAGTACATA ATGTTAGGGATAACCTTGATGCTGTCAA GTTATGTGATGCCATACTCGGAAAAACT GATTAACTGCTTGTTTGTACCACCTTGTG AATGATGTCTAGTGGAAGGTTCGATTGG GATTATGATGAAGTCCGTTAGTTTGCTC GAAAGAAGAGCTTTAGCCCGTAAGGTT ATAG
333	Amaranthus palmeri	PPOX_B9_21	gDNA Contig	3501	3700	CTATAACCTTACGGGCTAAAGCTCTTCTT TCGAGCAAACTAACGGACTTCATCATAA TCCCAATCGAACCTTCCACTAGACATCAT TCACAAGGTGGTACAAACAAGCAGTTAA TCAGTTTTTCCGAGTATGGCATCACATAA CTTGACAGCATCAAGGTTATCCCTAACA TTATGTACTCTTACAATGTTTGCACCACC
334	Amaranthus palmeri	PPOX_B9_22	gDNA Contig	3676	3875	AGAGCTTTAGCCCGTAAGGTTATAGTTC TTACAGATGTAGAATCATTGGCTATTTG CCTATTTCTGCTTAGAAGATCATAGCATT GATCCAGACTTTGGATTCCATGTAGAAT TATGTTGCGACTCATGGTCGAATTGGCC CTTTGAGGAATTGTTGAAGTTCCTTGAG TCTATGGTTCAATCGGCTCGGTTCGATG AAG
335	Amaranthus palmeri	PPOX_B9_22	gDNA Contig	3676	3875	CTTCATCGAACCGAGCCGATTGAACCAT AGACTCAAGGAACTTCAACAATTCCTCA AAGGGCCAATTCGACCATGAGTCGCAAC ATAATTCTACATGGAATCCAAAGTCTGG ATCAATGCTATGATCTTCTAAGCAGAAA TAGGCAAATAGCCAATGATTCTACATCT GTAAGAACTATAACCTTACGGGCTAAAG CTCT
336	Amaranthus palmeri	PPOX_B9_23	gDNA Contig	3851	4050	GTTCAATCGGCTCGGTTCGATGAAGGTT GGACTGTGTCGAGACAAGATGGGTCAA

						AGAGACCAATGGACAAGAAGTCGACCT TGGGCAAGCTTGATCAAGTTACTTGGAC GAGCAGATAACAGCAGGCTCTGGCGAG CATTAGACATACATATCATTTGTTTTTTG AAGTCAGATCTGCAATCAATCAGTTGCA ATGGAC
337	Amaranthus palmeri	PPOX_B9_23	gDNA Contig	3851	4050	GTCCATTGCAACTGATTGATTGCAGATC TGACTTCAAAAAACAAATGATATGTATG TCTAATGCTCGCCAGAGCCTGCTGTTATC TGCTCGTCCAAGTAACTTGATCAAGCTT GCCCAAGGTCGACTTCTTGTCCATTGGT CTCTTTGACCCATCTTGTCTCGACACAGT CCAACCTTCATCGAACCGAGCCGATTGA AC
338	Amaranthus palmeri	PPOX_B9_24	gDNA Contig	4026	4225	CTGCAATCAATCAGTTGCAATGGACAGA CCATATACGGTTGTTAGTTGTTCCTGTCA CTCTTTGAGTTGAATTAGATCATGCAAA CACTGTAAGAGTCTTGATTTTGTGAAGC TATGTGATACTGTACTTCTCAAAATGAA ATCTTTGATATGATGTTAGCTTCAAGAGT TGTTTTTCCCCCCCTCACATTCTGTTCTAT
339	Amaranthus palmeri	PPOX_B9_24	gDNA Contig	4026	4225	ATAGAACAGAATGTGAGGGGGGGAAA AACAACTCTTGAAGCTAACATCATATCA AAGATTTCATTTTGAGAAGTACAGTATC ACATAGCTTCACAAAATCAAGACTCTTA CAGTGTTTGCATGATCTAATTCAACTCAA AGAGTGACAGGAACAACTAACAACCGT ATATGGTCTGTCCATTGCAACTGATTGAT TGCAG
340	Amaranthus palmeri	PPOX_B9_25	gDNA Contig	4201	4400	TTCCCCCCCTCACATTCTGTTCTATGTTGT ATTGTTGTGTGCTTTTTGGAATTGTATTC CTGTAATTAGAATTATTCCTGCAAAATG GTATTCCTTTATATCATCAAAGGAGTTTT TGTACTTCTAATCATTGATCTTTAGATGC AAAACTGAATTAATACAAGTGTTCTTGA TGAAGGCTTATTGAAGAACTCACTTTT
341	Amaranthus palmeri	PPOX_B9_25	gDNA Contig	4201	4400	AAAAGTGAGTTCTTCAATAAGCCTTCAT CAAGAACACTTGTATTAATTCAGTTTTGC ATCTAAAGATCAATGATTAGAAGTACAA AAACTCCTTTGATGATATAAAGGAATAC CATTTTGCAGGAATAATTCTAATTACAG GAATACAATTCCAAAAAGCACACAACAA TACAACATAGAACAGAATGTGAGGGGG GGAA
342	Amaranthus palmeri	PPOX_B9_26	gDNA Contig	4376	4575	AAGGCTTATTGAAGAACTCACTTTTTATT TATGTCTAAACTTGTTAAAGATGTTCTGC TTCCGCCCTTGCCACGGGATGTCGGGAT

						TGACTAAGGGTGGTAATCGAGGGATTC CTATGCTTGAATTGACTCGTTTAAGATTT TGCGTTGATTTTAAGTCAAATGTTTTGCT AAGCATAAACTATTCTAGCTCGACTTGA A
343	Amaranthus palmeri	PPOX_B9_26	gDNA Contig	4376	4575	TTCAAGTCGAGCTAGAATAGTTTATGCT TAGCAAAACATTTGACTTAAAATCAACG CAAAATCTTAAACGAGTCAATTCAAGCA TAGGAATCCCTCGATTACCACCCTTAGTC AATCCCGACATCCCGTGGCAAGGGCGG AAGCAGAACATCTTTAACAAGTTTAGAC ATAAATAAAAAGTGAGTTCTTCAATAAG CCTT
344	Amaranthus palmeri	PPOX_B9_27	gDNA Contig	4551	4750	ATAAACTATTCTAGCTCGACTTGAATAAT GAAGTTTTCGAGTCAAGTCCGAGCTGTT CTGTAAGTTTATGTATCTTGAAGCTTCTT AGTTCTTACTTCTTATCCTTATTTGTTTGA CACATTGAACCGCGTTGATGCTTGCTTG ACTCAACCCGTTAAAGTCTTGAATTCATC ACGAATTCGAGTCGAGCAAGTTTAAAC
345	Amaranthus palmeri	PPOX_B9_27	gDNA Contig	4551	4750	GTTTAAACTTGCTCGACTCGAATTCGTG ATGAATTCAAGACTTTAACGGGTTGAGT CAAGCAAGCATCAACGCGGTTCAATGTG TCAAACAAATAAGGATAAGAAGTAAGA ACTAAGAAGCTTCAAGATACATAAACTT ACAGAACAGCTCGGACTTGACTCGAAAA CTTCATTATTCAAGTCGAGCTAGAATAG TTTAT
346	Amaranthus palmeri	PPOX_B9_28	gDNA Contig	4726	4925	GAATTCGAGTCGAGCAAGTTTAAACCCA ACATTAACTAAGCTCTCGAGGCTTAATG AGGCAGGGGTAGCTCAAGTTTGTTATTC AAGCAACTTACCATAGTATTCTTTTAAAA GGCATATAGTCAGTTAGTTATTTGTTAAT TTCAGTAGAACGAAAGAAGTACATTATT AAACTTGGCCATTGATGCTTGAGCTAGA GA
347	Amaranthus palmeri	PPOX_B9_28	gDNA Contig	4726	4925	TCTCTAGCTCAAGCATCAATGGCCAAGT TTAATAATGTACTTCTTTCGTTCTACTGA AATTAACAAATAACTAACTGACTATATG CCTTTTAAAAGAATACTATGGTAAGTTG CTTGAATAACAAACTTGAGCTACCCCTG CCTCATTAAGCCTCGAGAGCTTAGTTAA TGTTGGGTTTAAACTTGCTCGACTCGAA TTC
348	Amaranthus palmeri	PPOX_B9_29	gDNA Contig	4901	5100	TGGCCATTGATGCTTGAGCTAGAGAGCT TCGGTTGTGATCGAAACGAATCCTGATT TCGCTCTTGATCTTTGATGTGAAGTGAC

						AAGGCCTTCATAAAACTCCTTTATTCTTC AGCAGTGCATACAAAAATCATGTGTGCC CAGCTCCTAGCTCACATACCGCGTTTTTC CCCTAATCTAGTGTGGTCAAATAAAAAC AG
349	Amaranthus palmeri	PPOX_B9_29	gDNA Contig	4901	5100	CTGTTTTTATTTGACCACACTAGATTAGG GGAAAAACGCGGTATGTGAGCTAGGAG CTGGGCACACATGATTTTTGTATGCACT GCTGAAGAATAAAGGAGTTTTATGAAG GCCTTGTCACTTCACATCAAAGATCAAG AGCGAAATCAGGATTCGTTTCGATCACA ACCGAAGCTCTCTAGCTCAAGCATCAAT GGCCA
350	Amaranthus palmeri	PPOX_B9_30	gDNA Contig	5076	5275	ATCTAGTGTGGTCAAATAAAAACAGCAA GATGTGTTGATGTCATGTGCAATAGTAA TTATCAGGTGAAGTAATGCAATATGTAG CCAGTCACCTCATATCAAAAAAATGTTG GGAGGAAAACGTATTCGTTCATCACTAA ACCTGTGTTTATACATCTAACTGATCGAT CAGGGTTTCAAAATCCAAATTAATACAA TGG
351	Amaranthus palmeri	PPOX_B9_30	gDNA Contig	5076	5275	CCATTGTATTAATTTGGATTTTGAAACCC TGATCGATCAGTTAGATGTATAAACACA GGTTTAGTGATGAACGAATACGTTTTCC TCCCAACATTTTTTTGATATGAGGTGACT GGCTACATATTGCATTACTTCACCTGATA ATTACTATTGCACATGACATCAACACATC TTGCTGTTTTTATTTGACCACACTAGAT
352	Amaranthus palmeri	PPOX_B9_31	gDNA Contig	5251	5450	TTCAAAATCCAAATTAATACAATGGCATT TGACGAAGATATCCAGAACACATCCCCC TTGTTTCTGCTAGATAATCAACTATTCTG ATTCTGCTGTAATACCTCAGCTTCGGCCC TAGCCATGGGATCGTCCTCTTTTTCTCCT TCACGCTCCTCGGCCAGTTTCTTTCTGTG CAGTTCTTCAGCAGCTTCTATTGAAGC
353	Amaranthus palmeri	PPOX_B9_31	gDNA Contig	5251	5450	GCTTCAATAGAAGCTGCTGAAGAACTGC ACAGAAAGAAACTGGCCGAGGAGCGTG AAGGAGAAAAAGAGGACGATCCCATGG CTAGGGCCGAAGCTGAGGTATTACAGC AGAATCAGAATAGTTGATTATCTAGCAG AAACAAGGGGGATGTGTTCTGGATATCT TCGTCAAATGCCATTGTATTAATTTGGAT TTTGAA
354	Amaranthus palmeri	PPOX_B9_32	gDNA Contig	5426	5625	GTTCTTCAGCAGCTTCTATTGAAGCTTTG TTCTCGGCCTGAAGACGCTGCATTTCCTC TTCCATTTGCTGCCTCTCAAACCATGTAT CAGCATCCGCCCAAACTGCAGACAAGTA

						TACAAAAGTTAAATAACGAAAGTCTTCA AAACTGCAGATCCAGTGAACAAAGTCAT TGTTGCCAATGCCCATGCAAACCGCAAA A
355	Amaranthus palmeri	PPOX_B9_32	gDNA Contig	5426	5625	TTTTGCGGTTTGCATGGGCATTGGCAAC AATGACTTTGTTCACTGGATCTGCAGTTT TGAAGACTTTCGTTATTTAACTTTTGTAT ACTTGTCTGCAGTTTGGGCGGATGCTGA TACATGGTTTGAGAGGCAGCAAATGGA AGAGGAAATGCAGCGTCTTCAGGCCGA GAACAAAGCTTCAATAGAAGCTGCTGAA GAAC
356	Amaranthus palmeri	PPOX_B9_33	gDNA Contig	5601	5800	GCCAATGCCCATGCAAACCGCAAAACAG CAGGGCAAAAGAACACAACATTGCAGC ATAAAGAGCAAGTTCAGTGATCTACAGT TACTACAAAATTTAGGTTTGGGATACCA GCATGTCAATATGAATGAATTTGCTAAT ACATGTAACCCAAGAACTATAAGTCTAT AACTAACAATTAAGAAAAGAAAACCAG AAGTTC
357	Amaranthus palmeri	PPOX_B9_33	gDNA Contig	5601	5800	GAACTTCTGGTTTTCTTTTCTTAATTGTTA GTTATAGACTTATAGTTCTTGGGTTACAT GTATTAGCAAATTCATTCATATTGACATG CTGGTATCCCAAACCTAAATTTTGTAGTA ACTGTAGATCACTGAACTTGCTCTTTATG CTGCAATGTTGTGTTCTTTTGCCCTGCTG TTTTGCGGTTTGCATGGGCATTGGC
358	Amaranthus palmeri	PPOX_B9_34	gDNA Contig	5776	5975	ATTAAGAAAAGAAAACCAGAAGTTCCCT ACCACTGGAGTATTAGCAAGGTAACGAC TGCCTGCTGATAAGAATTATTGGCCTGG AAGTCTGGAACTATGTGATGATCAACAT GTGTTGCTATTCTAGGTAAAACTAATCTA TCATAATATAATTAAACTACAGGCCCCA GAATTGGGGTCCTGAGCTATTGATCATG CTG
359	Amaranthus palmeri	PPOX_B9_34	gDNA Contig	5776	5975	CAGCATGATCAATAGCTCAGGACCCCAA TTCTGGGGCCTGTAGTTTAATTATATTAT GATAGATTAGTTTTACCTAGAATAGCAA CACATGTTGATCATCACATAGTTCCAGA CTTCCAGGCCAATAATTCTTATCAGCAG GCAGTCGTTACCTTGCTAATACTCCAGT GGTAGGGAACTTCTGGTTTTCTTTTCTTA AT
360	Amaranthus palmeri	PPOX_B9_35	gDNA Contig	5951	6150	GGGTCCTGAGCTATTGATCATGCTGTTA AAGCAAAAGAGTTGGGCTGAATGAGAC TAGCAATTAAAAGCATAGGATACACTGA ACAATGCTTCCCCCTCCCCATCCAAACAC

						GTAGGTTTTAGTTACACAATAGTGGCTT GAGCTAGAAAACCATAAGGATATCATA GTGGACACATCATAGTTAAGTTTTACAT AAATA
361	Amaranthus palmeri	PPOX_B9_35	gDNA Contig	5951	6150	TATTTATGTAAAACTTAACTATGATGTGT CCACTATGATATCCTTATGGTTTTCTAGC TCAAGCCACTATTGTGTAACTAAAACCT ACGTGTTTGGATGGGGAGGGGGAAGCA TTGTTCAGTGTATCCTATGCTTTTAATTG CTAGTCTCATTCAGCCCAACTCTTTTGCT TTAACAGCATGATCAATAGCTCAGGACC C
362	Amaranthus palmeri	PPOX_B9_36	gDNA Contig	6126	6325	ATCATAGTTAAGTTTTACATAAATATACC TTATACATGTATAAGCAATACATTTCCAG GTTGATAGGTCAGTTTTATGTCTATATTG ATCGCCATTCTATTATGAGGGAATTATAT TCCAATAATGGGTAATCATCAATGAGCA GTATTTATAGGAATTTATTGATAGCGTTT CTATTATTAGGATATAGAAATTCCAAT
363	Amaranthus palmeri	PPOX_B9_36	gDNA Contig	6126	6325	ATTGGAATTTCTATATCCTAATAATAGAA ACGCTATCAATAAATTCCTATAAATACTG CTCATTGATGATTACCCATTATTGGAATA TAATTCCCTCATAATAGAATGGCGATCA ATATAGACATAAAACTGACCTATCAACC TGGAAATGTATTGCTTATACATGTATAA GGTATATTTATGTAAAACTTAACTATGAT
364	Amaranthus palmeri	PPOX_B12_1	gDNA Contig	1	200	TAAAAATGACGTTAAATATATTTTATTTT TATTTTGTTAATTTATGTGTTTTAATTATA AAGTATTAAAAAATACGATGATTAATAA GATACTGCTACATAGACAACTTAACCTCT CAAATTGGTCAAACCCTTAAACTTAACG GTTAACTAACGTTTTCCATTAAGTGATAG TCATTTGCAGAGATTTATATTAGATTA
365	Amaranthus palmeri	PPOX_B12_1	gDNA Contig	1	200	TAATCTAATATAAATCTCTGCAAATGACT ATCACTTAATGGAAAACGTTAGTTAACC GTTAAGTTTAAGGGTTTGACCAATTTGA GAGGTTAAGTTGTCTATGTAGCAGTATC TTATTAATCATCGTATTTTTTAATACTTTA TAATTAAAACACATAAATTAACAAAATA AAAATAAAATATATTTAACGTCATTTTTA
366	Amaranthus palmeri	PPOX_B12_2	gDNA Contig	176	375	ATTTGCAGAGATTTATATTAGATTAGGT AGTTTTTTGCAAAAAAAAAAATTACATT AGGTAGTTTTTTTGCAAATAGACCTATAG ATTAGGCAGTTTCTTATAATTTTTCCTTCT TATTATTTGTTGTTTCAGATATGGCTTCA AGAATGAAGTTTGGTAACCAAACTTTTC AAATTTGAAGTGAGGGTTGGAGCTCTG

						GT
367	Amaranthus palmeri	PPOX_B12_2	gDNA Contig	176	375	ACCAGAGCTCCAACCCTCACTTCAAATTT GAAAAGTTTGGTTACCAAACTTCATTCTT GAAGCCATATCTGAAACAACAAATAATA AGAAGGAAAAATTATAAGAAACTGCCTA ATCTATAGGTCTATTTGCAAAAAACTACC TAATGTAATTTTTTTTTTTGCAAAAAACT ACCTAATCTAATATAAATCTCTGCAAAT
368	Amaranthus palmeri	PPOX_B12_3	gDNA Contig	351	550	TTGAAGTGAGGGTTGGAGCTCTGGTGTT GGAAGCCTTTTTTGTAACACCCCAAAAA TTTTAGGCAAACTTTATACGTTTGTTTAT CCAAAAAAAAAAATAATAAATAAATAAAA AAAAAAAAATTCTTAAAGTAGAACCACT TAAGGGTCGGAGGTCTAGGTAATAATTT TGGAGTGATAAATGTAAAGATTGAAGA GTTT
369	Amaranthus palmeri	PPOX_B12_3	gDNA Contig	351	550	AAACTCTTCAATCTTTACATTTATCACTCC AAAATTATTACCTAGACCTCCGACCCTTA AGTGGTTCTACTTTAAGAATTTTTTTTTT TTATTTATTTATTATTTTTTTTTGGATAA ACAAACGTATAAAGTTTGCCTAAAATTTT TGGGGTGTTACAAAAAAGGCTTCCAACA CCAGAGCTCCAACCCTCACTTCAA
370	Amaranthus palmeri	PPOX_B12_4	gDNA Contig	526	725	GATAAATGTAAAGATTGAAGAGTTTGTA ACTCATACCATTAGTTCACTCATTTACCT CAATTTATGATTATAATTAAGTATTACAA AAAAAAGGGGAAACAATCACTTCATATT CCAAAGGTGAAGCTTTTAATAGTGAAGG AAAAGGATTTCTTAAGCAATACAGTATT AAACGTAAACTAAAAAAAAATAATAAATC AT
371	Amaranthus palmeri	PPOX_B12_4	gDNA Contig	526	725	ATGATTTATTATTTTTTTTAGTTTACGTTT AATACTGTATTGCTTAAGAAATCCTTTTC CTTCACTATTAAAAGCTTCACCTTTGGAA TATGAAGTGATTGTTTCCCCTTTTTTTTG TAATACTTAATTATAATCATAAATTGAGG TAAATGAGTGAACTAATGGTATGAGTTA CAAACTCTTCAATCTTTACATTTATC
372	Amaranthus palmeri	PPOX_B12_5	gDNA Contig	701	900	TAAACTAAAAAAAAATAATAAATCATATC TTAATTTTGAGAAGTTTTATTCTTAATTT GTTTATCCCTATCAATACTAAGCTTGGGA TAATAAACAAAGGGTTATCAAGGTTGGA GGATTTTTAATTTCGAGATTATATACTTG AATTGAAGAAATTTTATGTTCAAGAGAA TTATATTAGAGGAATATTTGTAAGGCTA T
373	Amaranthus	PPOX_B12_5	gDNA	701	900	ATAGCCTTACAAATATTCCTCTAATATAA

	palmeri		Contig			TTCTCTTGAACATAAAATTTCTTCAATTC AAGTATATAATCTCGAAATTAAAAATCC TCCAACCTTGATAACCCTTTGTTTATTAT CCCAAGCTTAGTATTGATAGGGATAAAC AAATTAAGAATAAAACTTCTCAAAATTA AGATATGATTTATTATTTTTTTTAGTTTA
374	Amaranthus palmeri	PPOX_B12_6	gDNA Contig	876	1075	ATTAGAGGAATATTTGTAAGGCTATTAT CTACAATTCTTCATATTTCTCTAATTGAA ATATATATAAAGGTAACTAGTTTACCCTC TCTTTTCTTAATTCATATACATTGTTATTT TTTTTATTATATGGAAAATATAAAACGG AAAAAAAAATGTAAATTAAACTTATCTT AGTTTTGAGATAATTGATGTTATATAGT
375	Amaranthus palmeri	PPOX_B12_6	gDNA Contig	876	1075	ACTATATAACATCAATTATCTCAAAACTA AGATAAGTTTAATTTACATTTTTTTTTCC GTTTTATATTTTCCATATAATAAAAAAAA TAACAATGTATATGAATTAAGAAAAGAG AGGGTAAACTAGTTACCTTTATATATATT TCAATTAGAGAAATATGAAGAATTGTAG ATAATAGCCTTACAAATATTCCTCTAAT
376	Amaranthus palmeri	PPOX_B12_7	gDNA Contig	1051	1250	TTTGAGATAATTGATGTTATATAGTCTTA TAATGTTGATTAACGTTGAAAATTGAAT TACAAAACTAAATAATTTAAACATATGA TTTGTTAACTTCTACTAATTAAATCTTGG TTAGGGGTGATTTAGTTGATTTGAGAAA TATCCAAATAAATAATTAGATTAGTTTG GTGAAATAATATTTTTTTTTGACTTCGAA A
377	Amaranthus palmeri	PPOX_B12_7	gDNA Contig	1051	1250	TTTCGAAGTCAAAAAAAAATATTATTTCA CCAAACTAATCTAATTATTTATTTGGATA TTTCTCAAATCAACTAAATCACCCCTAAC CAAGATTTAATTAGTAGAAGTTAACAAA TCATATGTTTAAATTATTTAGTTTTGTAA TTCAATTTTCAACGTTAATCAACATTATA AGACTATATAACATCAATTATCTCAAA
378	Amaranthus palmeri	PPOX_B12_8	gDNA Contig	1226	1425	ATAATATTTTTTTTTGACTTCGAAAACAA TGGGTTAATTTGGCACACTAATTTGGAA TGTACAAATAAGTTCATTAGAGTAGAGC TTCTTAAATTATGTTTTGGTATAGTTAAA AGTGATGTTAATGTATGGTTAATATTTTA TAAATATTTTATATATTTTGTTTAGTTGA ATTGGCCACTTAATGAATTTGTACATTG
379	Amaranthus palmeri	PPOX_B12_8	gDNA Contig	1226	1425	CAATGTACAAATTCATTAAGTGGCCAAT TCAACTAAACAAAATATATAAAATATTTA TAAAATATTAACCATACATTAACATCACT TTTAACTATACCAAAACATAATTTAAGAA GCTCTACTCTAATGAACTTATTTGTACAT

						TCCAAATTAGTGTGCCAAATTAACCCATT GTTTTCGAAGTCAAAAAAAAATATTAT
380	Amaranthus palmeri	PPOX_B12_9	gDNA Contig	1401	1600	GGCCACTTAATGAATTTGTACATTGCTGT TAAAAAAAAAGAGAGGATATTAATCGTT TGGTACAACAGCATAATTGAGCAAATCA TAAATCTGCCAAAATTCAAGTAATTAAA AATAATTATCAATTAACAGTTATACAAGT GTATGTATGTGGCATTAGCCTAATTGAT TGCGCAAGGACTAAATAATTACTTATTC AG
381	Amaranthus palmeri	PPOX_B12_9	gDNA Contig	1401	1600	CTGAATAAGTAATTATTTAGTCCTTGCGC AATCAATTAGGCTAATGCCACATACATA CACTTGTATAACTGTTAATTGATAATTAT TTTTAATTACTTGAATTTTGGCAGATTTA TGATTTGCTCAATTATGCTGTTGTACCAA ACGATTAATATCCTCTCTTTTTTTTTAACA GCAATGTACAAATTCATTAAGTGGCC
382	Amaranthus palmeri	PPOX_B12_10	gDNA Contig	1576	1775	AAGGACTAAATAATTACTTATTCAGGTA ATTTAGTATTTTATCCAGGTTAATTAGAG GTTAGTTGAGTTGATTATGATCAATATTT TGGTTAAATATAAATTTTGGCAAAGAAA AATGAGTATTAATATTGTATTTATTTTGA GACTCGACAATTTTTAGTTGAATTGTTAC TTTCTAAGATGTTAAGAGTGTTGTTGAC
383	Amaranthus palmeri	PPOX_B12_10	gDNA Contig	1576	1775	GTCAACAACACTCTTAACATCTTAGAAA GTAACAATTCAACTAAAAATTGTCGAGT CTCAAAATAAATACAATATTAATACTCAT TTTTCTTTGCCAAAATTTATATTTAACCA AAATATTGATCATAATCAACTCAACTAAC CTCTAATTAACCTGGATAAAATACTAAAT TACCTGAATAAGTAATTATTTAGTCCTT
384	Amaranthus palmeri	PPOX_B15_1	gDNA Contig	1	200	TCAAATTGGTCAAACCCTTAAACGATCA ACTAACGTTTTCCATTAAGTGGTAGTCAT TTGCAAAGAAATATATTATATTATGTAGT TTTTTACAAAAAAAGAAAACTACATTAG GCAGTTTTTTGCAAATAGACCTATTAGAT TTTTTTTTTAATTTTTCCTTCTTGTTATTTG CTGTTTCTAATGTGGCTTCAAAAATG
385	Amaranthus palmeri	PPOX_B15_1	gDNA Contig	1	200	CATTTTTGAAGCCACATTAGAAACAGCA AATAACAAGAAGGAAAAATTAAAAAAA AAATCTAATAGGTCTATTTGCAAAAAAC TGCCTAATGTAGTTTTCTTTTTTTGTAAA AAACTACATAATATAATATATTTCTTTGC AAATGACTACCACTTAATGGAAAACGTT AGTTGATCGTTTAAGGGTTTGACCAATT TGA
386	Amaranthus	PPOX_B15_2	gDNA	176	375	TGTTTCTAATGTGGCTTCAAAAATGAAG

	palmeri		Contig			TTTGGTAACCAAACTTTTCAAATTTGAAG TGAGGGTTGGGAAGCCTTTTGGTGTCCC TTCTATTAAGAGTTGGGGCCTCACAATC ACTAGATAACGTGCCTTTCTCTCATGCCT TACCTTTCTAATTCTTAGAATAGAAAAAA GACGGTGAATTTTTTATACGCTGTATGA T
387	Amaranthus palmeri	PPOX_B15_2	gDNA Contig	176	375	ATCATACAGCGTATAAAAAATTCACCGT CTTTTTTCTATTCTAAGAATTAGAAAGGT AAGGCATGAGAGAAAGGCACGTTATCT AGTGATTGTGAGGCCCCAACTCTTAATA GAAGGGACACCAAAAGGCTTCCCAACC CTCACTTCAAATTTGAAAAGTTTGGTTAC CAAACTTCATTTTTGAAGCCACATTAGAA ACA
388	Amaranthus palmeri	PPOX_B15_3	gDNA Contig	351	550	GTGAATTTTTTATACGCTGTATGATTACA TTTTTTGAAATCTCTCCGATCATCTTGAT CATGGGATGGAATTGTTCGTGCACATGT TTTTTAAGAATGGAATCTAAGCATAGTG TATTAGAGAGAATGAGTGAAAGTTAGT GGAAAGAAAAATTGAGTTGGAGAATAA AATAAAAAACAAGTGGGTAATAGAAAT AAGTG
389	Amaranthus palmeri	PPOX_B15_3	gDNA Contig	351	550	CACTTATTTCTATTACCCACTTGTTTTTTA TTTTATTCTCCAACTCAATTTTTCTTTCCA CTAACTTTCACTCATTCTCTCTAATACACT ATGCTTAGATTCCATTCTTAAAAAACATG TGCACGAACAATTCCATCCCATGATCAA GATGATCGGAGAGATTTCAAAAAATGTA ATCATACAGCGTATAAAAAATTCAC
390	Amaranthus palmeri	PPOX_B15_4	gDNA Contig	526	725	AACAAGTGGGTAATAGAAATAAGTGGT TACGATGAAGAGGGTGTATAAATTTGTA GATAAGATTAAAAGGGGTGGGAGTACC ATTGTTATAAAAGAAAAGAGTGCAAAAT CCGTTGGACGAATTTAAATAAAAAGTGG TGTAAAATGAAAGGAACGACAAGAATA TGATTTTCCCAGCTATAACACTGTCACAA ATGTAA
391	Amaranthus palmeri	PPOX_B15_4	gDNA Contig	526	725	TTACATTTGTGACAGTGTTATAGCTGGG AAAATCATATTCTTGTCGTTCCTTTCATTT TACACCACTTTTTATTTAAATTCGTCCAA CGGATTTTGCACTCTTTTCTTTTATAACA ATGGTACTCCCACCCCTTTTAATCTTATC TACAAATTTATACACCCTCTTCATCGTAA CCACTTATTTCTATTACCCACTTGTT
392	Amaranthus palmeri	PPOX_B11_1	gDNA Contig	1	200	TCAGATATGTCTTCATAAAGTATTCAAGT TTGAGCATGAAAATCCACATGTACATGA

						CATGAGTATGCAAATGCAAGTAATACAA ACACATAGGCAAAAGAGATGATGTAAT CACTATTCGGTAATCGCTCGCGCACAAA TAGTAGCTCACTATATGAATGAGATGAG AAAATTTCAATTGTTGTAAAGGCGAGTT CCTT
393	Amaranthus palmeri	PPOX_B11_1	gDNA Contig	1	200	AAGGAACTCGCCTTTACAACAATTGAAA TTTTCTCATCTCATTCATATAGTGAGCTA CTATTTGTGCGCGAGCGATTACCGAATA GTGATTACATCATCTCTTTTGCCTATGTG TTTGTATTACTTGCATTTGCATACTCATG TCATGTACATGTGGATTTTCATGCTCAAA CTTGAATACTTTATGAAGACATATCTGA
394	Amaranthus palmeri	PPOX_B11_2	gDNA Contig	176	375	CAATTGTTGTAAAGGCGAGTTCCTTATG TTTTAGTCCAACAGTGTTTTGTAACCTTT GTGTAATTTTTTATATGAAGCACAAGAG CAGGTCTCAAATAAGTACAGGAGATAA ATGAAACTAGAAATAAAAGTGTTCAATA TACTTGGACATAGTCACATAGTTAATGC CAAAATCCATCTTTCTGATAAGTTGGGG CCAC
395	Amaranthus palmeri	PPOX_B11_2	gDNA Contig	176	375	GTGGCCCCAACTTATCAGAAAGATGGAT TTTGGCATTAACTATGTGACTATGTCCAA GTATATTGAACACTTTTATTTCTAGTTTC ATTTATCTCCTGTACTTATTTGAGACCTG CTCTTGTGCTTCATATAAAAAATTACACA AAGGTTACAAAACACTGTTGGACTAAAA CATAAGGAACTCGCCTTTACAACAATTG
396	Amaranthus palmeri	PPOX_B11_3	gDNA Contig	351	550	CATCTTTCTGATAAGTTGGGGCCACTTAT ACACTATACTAACATGAGCCTGGAAAGA AATAGCCAGCAGGACCGCAGGTATAGA TTGTTAGCTAGGAAAACCACAAAACCAT ACTCCCTCCATATTAAAATGACATTAACA AGTGATTAGTAATGTAATAACCTACTTA CATATTCTAACAAGTGATTAATTTCAATA GT
397	Amaranthus palmeri	PPOX_B11_3	gDNA Contig	351	550	ACTATTGAAATTAATCACTTGTTAGAATA TGTAAGTAGGTTATTACATTACTAATCAC TTGTTAATGTCATTTTAATATGGAGGGA GTATGGTTTTGTGGTTTTCCTAGCTAACA ATCTATACCTGCGGTCCTGCTGGCTATTT CTTTCCAGGCTCATGTTAGTATAGTGTAT AAGTGGCCCCAACTTATCAGAAAGATG
398	Amaranthus palmeri	PPOX_B11_4	gDNA Contig	526	725	CTAACAAGTGATTAATTTCAATAGTATTC CGACAAAATGTAGCTTTAATAATTATCTT CCATCTCATCAAATTTGTTTGGGAAATTT GTAACACTGATCAATGACTCTAGCACAA

						GGAATAGCTAAAATTATCATCATCATCA TGATCATCTTGACTAGTGTATCCCACTCA TAAGGAAACTATGATCAGGGTCTGGAA A
399	Amaranthus palmeri	PPOX_B11_4	gDNA Contig	526	725	TTTCCAGACCCTGATCATAGTTTCCTTAT GAGTGGGATACACTAGTCAAGATGATC ATGATGATGATGATAATTTTAGCTATTCC TTGTGCTAGAGTCATTGATCAGTGTTAC AAATTTCCCAAACAAATTTGATGAGATG GAAGATAATTATTAAAGCTACATTTTGTC GGAATACTATTGAAATTAATCACTTGTTA G
400	Amaranthus palmeri	PPOX_B11_5	gDNA Contig	701	900	GGAAACTATGATCAGGGTCTGGAAAGG GAAGGAAGGCGACAAATCATACCATAA AGGGAGTTTAGAGGTAATGAATACCTA AATCCTGATCCTAAAACAATTGATCTTCC CCATTACCACGCCAATATCAACCCACAA AGCATCCGGGGAAAGTCAAACAAAGGG AAAAATCACAATTGAAATATCCTAGTTTC AAGTTT
401	Amaranthus palmeri	PPOX_B11_5	gDNA Contig	701	900	AAACTTGAAACTAGGATATTTCAATTGT GATTTTTCCCTTTGTTTGACTTTCCCCGG ATGCTTTGTGGGTTGATATTGGCGTGGT AATGGGGAAGATCAATTGTTTTAGGATC AGGATTTAGGTATTCATTACCTCTAAACT CCCTTTATGGTATGATTTGTCGCCTTCCT TCCCTTTCCAGACCCTGATCATAGTTTCC
402	Amaranthus palmeri	PPOX_B11_6	gDNA Contig	876	1075	ATTGAAATATCCTAGTTTCAAGTTTCAAC CAATTGGGTACCATTTACCCATGTTCAA GTGTAGCAAAAACCCTAATATAGCATCT TAATACAGCTCCAGTAAACATTATGCAG TCTTAATCTGAAGCTACTATACCAAAAC GACTAACATTTAACAAATGCCATTCCACC ATTAAAAAAAAAGGGTGTTTTAGCGGTAA TG
403	Amaranthus palmeri	PPOX_B11_6	gDNA Contig	876	1075	CATTACCGCTAAAACACCCTTTTTTTTAA TGGTGGAATGGCATTTGTTAAATGTTAG TCGTTTTGGTATAGTAGCTTCAGATTAA GACTGCATAATGTTTACTGGAGCTGTAT TAAGATGCTATATTAGGGTTTTTGCTACA CTTGAACATGGGTAAATGGTACCCAATT GGTTGAAACTTGAAACTAGGATATTTCA AT
404	Amaranthus palmeri	PPOX_B11_7	gDNA Contig	1051	1250	AAAAAAGGGTGTTTTAGCGGTAATGAG TTGATCGGTCAATGTCAATCCGAGTAAG AAAAAATTAACACAATGCAAACCCATTT GCCATGTTTCAACACACAAACACAAAAC

						ACTGATAATTCCACAAATCTGATACTACA AGCAGCACAACAGTCAATTGCAAACATA ACCAAAAAAAGCTAAATAAACAGCAGA ACCTG
405	Amaranthus palmeri	PPOX_B11_7	gDNA Contig	1051	1250	CAGGTTCTGCTGTTTATTTAGCTTTTTTT GGTTATGTTTGCAATTGACTGTTGTGCT GCTTGTAGTATCAGATTTGTGGAATTAT CAGTGTTTTGTGTTTGTGTGTTGAAACAT GGCAAATGGGTTTGCATTGTGTTAATTT TTTCTTACTCGGATTGACATTGACCGATC AACTCATTACCGCTAAAACACCCTTTTTT
406	Amaranthus palmeri	PPOX_B11_8	gDNA Contig	1226	1425	AAAGCTAAATAAACAGCAGAACCTGGG ATCGGAAAAGGGTGGTCGGCGTCGTGA ACAAACTAGAGAGAGAAAGATGAATAT AGAGAGATAAAGGAGTGAGAAAGAAG GAAGGAGAGTAAGCAGAATGAAATGG GTAGTGTGGAGTGTGGAATAATGGTTG AAAATGAAGTGTGGCTCTTCCATAGAGG ATAGGGATGCTG
407	Amaranthus palmeri	PPOX_B11_8	gDNA Contig	1226	1425	CAGCATCCCTATCCTCTATGGAAGAGCC ACACTTCATTTTCAACCATTATTCCACAC TCCACACTACCCATTTCATTCTGCTTACTC TCCTTCCTTCTTTCTCACTCCTTTATCTCT CTATATTCATCTTTCTCTCTCTAGTTTGTT CACGACGCCGACCACCCTTTTCCGATCCC AGGTTCTGCTGTTTATTTAGCTTT
408	Amaranthus palmeri	PPOX_B11_9	gDNA Contig	1401	1600	TCTTCCATAGAGGATAGGGATGCTGAAA TTGAGTGGTGAATAAACAATCTGAACAA GATTTGGAGAATGCAAAAGAATCTCTGG ACTAAATTAATGGAAAATCAAATTGTAT GTAATGATTTAGATATTTAATTAGGGTTC TTGTTTGTGTCTACTCATTCTGTCACTCA CATGCATGCTCATTGTTTGTATCAATCTA A
409	Amaranthus palmeri	PPOX_B11_9	gDNA Contig	1401	1600	TTAGATTGATACAAACAATGAGCATGCA TGTGAGTGACAGAATGAGTAGACACAA ACAAGAACCCTAATTAAATATCTAAATC ATTACATACAATTTGATTTTCCATTAATTT AGTCCAGAGATTCTTTTGCATTCTCCAAA TCTTGTTCAGATTGTTTATTCACCACTCA ATTTCAGCATCCCTATCCTCTATGGAAGA
410	Amaranthus palmeri	PPOX_B11_10	gDNA Contig	1576	1775	ATGCTCATTGTTTGTATCAATCTAAAGCC AAGCATTGACTTTTTGGGAAAGCCAAAT AGAGAAAACAATATCCTAAAGGGGAAA TGGACTCATAAAACGTGATTGTTACTCC CACCTACAGATGTTCATTCGGGTCATCG AGTTGATTTAGGGTCAGGTGTTTCGGGT

						AGGTTCAAAATCGGGTTTTGTGTTCACATTGA
411	Amaranthus palmeri	PPOX_B11_10	gDNA Contig	1576	1775	TCAATGTGAACACAAAACCCGATTTTGAACCTACCCGAAACACCTGACCCTAAATCAACTCGATGACCCGAATGAACATCTGTAGGTGGGAGTAACAATCACGTTTTATGAGTCCATTTCCCCTTTAGGATATTGTTTTCTCTATTTGGCTTTCCCAAAAAGTCAATGCTTGGCTTTAGATTGATACAAACAATGAGCAT
412	Amaranthus palmeri	PPOX_B11_11	gDNA Contig	1751	1950	AAATCGGGTTTTGTGTTCACATTGATTTTTACATGATTTTAAATTCATATTGACGTCGGGTCAAGTCGGATTAGATTATTAACTCGGGTAAATATCGGATCATCGGGTCTGTTTTGAACACCTCTAGTATTTTCCAAGTTTTGTTGTATCACACATGCTTGTTGTGGATGACCTAAAATTCTTTACTGCTGAAACGGGAC
413	Amaranthus palmeri	PPOX_B11_11	gDNA Contig	1751	1950	GTCCCGTTTCAGCAGTAAAGAATTTTAGGTCATCCACAACAAGCATGTGTGATACAACAAAACTTGGAAAATACTAGAGGTGTTCAAAACAGACCCGATGATCCGATATTTACCCGAGTTAATAATCTAATCCGACTTGACCCGACGTCAATATGAATTTAAAATCATGTAAAAATCAATGTGAACACAAAACCCGATTT
414	Amaranthus palmeri	PPOX_B11_12	gDNA Contig	1926	2125	AAATTCTTTACTGCTGAAACGGGACATTCTGTGTTGCGTTACATTTGGTTTTTAGTAGAATATAAGTTTCGGTGGGTTGTTAAGGCAAAAAACAAGCAGATGAGAAGAAATGTGTGGCTGAGATGAATAGAGAGATTTTTGCGGATAGAACTAGGAAAGGGCACGTGGGTTCATATCCGTAAGTAAAAAGTTAGCATATA
415	Amaranthus palmeri	PPOX_B11_12	gDNA Contig	1926	2125	TATATGCTAACTTTTTACTTACGGATATGAACCCACGTGCCCTTTCCTAGTTCTATCCGCAAAAATCTCTCTATTCATCTCAGCCACACATTTCTTCTCATCTGCTTGTTTTTTGCCTTAACAACCCACCGAAACTTATATTCTACTAAAAACCAAATGTAACGCAACACAGAATGTCCCGTTTCAGCAGTAAAGAATTT
416	Amaranthus palmeri	PPOX_B11_13	gDNA Contig	2101	2300	TCCGTAAGTAAAAAGTTAGCATATAACTATAGAACACCGAAAAATGAAAAATGTAGCGAATTGATAAGTGATCATATGCAATATAAAGTTCTGGTGTTTTCTGATATATTCTTTTGTGACTAAATTGAACGGGAAACCATCAAAAATAATCGTCTGTCAAGGTATTGA

						AAATCCTAACTTGGGCTATCGGTGTAGG TAAC
417	Amaranthus palmeri	PPOX_B11_1 3	gDNA Contig	2101	230 0	GTTACCTACACCGATAGCCCAAGTTAGG ATTTTCAATACCTTGACAGACGATTATTT TTGATGGTTTCCCGTTCAATTTAGTCACA AAAGAATATATCAGAAAACACCAGAACT TTATATTGCATATGATCACTTATCAATTC GCTACATTTTTCATTTTTCGGTGTTCTAT AGTTATATGCTAACTTTTTACTTACGGA
418	Amaranthus palmeri	PPOX_B11_1 4	gDNA Contig	2276	247 5	AACTTGGGCTATCGGTGTAGGTAACCAT AAGGGTGGACTTTCAGTGGGAAAAGCG ATGGCCTCCGGATGCAAGGCTGCGGAA CTTGTAATATCCTATCTGGACTCTCATTT ATATGTGAAGATGGATGAGAAGACCGT GTAATTCTTCTCTGGGAACGTCCCCTGAT TTTGCGTCTGTATATCCGATGATATGTCG TTGG
419	Amaranthus palmeri	PPOX_B11_1 4	gDNA Contig	2276	247 5	CCAACGACATATCATCGGATATACAGAC GCAAAATCAGGGGACGTTCCCAGAGAA GAATTACACGGTCTTCTCATCCATCTTCA CATATAAATGAGAGTCCAGATAGGATAT TACAAGTTCCGCAGCCTTGCATCCGGAG GCCATCGCTTTTCCCACTGAAAGTCCACC CTTATGGTTACCTACACCGATAGCCCAA GTT
420	Amaranthus palmeri	PPOX_B11_1 5	gDNA Contig	2451	265 0	TGTATATCCGATGATATGTCGTTGGATT GATCACGATTGTAGTCACGTTTAGGAGT TGTGCAGTGACTTTTCTGCCTAAAGACT GGATCTGTTAGAAACAAATAGTCTATAG ATAGTTTCTTTGCTCATCAGGTTATCTTT CTTACACCAGTTGTGTATACAAATGTTGC ATAGCCTAACCTAAATTCTAAAATGCCAT T
421	Amaranthus palmeri	PPOX_B11_1 5	gDNA Contig	2451	265 0	AATGGCATTTTAGAATTTAGGTTAGGCT ATGCAACATTTGTATACACAACTGGTGT AAGAAAGATAACCTGATGAGCAAAGAA ACTATCTATAGACTATTTGTTTCTAACAG ATCCAGTCTTTAGGCAGAAAAGTCACTG CACAACTCCTAAACGTGACTACAATCGT GATCAATCCAACGACATATCATCGGATA TACA
422	Amaranthus palmeri	PPOX_B11_1 6	gDNA Contig	2626	282 5	CTAACCTAAATTCTAAAATGCCATTCCCT TTTATATAGGGTCATGTTTTTTGCATTTA TGAATGGTGAAATTTTAGATCTTCACTG AGAATAAAGGTTTTGGCAATTTCATAAT GGTGCTTATTAGGGGTATTTAAAACCGG ATATTGGCAATTTTCATTGATAATATTGT

						AATGGAAAAATGACGTTAAATATCTTTT T
423	Amaranthus palmeri	PPOX_B11_16	gDNA Contig	2626	2825	AAAAAGATATTTAACGTCATTTTTCCATT ACAATATTATCAATGAAAATTGCCAATA TCCGGTTTTAAATACCCCTAATAAGCACC ATTATGAAATTGCCAAAACCTTTATTCTC AGTGAAGATCTAAAATTTCACCATTCAT AAATGCAAAAAACATGACCCTATATAAA AGGGAATGGCATTTTAGAATTTAGGTTA G
424	Amaranthus rudis	PPOX_B24_1	gDNA Contig	1	200	ACACTCAAAACTATTCAGGAAAGGAAAA ATAATCCTCCACCCCCTCGAGACCCGTCC GTAATCACCATTACTTATTGCTTTCCATC ACCTTGAATCTTACCTTAATATACATGTA TTTAATTGATAATGTCACATTGCCTCATT TGCAGCCGCCTTCCTAAACCTAAGGGCC AGACTGTTGGATCCTTTAGGAAAGGGCT
425	Amaranthus rudis	PPOX_B24_1	gDNA Contig	1	200	AGCCCTTTCCTAAAGGATCCAACAGTCT GGCCCTTAGGTTTAGGAAGGCGGCTGC AAATGAGGCAATGTGACATTATCAATTA AATACATGTATATTAAGGTAAGATTCAA GGTGATGGAAAGCAATAAGTAATGGTG ATTACGGACGGGTCTCGAGGGGGTGGA GGATTATTTTTCCTTTCCTGAATAGTTTT GAGTGT
426	Amaranthus rudis	PPOX_B24_2	gDNA Contig	176	375	CTGTTGGATCCTTTAGGAAAGGGCTCAT TATGTTACCTACCGCCATTGCTGCTAGGT ATCTTTTGACTCTCAAACCTTATATATTTC TCATCTTCTCCTTCTGCCAGTGCCATACT AATACTAGTATCTTTACCATATATTTTTTA TTTTTTTAGGCTTGGCAGTAAAGTCAAA CTATCGTGGACACTTTCTAATATTGA
427	Amaranthus rudis	PPOX_B24_2	gDNA Contig	176	375	TCAATATTAGAAAGTGTCCACGATAGTT TGACTTTACTGCCAAGCCTAAAAAAATA AAAAATATATGGTAAAGATACTAGTATT AGTATGGCACTGGCAGAAGGAGAAGAT GAGAAATATATAAGGTTTGAGAGTCAA AAGATACCTAGCAGCAATGGCGGTAGG TAACATAATGAGCCCTTTCCTAAAGGAT CCAACAG
428	Amaranthus rudis	PPOX_B24_3	gDNA Contig	351	550	TATCGTGGACACTTTCTAATATTGATAAG TCGCTCAATGGAGAATACAATCTCACTT ATCAAACACCCGATGGACCGGTTTCTGT TAGGACCAAAGCGGTTGTCATGACCGTC CCTTCGTACATTGCAAGTAGCTTGCTTCG TCCGCTCTCAGTGAGTATCATTCTTTCCT TCATTTCTATTCTTTTAATGCTATCCAAT

429	Amaranthus rudis	PPOX_B24_3	gDNA Contig	351	550	ATTGGATAGCATTAAAAGAATAGAAATG AAGGAAAGAATGATACTCACTGAGAGC GGACGAAGCAAGCTACTTGCAATGTAC GAAGGGACGGTCATGACAACCGCTTTG GTCCTAACAGAAACCGGTCCATCGGGTG TTTGATAAGTGAGATTGTATTCTCCATTG AGCGACTTATCAATATTAGAAAGTGTCC ACGATA
430	Amaranthus rudis	PPOX_B22_1	gDNA Contig	1	200	AGAGAGTGCGAGAGAGATGAGTGCGAT GGCGTTATCGAGCAGCATTCTACAATGT CCGCCGCACTCCGACATCTCGTTCCGCTT TTTTGCTCATACACGAACCCAATCCCCCA TCTTCTTCGGAAGACCACGAAAATTATC ATATATCCATTGTTCCACAAGCTCAAGCT CAACTGCCAATTACCAGAACACCATTAC GA
431	Amaranthus rudis	PPOX_B22_1	gDNA Contig	1	200	TCGTAATGGTGTTCTGGTAATTGGCAGT TGAGCTTGAGCTTGTGGAACAATGGATA TATGATAATTTTCGTGGTCTTCCGAAGA AGATGGGGGATTGGGTTCGTGTATGAG CAAAAAAGCGGAACGAGATGTCGGAGT GCGGCGGACATTGTAGAATGCTGCTCG ATAACGCCATCGCACTCATCTCTCTCGCA CTCTCT
432	Amaranthus rudis	PPOX_B22_2	gDNA Contig	176	375	GCCAATTACCAGAACACCATTACGAGCC AAGGAGAAGGAGATAAAGTATTAGATT GTGTAATTGTTGGAGCTGGTATCAGTGG ACTTTGCATTGCTCAGGCTCTTTCTACCA AACACATTCAATCCAATCTCAATTTCATT GTCACTGAAGCTAAACATCGTGTTGGAG GTAATATCACTACCATGGAGTCCGATGG CTA
433	Amaranthus rudis	PPOX_B22_2	gDNA Contig	176	375	TAGCCATCGGACTCCATGGTAGTGATAT TACCTCCAACACGATGTTTAGCTTCAGTG ACAATGAAATTGAGATTGGATTGAATGT GTTTGGTAGAAAGAGCCTGAGCAATGC AAAGTCCACTGATACCAGCTCCAACAAT TACACAATCTAATACTTTATCTCCTTCTCC TTGGCTCGTAATGGTGTTCTGGTAATTG GC
434	Amaranthus rudis	PPOX_B22_3	gDNA Contig	351	550	TCACTACCATGGAGTCCGATGGCTATAT CTGGGAAGAGGGTCCTAATAGTTTCCAA CCCTCCGATCCTGTGCTTACTATGGCGGT AAACTGATTCTTCTCTCTTTCTCCAATTTT TGATCATTCTATTCAATTTTCCCCTTATTG AATCAAAATCAAATTCCAGGTTGACAGT GGATTAAAAGACGATTTGGTCTTGGGA

435	Amaranthus rudis	PPOX_B22_3	gDNA Contig	351	550	TCCCAAGACCAAATCGTCTTTTAATCCAC TGTCAACCTGGAATTTGATTTTGATTCAA TAAGGGGAAAATTGAATAGAATGATCA AAAATTGGAGAAAGAGAGAAGAATCAG TTTACCGCCATAGTAAGCACAGGATCGG AGGGTTGGAAACTATTAGGACCCTCTTC CCAGATATAGCCATCGGACTCCATGGTA GTGA
436	Amaranthus rudis	PPOX_B22_4	gDNA Contig	526	725	ATTAAAAGACGATTTGGTCTTGGGAGAT CCTAATGCCCCTCGTTTCGTGCTCTGGAA TGGTAAATTAAGGCCTGTTCCTTCCAAA CCTACGGACCTTCCCTTTTTTGATCTCAT GAGCTTTCCTGGTAAGATTAGGGCTGGT CTTGGTGCACTTGGTCTTCGTCCTCCTCC TCCTCCTCCTTCTTATGAGGAATCTGTTG
437	Amaranthus rudis	PPOX_B22_4	gDNA Contig	526	725	CAACAGATTCCTCATAAGAAGGAGGAG GAGGAGGAGGACGAAGACCAAGTGCA CCAAGACCAGCCCTAATCTTACCAGGAA AGCTCATGAGATCAAAAAAGGGAAGGT CCGTAGGTTTGGAAGGAACAGGCCTTA ATTTACCATTCCAGAGCACGAAACGAGG GGCATTAGGATCTCCCAAGACCAAATCG TCTTTTAAT
438	Amaranthus rudis	PPOX_B22_5	gDNA Contig	701	900	CCTCCTTCTTATGAGGAATCTGTTGAAG AATTTGTGCGCCGTAATCTCGGCGATGA GGTCTTCGAACGCTTGATCGAACCCTTTT GTTCTGGTACCTACCCTGTTTAATTTTTC AATTTTCCCCCTTTTTTCTCTACTACTACT TTATTGATTCTTATCCATGAGTGTACTAT GGGAGTTGACAATAATTGTTCAGGTGT
439	Amaranthus rudis	PPOX_B22_5	gDNA Contig	701	900	ACACCTGAACAATTATTGTCAACTCCCAT AGTACACTCATGGATAAGAATCAATAAA GTAGTAGTAGAGAAAAAAGGGGGAAAA TTGAAAAATTAAACAGGGTAGGTACCA GAACAAAAGGGTTCGATCAAGCGTTCG AAGACCTCATCGCCGAGATTACGGCGCA CAAATTCTTCAACAGATTCCTCATAAGAA GGAGG
440	Amaranthus rudis	PPOX_B17_1	cDNA Contig	1	200	ATGGTAATTCAATCCATTACCCACCTTTC ACCAAACCTTGCATTGCCATCGCCATTGT CAGTTTCCACCAAGAACTACCCAGTAGC TGTAATGGGCAACATTTCTGAGCGGGAA GAACCCACTTCTGCTAAAAGGGTTGCTG TTGTTGGTGCTGGAGTTAGTGGACTTGC TGCTGCATATAAGCTAAAATCCCATGGT TT
441	Amaranthus	PPOX_B17_1	cDNA	1	200	AAACCATGGGATTTTAGCTTATATGCAG

	rudis		Contig			CAGCAAGTCCACTAACTCCAGCACCAAC AACAGCAACCCTTTTAGCAGAAGTGGGT TCTTCCCGCTCAGAAATGTTGCCCATTAC AGCTACTGGGTAGTTCTTGGTGGAAACT GACAATGGCGATGGCAATGCAAGGTTT GGTGAAAGGTGGGTAATGGATTGAATT ACCAT
442	Amaranthus rudis	PPOX_B17_2	cDNA Contig	176	375	CATATAAGCTAAAATCCCATGGTTTGAG TGTGACATTGTTTGAAGCTGATTCTAGA GCTGGAGGCAAACTTAAAACTGTTAAAA AAGATGGTTTTATTTGGGATGAGGGGG CAAATACTATGACAGAAAGTGAGGCAG AGGTCTCGAGTTTGATCGATGATCTTGG GCTTCGTGAGAAGCAACAGTTGCCAATT TCACAA
443	Amaranthus rudis	PPOX_B17_2	cDNA Contig	176	375	TTGTGAAATTGGCAACTGTTGCTTCTCAC GAAGCCCAAGATCATCGATCAAACTCGA GACCTCTGCCTCACTTTCTGTCATAGTAT TTGCCCCCTCATCCCAAATAAAACCATCT TTTTTAACAGTTTTAAGTTTGCCTCCAGC TCTAGAATCAGCTTCAAACAATGTCACA CTCAAACCATGGGATTTTAGCTTATATG
444	Amaranthus rudis	PPOX_B17_3	cDNA Contig	351	550	GAAGCAACAGTTGCCAATTTCACAAAAT AAAAGATACATAGCTAGAGACGGTCTTC CTGTGCTACTACCTTCAAATCCCGCTGCA CTACTCACGAGCAATATCCTTTCAGCAA AATCAAAGCTGCAAATTATGTTGGAACC ATTTCTCTGGAGAAAACACAATGCTACT GAACTTTCTGATGAGCATGTTCAGGAAA GCG
445	Amaranthus rudis	PPOX_B17_3	cDNA Contig	351	550	CGCTTTCCTGAACATGCTCATCAGAAAG TTCAGTAGCATTGTGTTTTCTCCAGAGAA ATGGTTCCAACATAATTTGCAGCTTTGAT TTTGCTGAAAGGATATTGCTCGTGAGTA GTGCAGCGGGATTTGAAGGTAGTAGCA CAGGAAGACCGTCTCTAGCTATGTATCT TTTATTTTGTGAAATTGGCAACTGTTGCT TC
446	Amaranthus rudis	PPOX_B17_4	cDNA Contig	526	725	TCTGATGAGCATGTTCAGGAAAGCGTTG GTGAATTTTTTGAGCGACATTTTGGGAA AGAGTTTGTTGATTATGTTATTGACCCTT TTGTTGCGGGTACATGTGGTGGAGATCC TCAATCGCTTTCCATGCACCATACATTTC CAGAAGTATGGAATATTGAAAAAAGGT TTGGCTCTGTGTTTGCTGGACTAATTCAA TC
447	Amaranthus	PPOX_B17_4	cDNA	526	725	GATTGAATTAGTCCAGCAAACACAGAGC

	rudis		Contig			CAAACCTTTTTTCAATATTCCATACTTCTG GAAATGTATGGTGCATGGAAAGCGATT GAGGATCTCCACCACATGTACCCGCAAC AAAAGGGTCAATAACATAATCAACAAAC TCTTTCCCAAAATGTCGCTCAAAAAATTC ACCAACGCTTTCCTGAACATGCTCATCA GA
448	Amaranthus rudis	PPOX_B17_5	cDNA Contig	701	900	CTGTGTTTGCTGGACTAATTCAATCAACA TTGTTATCTAAGAAGGAAAAGGGTGGA GAAAATGCTTCTATTAAGAAGCCTCGTG TACGTGGTTCATTTTCATTTCAAGGTGGA ATGCAGACACTTGTTGACACAATGTGCA AACAGCTTGGTGAAGATGAACTCAAACT CCAGTGTGAGGTGCTGTCCTTGTCATAT AAC
449	Amaranthus rudis	PPOX_B17_5	cDNA Contig	701	900	GTTATATGACAAGGACAGCACCTCACAC TGGAGTTTGAGTTCATCTTCACCAAGCT GTTTGCACATTGTGTCAACAAGTGTCTG CATTCCACCTTGAAATGAAAATGAACCA CGTACACGAGGCTTCTTAATAGAAGCAT TTTCTCCACCCTTTTCCTTCTTAGATAACA ATGTTGATTGAATTAGTCCAGCAAACAC AG
450	Amaranthus rudis	PPOX_B17_6	cDNA Contig	876	1075	TGAGGTGCTGTCCTTGTCATATAACCAG AAGGGGATCCCCTCATTAGGGAATTGGT CAGTCTCTTCTATGTCAAATAATACCAGT GAAGATCAATCTTATGATGCTGTGGTTG TCACTGCTCCAATTCGCAATGTCAAAGA AATGAAGATTATGAAATTTGGAAATCCA TTTTCACTTGACTTTATTCCAGAGGTGAC GT
451	Amaranthus rudis	PPOX_B17_6	cDNA Contig	876	1075	ACGTCACCTCTGGAATAAAGTCAAGTGA AAATGGATTTCCAAATTTCATAATCTTCA TTTCTTTGACATTGCGAATTGGAGCAGT GACAACCACAGCATCATAAGATTGATCT TCACTGGTATTATTTGACATAGAAGAGA CTGACCAATTCCCTAATGAGGGGATCCC CTTCTGGTTATATGACAAGGACAGCACC TCA
452	Amaranthus rudis	PPOX_B17_7	cDNA Contig	1051	1250	CTTGACTTTATTCCAGAGGTGACGTACG TACCCCTTTCCGTTATGATTACTGCATTC AAAAAGGATAAAGTGAAGAGACCTCTT GAGGGCTTCGGAGTTCTTATCCCCTCTA AAGAGCAACATAATGGACTGAAGACTCT TGGTACTTTATTTTCCTCCATGATGTTTC CTGATCGTGCTCCATCTGACATGTGTCTC TT

453	Amaranthus rudis	PPOX_B17_7	cDNA Contig	1051	1250	AAGAGACACATGTCAGATGGAGCACGA TCAGGAAACATCATGGAGGAAAATAAA GTACCAAGAGTCTTCAGTCCATTATGTT GCTCTTTAGAGGGGATAAGAACTCCGAA GCCCTCAAGAGGTCTCTTCACTTTATCCT TTTTGAATGCAGTAATCATAACGGAAAG GGGTACGTACGTCACCTCTGGAATAAAG TCAAG
454	Amaranthus rudis	PPOX_B17_8	cDNA Contig	1226	1425	GTGCTCCATCTGACATGTGTCTCTTTACT ACATTTGTCGGAGGAAGCAGAAATAGA AAACTTGCAAACGCTTCAACGGATGAAT TGAAGCAAATAGTTTCTTCTGACCTTCAG CAGCTGTTGGGCACTGAGGACGAACCTT CATTTGTCAATCATCTCTTTTGGAGCAAC GCATTCCCATTGTATGGACACAATTACG AT
455	Amaranthus rudis	PPOX_B17_8	cDNA Contig	1226	1425	ATCGTAATTGTGTCCATACAATGGGAAT GCGTTGCTCCAAAAGAGATGATTGACAA ATGAAGGTTCGTCCTCAGTGCCCAACAG CTGCTGAAGGTCAGAAGAAACTATTTGC TTCAATTCATCCGTTGAAGCGTTTGCAA GTTTTCTATTTCTGCTTCCTCCGACAAAT GTAGTAAAGAGACACATGTCAGATGGA GCAC
456	Amaranthus rudis	PPOX_B17_9	cDNA Contig	1401	1600	CCCATTGTATGGACACAATTACGATTCT GTTTTGAGAGCCATAGACAAGATGGAA AAGGATCTTCCTGGATTTTTTTATGCAGG TAACCATAAGGGTGGACTTTCAGTGGGA AAAGCGATGGCCTCCGGATGCAAGGCT GCGGAACTTGTAATATCCTATCTGGACT CTCATATATACGTGAAGATGGATGAGAA GACCG
457	Amaranthus rudis	PPOX_B17_9	cDNA Contig	1401	1600	CGGTCTTCTCATCCATCTTCACGTATATA TGAGAGTCCAGATAGGATATTACAAGTT CCGCAGCCTTGCATCCGGAGGCCATCGC TTTTCCCACTGAAAGTCCACCCTTATGGT TACCTGCATAAAAAAATCCAGGAAGATC CTTTTCCATCTTGTCTATGGCTCTCAAAA CAGAATCGTAATTGTGTCCATACAATGG G
458	Amaranthus rudis	PPOX_B20_1	gDNA Contig	1	200	ATTAAGTTTTGATGTTTTTAGCTGCAATA ATTTGTTGATGAAAAAGCCACTACTTTTT TCTCAGCTGCAAATTATGTTGGAACCATT TCTCTGGAGAAAACACAATGCTACTGAA CTTTCTGATGAGCATGTTCAGGAAAGGC AAGTGCCACATACTATTAAGTGTTAGTT GCTGAGAATATATTTGAATCTAAGATGC

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459	Amaranthus rudis	PPOX_B20_1	gDNA Contig	1	200	TGCATCTTAGATTCAAATATATTCTCAGC AACTAACACTTAATAGTATGTGGCACTT GCCTTTCCTGAACATGCTCATCAGAAAG TTCAGTAGCATTGTGTTTTCTCCAGAGAA ATGGTTCCAACATAATTTGCAGCTGAGA AAAAAGTAGTGGCTTTTTCATCAACAAA TTATTGCAGCTAAAAACATCAAAACTTA AT
460	Amaranthus rudis	PPOX_B20_2	gDNA Contig	176	375	AGAATATATTTGAATCTAAGATGCACGA AGACCACTGGTGCCCTTGCTCTATCAATT CTGATGGAAAGGATTATCGCTGAATTTA CCTTCTACTAAAACATCGATAAAATACTT CATTATTAGCATCAAAAGATTCCCTCCAT CCTTCTGGTTTTGCTAGACTTGCCTTATG AAGGTGTTCAAGGAGTAGTTTGCTACCC
461	Amaranthus rudis	PPOX_B20_2	gDNA Contig	176	375	GGGTAGCAAACTACTCCTTGAACACCTT CATAAGGCAAGTCTAGCAAAACCAGAA GGATGGAGGGAATCTTTTGATGCTAATA ATGAAGTATTTTATCGATGTTTTAGTAGA AGGTAAATTCAGCGATAATCCTTTCCATC AGAATTGATAGAGCAAGGGCACCAGTG GTCTTCGTGCATCTTAGATTCAAATATAT TCT
462	Amaranthus rudis	PPOX_B20_3	gDNA Contig	351	550	GTGTTCAAGGAGTAGTTTGCTACCCTTC AAGATAGGGTAGTGGTTGCCGTCTCTCA TAATTTCAGTCACTCGTTTTCCTCTCCTAA TTCAAGCCATAATTTTTATGGTTCCTCCA CACAACACTTGCTAAATTTGAAAAGTAG CAAAGAGGAAGTGAGCAAAATCAGCAG GAGTAGGACTGATGAGTAAGAGCTTGA TTA
463	Amaranthus rudis	PPOX_B20_3	gDNA Contig	351	550	TAATCAAGCTCTTACTCATCAGTCCTACT CCTGCTGATTTTGCTCACTTCCTCTTTGCT ACTTTTCAAATTTAGCAAGTGTTGTGTG GAGGAACCATAAAAATTATGGCTTGAAT TAGGAGAGGAAAACGAGTGACTGAAAT TATGAGAGACGGCAACCACTACCCTATC TTGAAGGGTAGCAAACTACTCCTTGAAC AC
464	Amaranthus rudis	PPOX_B20_4	gDNA Contig	526	725	GGACTGATGAGTAAGAGCTTGATTAAGT GTAGAGGATTTTCTTTTGTGTTGAATAT GAATGCATCATGCATGACTGTAGAATTG ACATAATGATTTGTCTGCAGCGTTGGTG AATTTTTTGAGCGACATTTTGGGAAAGA GGTATTGTTGCCAATTGCCATGCTCTATT CATTCCGGTGAATTAACAAATGTTGTGC

						TTC
465	Amaranthus rudis	PPOX_B20_4	gDNA Contig	526	725	GAAGCACAACATTTGTTAATTCACCGGA ATGAATAGAGCATGGCAATTGGCAACA ATACCTCTTTCCCAAAATGTCGCTCAAAA AATTCACCAACGCTGCAGACAAATCATT ATGTCAATTCTACAGTCATGCATGATGC ATTCATATTCAACACAAAAGAAAATCCT CTACACTTAATCAAGCTCTTACTCATCAG TCC
466	Amaranthus rudis	PPOX_B20_5	gDNA Contig	701	900	GGTGAATTAACAAATGTTGTGCTTCTGC TTACTATTGCTTATAATTATTGTTTGTTG CAGTTTGTTGATTATGTTATTGACCCTTT TGTTGCGGGTACATGTGGTGGAGATCCT CAATCGCTTTCCGTGAGTTAAATACTGT GCTTGCTTTTTTTTTTTCAACATTTTCTG GAGGCTGTAAATAAATTATACTCCTTTC
467	Amaranthus rudis	PPOX_B20_5	gDNA Contig	701	900	GAAAGGAGTATAATTTATTTACAGCCTC CAGAAAATGTTGAAAAAAAAAAAAGCA AGCACAGTATTTAACTCACGGAAAGCGA TTGAGGATCTCCACCACATGTACCCGCA ACAAAAGGGTCAATAACATAATCAACAA ACTGCAACAAACAATAATTATAAGCAAT AGTAAGCAGAAGCACAACATTTGTTAAT TCACC
468	Amaranthus rudis	PPOX_B20_6	gDNA Contig	876	1075	GCTGTAAATAAATTATACTCCTTTCTATT CTAATCAAATATCCTATTTCCCCTTTTGG CATATTCAAATTTAGTTAAATATTGTGTA AATTATTTACACAATTGCCATTAAATTTT CACTTTTCCCTTACTCACTCTTCTCATGTG TCCCTTCCCCCTTTTCTTAAAATTGGTGC ATTATCAAATAGGACATTTGATTTG
469	Amaranthus rudis	PPOX_B20_6	gDNA Contig	876	1075	CAAATCAAATGTCCTATTTGATAATGCAC CAATTTTAAGAAAAGGGGGAAGGGACA CATGAGAAGAGTGAGTAAGGGAAAAGT GAAAATTTAATGGCAATTGTGTAAATAA TTTACACAATATTTAACTAAATTTGAATA TGCCAAAAGGGGAAATAGGATATTTGA TTAGAATAGAAAGGAGTATAATTTATTT ACAGC
470	Amaranthus rudis	PPOX_B20_7	gDNA Contig	1051	1250	ATTATCAAATAGGACATTTGATTTGAAT AGGCGGGAGTTTCCAATTGTGCTTCCAA AGGTAGCTTGTCACTTTTTCTTTTTCTTTA AATTTTGTACCATGCCATGCATTTTGAAC CTCAACTCATTTCGCCATAAAGGAATATT ATGTTTGAGAAGAACGAGGATACTATTA TCTTATAGATAACATATAGGTTTCATTA
471	Amaranthus	PPOX_B20_7	gDNA	1051	125	TAATGAAACCTATATGTTATCTATAAGAT

	rudis		Contig		0	AATAGTATCCTCGTTCTTCTCAAACATAA TATTCCTTTATGGCGAAATGAGTTGAGG TTCAAAATGCATGGCATGGTACAAAATT TAAAGAAAAAGAAAAAGTGACAAGCTA CCTTTGGAAGCACAATTGGAAACTCCCG CCTATTCAAATCAAATGTCCTATTTGATA AT
472	Amaranthus rudis	PPOX_B20_8	gDNA Contig	1226	1425	TATAGATAACATATAGGTTTCATTATCAA TGATTGTTTGATTTTCAACTCTTCTTTTCC TTTCATGCTCATATTGATGTTATTTCTATT TGTTATGAATTATGTCCATTGTGTTAATG TCTTTCTTTATTGTAGATGCACCATACAT TTCCAGAAGTATGGAATATTGAAAAAAG GTATGAACCTTAAAGCTTTAATTTT
473	Amaranthus rudis	PPOX_B20_8	gDNA Contig	1226	1425	AAAATTAAAGCTTTAAGGTTCATACCTTT TTTCAATATTCCATACTTCTGGAAATGTA TGGTGCATCTACAATAAAGAAAGACATT AACACAATGGACATAATTCATAACAAAT AGAAATAACATCAATATGAGCATGAAAG GAAAAGAAGAGTTGAAAATCAAACAAT CATTGATAATGAAACCTATATGTTATCTA TA
474	Amaranthus rudis	PPOX_B20_9	gDNA Contig	1401	1600	GTATGAACCTTAAAGCTTTAATTTTCTTC GAACTTAATGTTTCTTAATTGATTCTTTT GGATCAATTTCCATAAGAATGGAAATTT AAAAAAGGGTATGAACCTTAAAGATTTC TTCGAACTTATATGTTTTGTAATTCATGC TTTTAGATGCTGCACCATTTTATCTATGT GTCTTAAGTTTGTTGTAATCATTTGTAG
475	Amaranthus rudis	PPOX_B20_9	gDNA Contig	1401	1600	CTACAAATGATTACAACAAACTTAAGAC ACATAGATAAAATGGTGCAGCATCTAAA AGCATGAATTACAAAACATATAAGTTCG AAGAAATCTTTAAGGTTCATACCCTTTTT TAAATTTCCATTCTTATGGAAATTGATCC AAAAGAATCAATTAAGAAACATTAAGTT CGAAGAAAATTAAAGCTTTAAGGTTCAT AC
476	Amaranthus rudis	PPOX_B20_10	gDNA Contig	1576	1775	TTAAGTTTGTTGTAATCATTTGTAGACCA AAAGAATGAATGGTCTGGTTTGAAATG GTTCATCGTGCAAAAATGCGATTTTGCTT GTGATTGAGGTAACATTCAAGGTGGTGT GTTTGTCGTACTGTCAAATGTCTTCCTAT ACCATGTGATATATATATAAGCCTAAAA TGATATATTGTACACCTTTAGGATGTGG AT
477	Amaranthus rudis	PPOX_B20_10	gDNA Contig	1576	1775	ATCCACATCCTAAAGGTGTACAATATAT CATTTTAGGCTTATATATATATCACATGG

						TATAGGAAGACATTTGACAGTACGACAA ACACACCACCTTGAATGTTACCTCAATCA CAAGCAAAATCGCATTTTTGCACGATGA ACCATTTCAAACCAGACCATTCATTCTTT TGGTCTACAAATGATTACAACAAACTTA A
478	Amaranthus rudis	PPOX_B20_11	gDNA Contig	1751	1950	TATTGTACACCTTTAGGATGTGGATAGC AGGGGTTCAGTACATATGAAAAATCCTT GCAATTTGATCTGTACGATCAATGTGAT TTTGCCTTTTGCCTTTTGCCTTTTGTTATA TGATGATGATTCCATGTGAAATTTTGGG ATTTAGAAAATTCACTTGTTTAAGAACAT TTGAATCAAACTTTCACCAATTTCAACCA
479	Amaranthus rudis	PPOX_B20_11	gDNA Contig	1751	1950	TGGTTGAAATTGGTGAAAGTTTGATTCA AATGTTCTTAAACAAGTGAATTTTCTAAA TCCCAAAATTTCACATGGAATCATCATCA TATAACAAAAGGCAAAAGGCAAAAGGC AAAATCACATTGATCGTACAGATCAAAT TGCAAGGATTTTTCATATGTACTGAACCC CTGCTATCCACATCCTAAAGGTGTACAA TA
480	Amaranthus rudis	PPOX_B20_12	gDNA Contig	1926	2125	ATCAAACTTTCACCAATTTCAACCACATT TAATTGCGGCAAAGCCGAACTTTAAAAG TCACTCCCAATCTTTGAGATATCCAAACT CCAAAACTTCTATTAGCTTTCATGTTTTC ACCAAGTAAAGTTGGTGCGACTCCTTAC CATTTTCTTTATTATGCATTTCGTTGATGT ATAATAGTATAGATTGGTGCTCTCTTT
481	Amaranthus rudis	PPOX_B20_12	gDNA Contig	1926	2125	AAAGAGAGCACCAATCTATACTATTATA CATCAACGAAATGCATAATAAAGAAAAT GGTAAGGAGTCGCACCAACTTTACTTGG TGAAAACATGAAAGCTAATAGAAGTTTT GGAGTTTGGATATCTCAAAGATTGGGA GTGACTTTTAAAGTTCGGCTTTGCCGCA ATTAAATGTGGTTGAAATTGGTGAAAGT TTGAT
482	Amaranthus rudis	PPOX_B20_13	gDNA Contig	2101	2300	AATAGTATAGATTGGTGCTCTCTTTGCTC TCCTTCCAACATGCATAACTTCTAGTTCT TGTCGTTTTCTTTTCCTCCCTATTTTTATT TGACTTGTAGCTATTTTTGTTCACTCTTCT CGCCCAATCCATAGCTAAAGAAACTTGA TTTCATTGATTTTGTAACTGATATGCAAT TCATTTTTGTTTGCTTTTAGTTGTT
483	Amaranthus rudis	PPOX_B20_13	gDNA Contig	2101	2300	AACAACTAAAAGCAAACAAAAATGAATT GCATATCAGTTACAAAATCAATGAAATC AAGTTTCTTTAGCTATGGATTGGGCGAG AAGAGTGAACAAAAATAGCTACAAGTC

						AAATAAAAATAGGGAGGAAAAGAAAAC GACAAGAACTAGAAGTTATGCATGTTGG AAGGAGAGCAAAGAGAGCACCAATCTA TACTATT
484	Amaranthus rudis	PPOX_B20_1 4	gDNA Contig	2276	247 5	TCATTTTTGTTTGCTTTTAGTTGTTGATTC AAAAACAATAATGCTAAAGCCCTAATCC TAACATGTCGGGTTAGCTGTTGAAACAA TACTTGAAATTGCTATAAAAAGGGATTT TTTTTCGGGTACTTCAGTTGTTGAGATTG ATATGGTCAAGTATAATTTGTTTTAACAC AATTTGTAATGATTTAATGGCTTAGTTT
485	Amaranthus rudis	PPOX_B20_1 4	gDNA Contig	2276	247 5	AAACTAAGCCATTAAATCATTACAAATT GTGTTAAAACAAATTATACTTGACCATAT CAATCTCAACAACTGAAGTACCCGAAAA AAAATCCCTTTTTATAGCAATTTCAAGTA TTGTTTCAACAGCTAACCCGACATGTTA GGATTAGGGCTTTAGCATTATTGTTTTTG AATCAACAACTAAAAGCAAACAAAAATG A
486	Amaranthus rudis	PPOX_B20_1 5	gDNA Contig	2451	265 0	TTGTAATGATTTAATGGCTTAGTTTCATA GCTGTTTGTATTAATAAAGGAAGGAGG ACTATCTGAAATTGCAATAGGAAAGAGA TTTTAGTTCGGTATTTGGTTGTTTAAATT GATATGGCCAAGTAATGTTCATTTTACA CAATTGGTAATGTTTTATTGGCTCAATAG TGTTTGTAAGTATGCGACTCAAATTTAAT C
487	Amaranthus rudis	PPOX_B20_1 5	gDNA Contig	2451	265 0	GATTAAATTTGAGTCGCATACTTACAAA CACTATTGAGCCAATAAAACATTACCAA TTGTGTAAAATGAACATTACTTGGCCAT ATCAATTTAAACAACCAAATACCGAACT AAAATCTCTTTCCTATTGCAATTTCAGAT AGTCCTCCTTCCTTTATTAATACAAACAG CTATGAAACTAAGCCATTAAATCATTAC AA
488	Amaranthus rudis	PPOX_B20_1 6	gDNA Contig	2626	282 5	GTAAGTATGCGACTCAAATTTAATCAAG TATAACTTATTGAAACATAAATAAATATC CATTAGGTTTGGCTCTGTGTTTGCTGGA CTAATTCAATCAACATTGTTATCTAAGAA GGAAAAGGGTGGAGAAAATGCTTCTAT TAAGAAGCCTCGTGTACGTGGTTCATTT TCATTTCAAGGTGGAATGCAGGTATAAA CTT
489	Amaranthus rudis	PPOX_B20_1 6	gDNA Contig	2626	282 5	AAGTTTATACCTGCATTCCACCTTGAAAT GAAAATGAACCACGTACACGAGGCTTCT TAATAGAAGCATTTTCTCCACCCTTTTCC TTCTTAGATAACAATGTTGATTGAATTAG

						TCCAGCAAACACAGAGCCAAACCTAATG GATATTTATTTATGTTTCAATAAGTTATA CTTGATTAAATTTGAGTCGCATACTTAC
490	Amaranthus rudis	PPOX_B20_17	gDNA Contig	2801	3000	CAAGGTGGAATGCAGGTATAAACTTGTA GCCATAATTTCACTTTTTATACCTTATACT TCCAAAATATATTGATGCGTTTTTCTTGC TACAAAGTACAAACACAAAAGCTTTGGG AATAATTCTCAATTTTGTCAAATCTACTA AAAATATTCTATTAGGAATCAAGGTTTCT ATTTTAGAATATATGGATGAAGACATG
491	Amaranthus rudis	PPOX_B20_17	gDNA Contig	2801	3000	CATGTCTTCATCCATATATTCTAAAATAG AAACCTTGATTCCTAATAGAATATTTTTA GTAGATTTGACAAAATTGAGAATTATTC CCAAAGCTTTTGTGTTTGTACTTTGTAGC AAGAAAAACGCATCAATATATTTTGGAA GTATAAGGTATAAAAAGTGAAATTATGG CTACAAGTTTATACCTGCATTCCACCTTG
492	Amaranthus rudis	PPOX_B20_18	gDNA Contig	2976	3175	TTTAGAATATATGGATGAAGACATGTAG AAGTGTGAATAAAAAAACCTAGATGTG AAAGGTTTTTAGTCTATTAAACAAGAAT ATTAGAATTCAGAGTCGTTTCATCAATA AAATATTGTTGAAGAGGAGCAATTACAT TCTGCTTCAAGCAAAGGCAATCTTAAGA GGACCCTAAAACTTGAGGAGGTATGAG AACTTA
493	Amaranthus rudis	PPOX_B20_18	gDNA Contig	2976	3175	TAAGTTCTCATACCTCCTCAAGTTTTAGG GTCCTCTTAAGATTGCCTTTGCTTGAAGC AGAATGTAATTGCTCCTCTTCAACAATAT TTTATTGATGAAACGACTCTGAATTCTAA TATTCTTGTTTAATAGACTAAAAACCTTT CACATCTAGGTTTTTTTATTCACACTTCTA CATGTCTTCATCCATATATTCTAAA
494	Amaranthus rudis	PPOX_B20_19	gDNA Contig	3151	3350	AAACTTGAGGAGGTATGAGAACTTAGA GGCCAAAGAAATTAAATTTGATGAAGA GATTTGGTGAGATACCTTGCTTACAAAA ATGATTAATTTTCCCCTTAGACACCTCAA ATTATGACATTTATAAGTTCTCCATGCGT ATTCGACAAGATGTTACATCCTATATTCT AAATTAAGTATGAAATTTGTATATGTGT AAG
495	Amaranthus rudis	PPOX_B20_19	gDNA Contig	3151	3350	CTTACACATATACAAATTTCATACTTAAT TTAGAATATAGGATGTAACATCTTGTCG AATACGCATGGAGAACTTATAAATGTCA TAATTTGAGGTGTCTAAGGGGAAAATTA ATCATTTTTGTAAGCAAGGTATCTCACCA AATCTCTTCATCAAATTTAATTTCTTTGG CCTCTAAGTTCTCATACCTCCTCAAGTTT

496	Amaranthus rudis	PPOX_B20_20	gDNA Contig	3326	3525	AGTATGAAATTTGTATATGTGTAAGAAAGAAAAGTTAGTCCCTTGAATTCCATGTCTACGACCTCAAAGTGTTCATACCATTGAAATTAGCGAGCTTACGATTGTTAAGAAAGGATCAACTTGTCATCATTGATCATTGATGAAGTGTGTAATAGACATACTAGGTGAAATTCAAAAGGGATCTACTCAGTCTTTGAGTT
497	Amaranthus rudis	PPOX_B20_20	gDNA Contig	3326	3525	AACTCAAAGACTGAGTAGATCCCTTTTGAATTTCACCTAGTATGTCTATTACACACTTCATCAATGATCAATGATGACAAGTTGATCCTTTCTTAACAATCGTAAGCTCGCTAATTTCAATGGTATGAACACTTTGAGGTCGTAGACATGGAATTCAAGGGACTAACTTTTCTTTCTTACACATATACAAATTTCATACT
498	Amaranthus rudis	PPOX_B20_21	gDNA Contig	3501	3700	AAGGGATCTACTCAGTCTTTGAGTTTACCGTTTGCTTCTAGTATTTTGCTATTTATAGGCACTATCAAAGGGTTCAATATTGTTTTTTCTGAACATTGTTGCCGAATTGTGAAGGGAGAATGATGGTAGATTTCTCTTATTTTTATGAGAAAATTCTCTTTATAAAGAGTTCGATAGCTCAAAAATGAAAGCTTATTGCC
499	Amaranthus rudis	PPOX_B20_21	gDNA Contig	3501	3700	GGCAATAAGCTTTCATTTTTGAGCTATCGAACTCTTTATAAAGAGAATTTTCTCATAAAAATAAGAGAAATCTACCATCATTCTCCCTTCACAATTCGGCAACAATGTTCAGAAAAAACAATATTGAACCCTTTGATAGTGCCTATAAATAGCAAAATACTAGAAGCAAACGGTAAACTCAAAGACTGAGTAGATCCCTT
500	Amaranthus rudis	PPOX_B20_22	gDNA Contig	3676	3875	AGCTCAAAAATGAAAGCTTATTGCCAAAAGTGGATGGGGTAGATGAAGGAGAAATGCAATCAATTTTGGTAGGCTTGACTTTGAGTAAAGAATTTGTGGAATAAGGTAGAAAAATAGGATTTGGCTGCATGATATTGAAACCTTTTGCTACTTTTCTTTTTGTTTTGGTTGCAATGCACAGAAAGGCAGGACGGTAAAGT
501	Amaranthus rudis	PPOX_B20_22	gDNA Contig	3676	3875	ACTTTACCGTCCTGCCTTTCTGTGCATTGCAACCAAAACAAAAAGAAAAGTAGCAAAAGGTTTCAATATCATGCAGCCAAATCCTATTTTTCTACCTTATTCCACAAATTCTTTACTCAAAGTCAAGCCTACCAAAATTGATTGCATTTCTCCTTCATCTACCCCATCCACTTTTGGCAATAAGCTTTCATTTTTGAGCT
502	Amaranthus	PPOX_B20_2	gDNA	3851	405	GCACAGAAAGGCAGGACGGTAAAGTGT

	rudis	3	Contig		0	GATAAAATGGATGGGAAAAATTGCTAG AATAGAATAGAAGAAAAATAATGGCAG GATGTATCCTTTGTTACCCTAGTTTCGAC AACTGTGTTACGTCGGTATTATCGGTGG CTTGGACTGAGTCATCATAGAAATTCTTC TCTGATATAGTTTAGATGAAATTTTTAAA ATTT
503	Amaranthus rudis	PPOX_B20_23	gDNA Contig	3851	4050	AAATTTTAAAAATTTCATCTAAACTATAT CAGAGAAGAATTTCTATGATGACTCAGT CCAAGCCACCGATAATACCGACGTAACA CAGTTGTCGAAACTAGGGTAACAAAGG ATACATCCTGCCATTATTTTTCTTCTATTC TATTCTAGCAATTTTTCCCATCCATTTTAT CACACTTTACCGTCCTGCCTTTCTGTGC
504	Amaranthus rudis	PPOX_B20_24	gDNA Contig	4026	4225	AGTTTAGATGAAATTTTTAAAATTTAAGC AGGCCTGAATTTTGATAAAGATAGCATG ATCTAAAGAAGGCAGCTCTAATAAATCA ACATAAAATTTGATATTAAGTAGTCTCTG TCTAGGCCTGCTTTCCGAGCTAGTATATT AACTGAGTACATGTTATTAGAGCAATAG CATAGGAGTCATGTTTTTGCATACTGATT
505	Amaranthus rudis	PPOX_B20_24	gDNA Contig	4026	4225	AATCAGTATGCAAAAACATGACTCCTAT GCTATTGCTCTAATAACATGTACTCAGTT AATATACTAGCTCGGAAAGCAGGCCTAG ACAGAGACTACTTAATATCAAATTTTATG TTGATTTATTAGAGCTGCCTTCTTTAGAT CATGCTATCTTTATCAAAATTCAGGCCTG CTTAAATTTTAAAAATTTCATCTAAACT
506	Amaranthus rudis	PPOX_B20_25	gDNA Contig	4201	4400	GGAGTCATGTTTTTGCATACTGATTAGC ATGTCAATTTTATTCCATTTGCTGAGTAC TGTATGTTCTGCAGACACTTGTTGACAC AATGTGCAAACAGCTTGGTGAAGATGA ACTCAAACTCCAGTGTGAGGTGCTGTCC TTGTCATATAACCAGAAGGGGATCCCCT CATTAGGGAATTGGTCAGTCTCTTCTAT GTCA
507	Amaranthus rudis	PPOX_B20_25	gDNA Contig	4201	4400	TGACATAGAAGAGACTGACCAATTCCCT AATGAGGGGATCCCCTTCTGGTTATATG ACAAGGACAGCACCTCACACTGGAGTTT GAGTTCATCTTCACCAAGCTGTTTGCACA TTGTGTCAACAAGTGTCTGCAGAACATA CAGTACTCAGCAAATGGAATAAAATTGA CATGCTAATCAGTATGCAAAAACATGAC TCC
508	Amaranthus rudis	PPOX_B20_26	gDNA Contig	4376	4575	GAATTGGTCAGTCTCTTCTATGTCAAATA ATACCAGTGAAGATCAATCTTATGATGC TGTGGTTGTCACTGTGAGTTTTTGTCTAC

						TTTTGTCTCTATGAGCATGCAATTCCTTT CACAGCCGTTGAGTTAGCAATTATATTC CAGTTTGAAACTTAAAGTTTTTTGGGGG AATTTTTCTAGCATTCAAGTCAATCAAGG
509	Amaranthus rudis	PPOX_B20_26	gDNA Contig	4376	4575	CCTTGATTGACTTGAATGCTAGAAAAAT TCCCCCAAAAAACTTTAAGTTTCAAACTG GAATATAATTGCTAACTCAACGGCTGTG AAAGGAATTGCATGCTCATAGAGACAA AAGTAGACAAAAACTCACAGTGACAACC ACAGCATCATAAGATTGATCTTCACTGG TATTATTTGACATAGAAGAGACTGACCA ATTC
510	Amaranthus rudis	PPOX_B20_27	gDNA Contig	4551	4750	TTTCTAGCATTCAAGTCAATCAAGGCTTA TTTGGAACTCAAAGCTTTATCTATGTTAT ATGAAACTACAATAAAATGATTTCTAAA AAATTAATTGCGAATAGCGGAGATTCAA TTAGGGTGTATAATTGATCCACATCAAA TAGCATGCATTCTACATGTTAGTCACTTG TGGCTTCTCTAGTCCTCTGTCTCCAGAAA
511	Amaranthus rudis	PPOX_B20_27	gDNA Contig	4551	4750	TTTCTGGAGACAGAGGACTAGAGAAGC CACAAGTGACTAACATGTAGAATGCATG CTATTTGATGTGGATCAATTATACACCCT AATTGAATCTCCGCTATTCGCAATTAATT TTTTAGAAATCATTTTATTGTAGTTTCAT ATAACATAGATAAAGCTTTGAGTTCCAA ATAAGCCTTGATTGACTTGAATGCTAGA AA
512	Amaranthus rudis	PPOX_B20_28	gDNA Contig	4726	4925	TTCTCTAGTCCTCTGTCTCCAGAAAAAGC CTGCATACAAAGGCTCATGAAGACTAGT ATGCTATATACTTTCCGAAATGTCAGCAT TAAGTAACTTGTGTTGAGGAAATATGTA AATCGTACCCTGTTACCCTCTTTTTAAAG AGTGATTTTTTTTTTAATTGAATGTGGTT ATAGCTATCTGGTTTGATGAAGATTTAC
513	Amaranthus rudis	PPOX_B20_28	gDNA Contig	4726	4925	GTAAATCTTCATCAAACCAGATAGCTAT AACCACATTCAATTAAAAAAAAAATCAC TCTTTAAAAAGAGGGTAACAGGGTACG ATTTACATATTTCCTCAACACAAGTTACT TAATGCTGACATTTCGGAAAGTATATAG CATACTAGTCTTCATGAGCCTTTGTATGC AGGCTTTTTCTGGAGACAGAGGACTAGA GAA
514	Amaranthus rudis	PPOX_B20_29	gDNA Contig	4901	5100	GCTATCTGGTTTGATGAAGATTTACCATT CTTAATGAAGCAAAAAATTTTAAGTTCA CAAGTTTCAATTATATTAGGCATTTAGGC TGCTATACAGTGAATTGGCTCGATAAAT TTTGCGCATGTCTTATTTATGTGAATTGT

						AGATAACGTTTGCTACAAAGGGTCAATC AAGAACAACCTTTTCATTTTTGTAAGGAT
515	Amaranthus rudis	PPOX_B20_29	gDNA Contig	4901	5100	ATCCTTACAAAAATGAAAAGGTTGTTCT TGATTGACCCTTTGTAGCAAACGTTATCT ACAATTCACATAAATAAGACATGCGCAA AATTTATCGAGCCAATTCACTGTATAGC AGCCTAAATGCCTAATATAATTGAAACT TGTGAACTTAAAATTTTTTGCTTCATTAA GAATGGTAAATCTTCATCAAACCAGATA GC
516	Amaranthus rudis	PPOX_B20_30	gDNA Contig	5076	5275	ACAACCTTTTCATTTTTGTAAGGATAACT CCTAAATTCTGCCTAGGTTGGAGGATAT GTGGAAGTCACTTAATGGCAATAGGACT GAAATATTGTTGAATATGGTTATCTAGT ACCAATTCACACTTGTATACATGAGTAC ATGTCTAATGCTCTTTGTTGTGATTTACT TAAACAAGAATTATGTTCATTAGCAGGC TT
517	Amaranthus rudis	PPOX_B20_30	gDNA Contig	5076	5275	AAGCCTGCTAATGAACATAATTCTTGTTT AAGTAAATCACAACAAAGAGCATTAGAC ATGTACTCATGTATACAAGTGTGAATTG GTACTAGATAACCATATTCAACAATATTT CAGTCCTATTGCCATTAAGTGACTTCCAC ATATCCTCCAACCTAGGCAGAATTTAGG AGTTATCCTTACAAAAATGAAAAGGTTG T
518	Amaranthus rudis	PPOX_B20_31	gDNA Contig	5251	5450	AAGAATTATGTTCATTAGCAGGCTTTCAT GCTCTCTGTACAGCACCTTATCTTTCCTT TACCACGATACTATTTGTCTTGTTTAATT ATACATATATCATAAATGTTTCGACATTC GGTCTAAAATATTTTGGATGGGTGTATA CTGTTTAATGCAACAATATGTAAAATAG ATACATAAAGAAAAGTAAAAGGAATAA T
519	Amaranthus rudis	PPOX_B20_31	gDNA Contig	5251	5450	ATTATTCCTTTTACTTTTCTTTATGTATCT ATTTTACATATTGTTGCATTAAACAGTAT ACACCCATCCAAAATATTTTAGACCGAA TGTCGAAACATTTATGATATATGTATAAT TAAACAAGACAAATAGTATCGTGGTAAA GGAAAGATAAGGTGCTGTACAGAGAGC ATGAAAGCCTGCTAATGAACATAATTCT T
520	Amaranthus rudis	PPOX_B20_32	gDNA Contig	5426	5625	CATAAAGAAAAGTAAAAGGAATAATGA ATTACAAAAAATACGATGAAAATTGAAA ATGGATGTTGTATTTCAAAAGGAGGTTA AAGGAGTGATTTGCTTCCAAAGTAGAAA TCATTCCGAGTTCGTAGATTGTTTTAAGA

						ATACCGAGTGTAGTATGGATTATGGTGG ACAAAATTTTCTATAATATTTTTTCATAA ACA
521	Amaranthus rudis	PPOX_B20_32	gDNA Contig	5426	5625	TGTTTATGAAAAAATATTATAGAAAATTT TGTCCACCATAATCCATACTACACTCGGT ATTCTTAAAACAATCTACGAACTCGGAA TGATTTCTACTTTGGAAGCAAATCACTCC TTTAACCTCCTTTTGAAATACAACATCCA TTTTCAATTTTCATCGTATTTTTTGTAATT CATTATTCCTTTTACTTTTCTTTATG
522	Amaranthus rudis	PPOX_B18_1	cDNA Contig	1	200	GAGAGAGTGCGAGAGAGATGAGTGCG ATGGCGTTATCGAGCAGCATTCTACAAT GTCCGCCGCACTCCGACATCTCGTTCCG CTTTTTTGCTCATACACGAACCCAATCCC CCATCTTCTTCGGAAGACCACGAAAATT ATCATATATCCATTGTTCCACAAGCTCAA GCTCAACTGCCAATTACCAGAACACCAT TACG
523	Amaranthus rudis	PPOX_B18_1	cDNA Contig	1	200	CGTAATGGTGTTCTGGTAATTGGCAGTT GAGCTTGAGCTTGTGGAACAATGGATAT ATGATAATTTTCGTGGTCTTCCGAAGAA GATGGGGGATTGGGTTCGTGTATGAGC AAAAAAGCGGAACGAGATGTCGGAGTG CGGCGGACATTGTAGAATGCTGCTCGAT AACGCCATCGCACTCATCTCTCTCGCACT CTCTC
524	Amaranthus rudis	PPOX_B18_2	cDNA Contig	176	375	TGCCAATTACCAGAACACCATTACGAGC CAAGGAGAAGGAGATAAAGTATTAGAT TGTGTAATTGTTGGAGCTGGTATCAGTG GACTTTGCATTGCTCAGGCTCTTTCTACC AAACACATTCAATCCAATCTCAATTTCAT TGTCACTGAAGCTAAACATCGTGTTGGA GGTAATATCACTACCATGGAGTCCGATG GCT
525	Amaranthus rudis	PPOX_B18_2	cDNA Contig	176	375	AGCCATCGGACTCCATGGTAGTGATATT ACCTCCAACACGATGTTTAGCTTCAGTG ACAATGAAATTGAGATTGGATTGAATGT GTTTGGTAGAAAGAGCCTGAGCAATGC AAAGTCCACTGATACCAGCTCCAACAAT TACACAATCTAATACTTTATCTCCTTCTCC TTGGCTCGTAATGGTGTTCTGGTAATTG GCA
526	Amaranthus rudis	PPOX_B18_3	cDNA Contig	351	550	ATCACTACCATGGAGTCCGATGGCTATA TCTGGGAAGAGGGTCCTAATAGTTTCCA ACCCTCCGATCCTGTGCTTACTATGGCG GTTGACAGTGGATTGAAAGACGATTTG GTCTTGGGAGATCCTAATGCCCCTCGTTT

						CGTGCTCTGGAATGGTAAATTAAGGCCT GTTCCTTCCAAACCTACGGACCTTCCCTT TTT
527	Amaranthus rudis	PPOX_B18_3	cDNA Contig	351	550	AAAAAGGGAAGGTCCGTAGGTTTGGAA GGAACAGGCCTTAATTTACCATTCCAGA GCACGAAACGAGGGGCATTAGGATCTC CCAAGACCAAATCGTCTTTCAATCCACTG TCAACCGCCATAGTAAGCACAGGATCGG AGGGTTGGAAACTATTAGGACCCTCTTC CCAGATATAGCCATCGGACTCCATGGTA GTGAT
528	Amaranthus rudis	PPOX_B18_4	cDNA Contig	526	725	CCAAACCTACGGACCTTCCCTTTTTTGAT CTCATGAGCTTTCCTGGTAAGATTAGGG CTGGTCTTGGTGCACTTGGTCTTCGTCCT CCTCCTCCTCCTCCTTCTTATGAGGAATC TGTTGAAGAATTTGTGCGCCGTAATCTC GGCGATGAGGTCTTCGAACGCTTGATCG AACCCTTTTGTTCTGGTGTCTATGCTGGT
529	Amaranthus rudis	PPOX_B18_4	cDNA Contig	526	725	ACCAGCATAGACACCAGAACAAAAGGG TTCGATCAAGCGTTCGAAGACCTCATCG CCGAGATTACGGCGCACAAATTCTTCAA CAGATTCCTCATAAGAAGGAGGAGGAG GAGGAGGACGAAGACCAAGTGCACCAA GACCAGCCCTAATCTTACCAGGAAAGCT CATGAGATCAAAAAAGGGAAGGTCCGT AGGTTTGG
530	Amaranthus rudis	PPOX_B18_5	cDNA Contig	701	900	CTTTTGTTCTGGTGTCTATGCTGGTGATC CTGCAAAGTTGAGTATGAAAGCTGCATT TGGAAAGGTCTGGACCTTAGAGCAAAA GGGTGGTAGTATCATCGCCGGTACACTC AAAACTATTCAGGAAAGGAAGAATAATC CTCCACCCCCTCGAGACCCCCGCCTTCCT AAACCTAAGGGCCAGACTGTTGGATCCT TTA
531	Amaranthus rudis	PPOX_B18_5	cDNA Contig	701	900	TAAAGGATCCAACAGTCTGGCCCTTAGG TTTAGGAAGGCGGGGGTCTCGAGGGGG TGGAGGATTATTCTTCCTTTCCTGAATAG TTTTGAGTGTACCGGCGATGATACTACC ACCCTTTTGCTCTAAGGTCCAGACCTTTC CAAATGCAGCTTTCATACTCAACTTTGCA GGATCACCAGCATAGACACCAGAACAA AAG
532	Amaranthus rudis	PPOX_B18_6	cDNA Contig	876	1075	AAGGGCCAGACTGTTGGATCCTTTAGGA AAGGGCTCATTATGTTACCTACCGCCATT GCTGCTAGGCTTGGCAGTAAAGTCAAAC TATCGTGGACACTTTCTAATATTGATAAG TCGCTCAATGGTGAATACATTCTCACTTA

						TCAAACACCCGATGGACCGGTTTCTGTT AGGACCAAAGCGGTTGTCATGACTGTCC C
533	Amaranthus rudis	PPOX_B18_6	cDNA Contig	876	1075	GGGACAGTCATGACAACCGCTTTGGTCC TAACAGAAACCGGTCCATCGGGTGTTTG ATAAGTGAGAATGTATTCACCATTGAGC GACTTATCAATATTAGAAAGTGTCCACG ATAGTTTGACTTTACTGCCAAGCCTAGC AGCAATGGCGGTAGGTAACATAATGAG CCCTTTCCTAAAGGATCCAACAGTCTGG CCCTT
534	Amaranthus rudis	PPOX_B16_1	cDNA Contig	1	200	GCGAGAGAGATGAGTGCGATGGCGTTA TCGAGCAGCATTCTACAATGTCCGCCGC ACTCCGACATCTCGTTCCGCTTTTTTGCT CATACACGAACCCAATCCCCCATCTTCTT CGGAAGACCACGAAAATTATCATATATC CATTGTTCCACAAGCTCAAGCTCAACTG CCAATTACCAGAACACCATTACGAGCCA AGG
535	Amaranthus rudis	PPOX_B16_1	cDNA Contig	1	200	CCTTGGCTCGTAATGGTGTTCTGGTAAT TGGCAGTTGAGCTTGAGCTTGTGGAACA ATGGATATATGATAATTTTCGTGGTCTTC CGAAGAAGATGGGGGATTGGGTTCGTG TATGAGCAAAAAAGCGGAACGAGATGT CGGAGTGCGGCGGACATTGTAGAATGC TGCTCGATAACGCCATCGCACTCATCTCT CTCGC
536	Amaranthus rudis	PPOX_B16_2	cDNA Contig	176	375	ACCAGAACACCATTACGAGCCAAGGAG AAGGAGATAAAGTATTAGATTGTGTAAT TGTTGGAGCTGGTATCAGTGGACTTTGC ATTGCTCAGGCTCTTTCTACCAAACACAT TCAATCCAATCTCAATTTCATTGTCACTG AAGCTAAACATCGTGTTGGAGGTAATAT CACTACCATGGAGTCCGATGGCTATATC TGG
537	Amaranthus rudis	PPOX_B16_2	cDNA Contig	176	375	CCAGATATAGCCATCGGACTCCATGGTA GTGATATTACCTCCAACACGATGTTTAG CTTCAGTGACAATGAAATTGAGATTGGA TTGAATGTGTTTGGTAGAAAGAGCCTGA GCAATGCAAAGTCCACTGATACCAGCTC CAACAATTACACAATCTAATACTTTATCT CCTTCTCCTTGGCTCGTAATGGTGTTCTG GT
538	Amaranthus rudis	PPOX_B16_3	cDNA Contig	351	550	CATGGAGTCCGATGGCTATATCTGGGAA GAGGGTCCTAATAGTTTCCAACCCTCCG ATCCTGTGCTTACTATGGCGGTTGACAG TGGATTGAAAGACGATTTGGTCTTGGGA

						GATCCTAATGCCCCTCGTTTCGTGCTCTG GAATGGTAAATTAAGGCCTGTTCCTTCC AAACCTACGGACCTTCCCTTTTTTGATCT CA
539	Amaranthus rudis	PPOX_B16_3	cDNA Contig	351	550	TGAGATCAAAAAAGGGAAGGTCCGTAG GTTTGGAAGGAACAGGCCTTAATTTACC ATTCCAGAGCACGAAACGAGGGGCATT AGGATCTCCCAAGACCAAATCGTCTTTC AATCCACTGTCAACCGCCATAGTAAGCA CAGGATCGGAGGGTTGGAAACTATTAG GACCCTCTTCCCAGATATAGCCATCGGA CTCCATG
540	Amaranthus rudis	PPOX_B16_4	cDNA Contig	526	725	ACGGACCTTCCCTTTTTTGATCTCATGAG CTTTCCTGGTAAGATTAGGGCTGGTCTT GGTGCACTTGGTCTTCGTCCTCCTCCTCC TCCTCCTTCTTATGAGGAATCTGTTGAAG AATTTGTGCGCCGTAATCTCGGCGATGA GGTCTTCGAACGCTTGATCGAACCCTTTT GTTCTGGTGTCTATGCTGGTGATCCTGC
541	Amaranthus rudis	PPOX_B16_4	cDNA Contig	526	725	GCAGGATCACCAGCATAGACACCAGAA CAAAAGGGTTCGATCAAGCGTTCGAAG ACCTCATCGCCGAGATTACGGCGCACAA ATTCTTCAACAGATTCCTCATAAGAAGG AGGAGGAGGAGGAGGACGAAGACCAA GTGCACCAAGACCAGCCCTAATCTTACC AGGAAAGCTCATGAGATCAAAAAAGGG AAGGTCCGT
542	Amaranthus rudis	PPOX_B16_5	cDNA Contig	701	900	CTGGTGTCTATGCTGGTGATCCTGCAAA GTTGAGTATGAAAGCTGCATTTGGAAAG GTCTGGACCTTAGAGCAAAAGGGTGGT AGTATCATAGCCGGTACACTCAAAACTA TTCAGGAAAGGAAAAATAATCCTCTACC CCCTCGAGACCCCCGCCTTCCTAAACCTA AGGGCCAGACTGTTGGATCCTTTAGGAA AGGG
543	Amaranthus rudis	PPOX_B16_5	cDNA Contig	701	900	CCCTTTCCTAAAGGATCCAACAGTCTGG CCCTTAGGTTTAGGAAGGCGGGGGTCTC GAGGGGGTAGAGGATTATTTTTCCTTTC CTGAATAGTTTTGAGTGTACCGGCTATG ATACTACCACCCTTTTGCTCTAAGGTCCA GACCTTTCCAAATGCAGCTTTCATACTCA ACTTTGCAGGATCACCAGCATAGACACC AG
544	Amaranthus rudis	PPOX_B16_6	cDNA Contig	876	1075	GACTGTTGGATCCTTTAGGAAAGGGCTC ATTATGTTACCTACCGCCATTGCTGCTAG GCTTGGCAGTAAAGTCAAACTATCGTGG ACACTTTCTAATATTGATAAGTCGCTCAA

						TGGAGAATACAATCTCACTTATCAAACA CCCGATGGACCGGTTTCTGTTAGGACCA AAGCGGTTGTCATGACCGTCCCTTCGTA CA
545	Amaranthus rudis	PPOX_B16_6	cDNA Contig	876	1075	TGTACGAAGGGACGGTCATGACAACCG CTTTGGTCCTAACAGAAACCGGTCCATC GGGTGTTTGATAAGTGAGATTGTATTCT CCATTGAGCGACTTATCAATATTAGAAA GTGTCCACGATAGTTTGACTTTACTGCCA AGCCTAGCAGCAATGGCGGTAGGTAAC ATAATGAGCCCTTTCCTAAAGGATCCAA CAGTC
546	Amaranthus rudis	PPOX_B16_7	cDNA Contig	1051	1250	GTTGTCATGACCGTCCCTTCGTACATTGC AAGTAGCTTGCTTCGTCCGCTCTCAGAT GTTGCTGCAGATTCTCTTTCTAAATTTTA CTATCCACCAGTCGCAGCAGTGTCCCTTT CTTATCCCAAAGAAGCAATTAGACCAGA ATGCTTGATTGATGGAGAACTAAAAGG ATTCGGGCAATTGCATCCCCGCAGCCAG GG
547	Amaranthus rudis	PPOX_B16_7	cDNA Contig	1051	1250	CCCTGGCTGCGGGGATGCAATTGCCCGA ATCCTTTTAGTTCTCCATCAATCAAGCAT TCTGGTCTAATTGCTTCTTTGGGATAAGA AAGGGACACTGCTGCGACTGGTGGATA GTAAAATTTAGAAAGAGAATCTGCAGCA ACATCTGAGAGCGGACGAAGCAAGCTA CTTGCAATGTACGAAGGGACGGTCATG ACAAC
548	Amaranthus rudis	PPOX_B16_8	cDNA Contig	1226	1425	GGCAATTGCATCCCCGCAGCCAGGGTGT GGAAACCTTGGGTACAATTTATAGTTCA TCTCTTTTCCCTGGTCGAGCACCACCCGG TAGGACCTTGATCTTGAGCTACATTGGA GGTGCTACAAATCTTGGCATATTACAAA AGAGTGAAGATGAACTTGCGGAGACAG TTGATAAGGATCTCAGAAAAATTCTGAT AAAT
549	Amaranthus rudis	PPOX_B16_8	cDNA Contig	1226	1425	ATTTATCAGAATTTTTCTGAGATCCTTAT CAACTGTCTCCGCAAGTTCATCTTCACTC TTTTGTAATATGCCAAGATTTGTAGCACC TCCAATGTAGCTCAAGATCAAGGTCCTA CCGGGTGGTGCTCGACCAGGGAAAAGA GATGAACTATAAATTGTACCCAAGGTTT CCACACCCTGGCTGCGGGGATGCAATTG CC
550	Amaranthus rudis	PPOX_B16_9	cDNA Contig	1401	1600	GGATCTCAGAAAAATTCTGATAAATCCA AATGCGAAAGGCAGCCGTGTTCTGGGA GTGAGAGTATGGCCAAAGGCAATCCCC

						CAATTTTTAGTTGGTCACTTTGATGTGCT AGATGCTGCAAAAGCTGGTTTGGCAAAT GCTGGGCTAAAGGGGTTGTTTCTTGGTG GTAATTATGTATCAGGTGTTGCCTTGGG GAGGT
551	Amaranthus rudis	PPOX_B16_9	cDNA Contig	1401	1600	ACCTCCCCAAGGCAACACCTGATACATA ATTACCACCAAGAAACAACCCCTTTAGC CCAGCATTTGCCAAACCAGCTTTTGCAG CATCTAGCACATCAAAGTGACCAACTAA AAATTGGGGGATTGCCTTTGGCCATACT CTCACTCCCAGAACACGGCTGCCTTTCG CATTTGGATTTATCAGAATTTTTCTGAGA TCC
552	Amaranthus rudis	PPOX_B16_10	cDNA Contig	1576	1775	GTATCAGGTGTTGCCTTGGGGAGGTGTA TAGAGGGTGCTTATGACTCTGCTTCTGA GGTAGTGGATTTCCTCTCACAGTACAAA GATAAGTAGTCAATAGGGCTCCAGCATC TTGGTTAAGTAACTTTTTGTAGCTGTTGT AATTTGGAAAGATGTAAAATAGCCCACA CTCAAACAAGTTTGGAAAGATGTAAAAG CAT
553	Amaranthus rudis	PPOX_B16_10	cDNA Contig	1576	1775	ATGCTTTTACATCTTTCCAAACTTGTTTG AGTGTGGGCTATTTTACATCTTTCCAAAT TACAACAGCTACAAAAAGTTACTTAACC AAGATGCTGGAGCCCTATTGACTACTTA TCTTTGTACTGTGAGAGGAAATCCACTA CCTCAGAAGCAGAGTCATAAGCACCCTC TATACACCTCCCCAAGGCAACACCTGAT AC
554	Amaranthus rudis	PPOX_B19_1	cDNA Contig	1	200	GGCCAGGGTGTGGAAACCTTGGGAACA ATTTATAGTTCATCTCTTTTCCCTGGTCG AGCACCACCCGGTAGGACCTTGATCTTG AGCTACATTGGAGGTGCTACAAATCTTG GCATATTACAAAAGAGTGAAGATGAACT TGCGGAGACAGTTGATAAGGATCTCAG AAAAATTCTGATAAATCCAAATGCGAAA GGCAG
555	Amaranthus rudis	PPOX_B19_1	cDNA Contig	1	200	CTGCCTTTCGCATTTGGATTTATCAGAAT TTTTCTGAGATCCTTATCAACTGTCTCCG CAAGTTCATCTTCACTCTTTTGTAATATG CCAAGATTTGTAGCACCTCCAATGTAGC TCAAGATCAAGGTCCTACCGGGTGGTGC TCGACCAGGGAAAAGAGATGAACTATA AATTGTTCCCAAGGTTTCCACACCCTGGC C
556	Amaranthus rudis	PPOX_B19_2	cDNA Contig	176	375	TGATAAATCCAAATGCGAAAGGCAGCC GTGTTCTGGGAGTGAGAGTATGGCCAA

						AGGCAATCCCCCAATTTTTAGTTGGTCAC TTTGATGTGCTAGATGCTGCAAAAGCTG GTTTGGCAAATGCTGGGCTAAAGGGGT TGTTTCTTGGTGGTAATTATGTATCAGGT GTTGCCTTGGGGAGGTGTATAGAGGGT GCTTAT
557	Amaranthus rudis	PPOX_B19_2	cDNA Contig	176	375	ATAAGCACCCTCTATACACCTCCCCAAG GCAACACCTGATACATAATTACCACCAA GAAACAACCCCTTTAGCCCAGCATTTGC CAAACCAGCTTTTGCAGCATCTAGCACA TCAAAGTGACCAACTAAAAATTGGGGGG ATTGCCTTTGGCCATACTCTCACTCCCAG AACACGGCTGCCTTTCGCATTTGGATTTA TCA
558	Amaranthus rudis	PPOX_B19_3	cDNA Contig	351	550	GGGGAGGTGTATAGAGGGTGCTTATGA CTCTGCTTCTGAGGTAGTGGATTTCCTCT CACAGTACAAAGATAAGTAGTCAATAG GGCTCCAGCATCTTGGTTAAGTAACTTTT TGTAGCTGTTGTAATTTGGAAAGATGTA AAATAGCCCACACTCAAACAAGTTTGGA AAGATGTAAAAGCATGAGATACAGTCG GTGTT
559	Amaranthus rudis	PPOX_B19_3	cDNA Contig	351	550	AACACCGACTGTATCTCATGCTTTTACAT CTTTCCAAACTTGTTTGAGTGTGGGCTAT TTTACATCTTTCCAAATTACAACAGCTAC AAAAAGTTACTTAACCAAGATGCTGGAG CCCTATTGACTACTTATCTTTGTACTGTG AGAGGAAATCCACTACCTCAGAAGCAG AGTCATAAGCACCCTCTATACACCTCCCC
560	Amaranthus rudis	PPOX_B23_1	gDNA Contig	1	200	GTCTTGGGAGATCCTAATGCCCCTCGTTT CGTGCTCTGGAATGGTAAATTAAGGCCT GTTCCTTCCAAACCTACGGACCTTCCCTT TTTTGATCTCATGAGCTTTCCTGGTAAGA TTAGGGCTGGTCTTGGTGCACTTGGTCT TCGTCCTCCTCCTCCTCCTTCTTATGA GGAATCTGTTGAAGAATTTGTGCGCCG
561	Amaranthus rudis	PPOX_B23_1	gDNA Contig	1	200	CGGCGCACAAATTCTTCAACAGATTCCT CATAAGAAGGAGGAGGAGGAGGAGGA CGAAGACCAAGTGCACCAAGACCAGCC CTAATCTTACCAGGAAAGCTCATGAGAT CAAAAAAGGGAAGGTCCGTAGGTTTGG AAGGAACAGGCCTTAATTTACCATTCCA GAGCACGAAACGAGGGGCATTAGGATC TCCCAAGAC
562	Amaranthus rudis	PPOX_B23_2	gDNA Contig	351	550	GGTGGTAGTATCATAGCCGGTACACTCA AAACTATTCAGGAAAGGAAAAATAATCC TCCACCCCCTCGAGACCCGTCCGTAATC

						ACCATTACTTATTGCTTTCCATCACCTTG AATCTTACCTTAATATACATGTATTTAAT TGATAATGTCACATTGCCTCATTTGCAGC CGCCTTCCTAAACCTAAGGGCCAGACTG T
563	Amaranthus rudis	PPOX_B23_2	gDNA Contig	351	550	ACAGTCTGGCCCTTAGGTTTAGGAAGGC GGCTGCAAATGAGGCAATGTGACATTAT CAATTAAATACATGTATATTAAGGTAAG ATTCAAGGTGATGGAAAGCAATAAGTA ATGGTGATTACGGACGGGTCTCGAGGG GGTGGAGGATTATTTTTCCTTTCCTGAAT AGTTTTGAGTGTACCGGCTATGATACTA CCACC
564	Amaranthus rudis	PPOX_B25_1	gDNA Contig	1	200	TTGATTTGAAGATAGGATAACCAGAGA GAGTGCGAGAGAGATGAGTGCGATGGC GTTATCGAGCAGCATTCTACAATGTCCG CCGCACTCCGACATCTCGTTCCGCTTTTT TGCTCATACACGAACCCAATCCCCCATCT TCTTCGGAAGACCACGAAAATTATCATA TATCCATTGTTCCACAAGCTCAAGCTCAA CTG
565	Amaranthus rudis	PPOX_B25_1	gDNA Contig	1	200	CAGTTGAGCTTGAGCTTGTGGAACAATG GATATATGATAATTTTCGTGGTCTTCCGA AGAAGATGGGGGATTGGGTTCGTGTAT GAGCAAAAAAGCGGAACGAGATGTCGG AGTGCGGCGGACATTGTAGAATGCTGCT CGATAACGCCATCGCACTCATCTCTCTCG CACTCTCTCTGGTTATCCTATCTTCAAAT CAA
566	Amaranthus rudis	PPOX_B25_2	gDNA Contig	176	375	TGTTCCACAAGCTCAAGCTCAACTGCCA ATTACCAGAACACCATTACGAGCCAAGG AGAAGGAGATAAAGTATTAGATTGTGT AATTGTTGGAGCTGGTATCAGTGGACTT TGCATTGCTCAGGCTCTTTCTACCAAACA CATTCAATCCAATCTCAATTTCATTGTCA CTGAAGCTAAACATCGTGTTGGAGGTAA TAT
567	Amaranthus rudis	PPOX_B25_2	gDNA Contig	176	375	ATATTACCTCCAACACGATGTTTAGCTTC AGTGACAATGAAATTGAGATTGGATTGA ATGTGTTTGGTAGAAAGAGCCTGAGCA ATGCAAAGTCCACTGATACCAGCTCCAA CAATTACACAATCTAATACTTTATCTCCT TCTCCTTGGCTCGTAATGGTGTTCTGGTA ATTGGCAGTTGAGCTTGAGCTTGTGGAA CA
568	Amaranthus rudis	PPOX_B21_1	gDNA Contig	1	200	TTTTAACCAATCCTCAAAATTTACACCAT GGAGATGTCTGCGGATAAGAATTAGTA

						ACTGTAGCAGCTGTAATTGTTGCATGCA GTTTTATGGTTTGCCTTGCAATTCAAACT TGGGATATTGTTTGCCTTGCAATTTGTA GTTTAGTGTTTGCCCTTCACTTTGTATTTT AGTTATTTTTTTCATTGCAATTTGCTCTT
569	Amaranthus rudis	PPOX_B21_1	gDNA Contig	1	200	AAGAGCAAATTGCAATGAAAAAAATAA CTAAAATACAAAGTGAAGGGCAAACACT AAACTACAAATTGCAAGGCAAACAATAT CCCAAGTTTGAATTGCAAGGCAAACCAT AAAACTGCATGCAACAATTACAGCTGCT ACAGTTACTAATTCTTATCCGCAGACATC TCCATGGTGTAAATTTTGAGGATTGGTT AAAA
570	Amaranthus rudis	PPOX_B21_2	gDNA Contig	176	375	ATTTTTTTCATTGCAATTTGCTCTTTGAA GTATAAAATGGTGACCTTTCTTGCTCAG GATGTTGCTGCAGATTCTCTTTCTAAATT TTACTATCCACCAGTCGCAGCAGTGTCC CTTTCTTATCCCAAAGAAGCAATTAGACC AGAATGCTTGATCGATGGAGAACTAAA AGGATTCGGGCAATTGCATCCCCGCAGC CA
571	Amaranthus rudis	PPOX_B21_2	gDNA Contig	176	375	TGGCTGCGGGGATGCAATTGCCCGAATC CTTTTAGTTCTCCATCGATCAAGCATTCT GGTCTAATTGCTTCTTTGGGATAAGAAA GGGACACTGCTGCGACTGGTGGATAGT AAAATTTAGAAAGAGAATCTGCAGCAAC ATCCTGAGCAAGAAAGGTCACCATTTTA TACTTCAAAGAGCAAATTGCAATGAAAA AAAT
572	Amaranthus rudis	PPOX_B21_3	gDNA Contig	351	550	TCGGGCAATTGCATCCCCGCAGCCAGGG TGTGGAAACCTTGGGTATATGCTCCCAT TCAACTATATCTCAATAATTATGAGTATT TTTCTTTCTCTGGATTATTCAATTTGGTG ACGTTAAATTTTGACTGTACTCGACAGG AACAATTTATAGTTCATCTCTTTTCCCTG GTCGAGCACCACCCGGTAGGACCTTGAT C
573	Amaranthus rudis	PPOX_B21_3	gDNA Contig	351	550	GATCAAGGTCCTACCGGGTGGTGCTCGA CCAGGGAAAAGAGATGAACTATAAATT GTTCCTGTCGAGTACAGTCAAAATTTAA CGTCACCAAATTGAATAATCCAGAGAAA GAAAAATACTCATAATTATTGAGATATA GTTGAATGGGAGCATATACCCAAGGTTT CCACACCCTGGCTGCGGGGATGCAATTG CCCGA
574	Amaranthus rudis	PPOX_B21_4	gDNA Contig	526	725	AGCACCACCCGGTAGGACCTTGATCTTG AGCTACATTGGAGGTGCTACAAATCTTG

						GCATATTACAAAAGGCAAGTCATTTATA CAATTATATGTGTCCTTGTATCCTCAAAT AAGTCGTATCAATCCTGACGACATGCTT CTATCAATGCAGAGTGAAGATGAACTTG CGGAGACAGTTGATAAGGATCTCAGAA AAAT
575	Amaranthus rudis	PPOX_B21_4	gDNA Contig	526	725	ATTTTTCTGAGATCCTTATCAACTGTCTC CGCAAGTTCATCTTCACTCTGCATTGATA GAAGCATGTCGTCAGGATTGATACGACT TATTTGAGGATACAAGGACACATATAAT TGTATAAATGACTTGCCTTTTGTAATATG CCAAGATTTGTAGCACCTCCAATGTAGC TCAAGATCAAGGTCCTACCGGGTGGTGC T
576	Amaranthus rudis	PPOX_B21_5	gDNA Contig	701	900	CAGTTGATAAGGATCTCAGAAAAATTCT GATAAATCCAAATGCGAAAGGCAGCCG TGTTCTGGGAGTGAGAGTATGGCCAAA GGCAATCCCCCAATTTTTAGTTGGTCACT TTGATCTGCTAGATGCTGCAAAAGCTGG TTTGGCAAATGCTGGGCTAAAGGGGTT GTTTCTTGGTGGTAATTATGTATCAGGT GTTGCC
577	Amaranthus rudis	PPOX_B21_5	gDNA Contig	701	900	GGCAACACCTGATACATAATTACCACCA AGAAACAACCCCTTTAGCCCAGCATTTG CCAAACCAGCTTTTGCAGCATCTAGCAG ATCAAAGTGACCAACTAAAAATTGGGG GATTGCCTTTGGCCATACTCTCACTCCCA GAACACGGCTGCCTTTCGCATTTGGATT TATCAGAATTTTTCTGAGATCCTTATCAA CTG
578	Amaranthus spinosus	PPOX_B26_1	cDNA Contig	1	200	AGAGAGAGTGCAAGAGAGATGAGTGCC ATGGCGTTATCGAGCAGCATTCTACAAT GTCCGCCGCACTCCGACTTCTCTTTCCGC TTTTCTGCTTATACACCAACCCGCTCCCC CTTCTTCTTCGGAAGACCTCCAAAATTAT CATATATCCATTGTTCCACAAGCTCAAGC TCAACTGCCAATTACCAGAACACGATTA C
579	Amaranthus spinosus	PPOX_B26_1	cDNA Contig	1	200	GTAATCGTGTTCTGGTAATTGGCAGTTG AGCTTGAGCTTGTGGAACAATGGATATA TGATAATTTTGGAGGTCTTCCGAAGAAG AAGGGGGAGCGGGTTGGTGTATAAGCA GAAAAGCGGAAAGAGAAGTCGGAGTG CGGCGGACATTGTAGAATGCTGCTCGAT AACGCCATGGCACTCATCTCTCTTGCACT CTCTCT
580	Amaranthus	PPOX_B26_2	cDNA	176	375	CTGCCAATTACCAGAACACGATTACGAC

	spinosus		Contig			CCAAGGAGAAGGAGATAAAGTATTGGA TTGTGTAATTGTTGGAGCTGGTATCAGT GGACTTTGCATTGCTCAAGCTCTTTCTAC CAAACACATTCAATCCAATCTCAATTTCA TTGTCACTGAAGCTAAAAACCGTGTTGG AGGTAATATCACTACCATGGAGTCCGAT GGC
581	Amaranthus spinosus	PPOX_B26_2	cDNA Contig	176	375	GCCATCGGACTCCATGGTAGTGATATTA CCTCCAACACGGTTTTTAGCTTCAGTGAC AATGAAATTGAGATTGGATTGAATGTGT TTGGTAGAAAGAGCTTGAGCAATGCAA AGTCCACTGATACCAGCTCCAACAATTA CACAATCCAATACTTTATCTCCTTCTCCTT GGGTCGTAATCGTGTTCTGGTAATTGGC AG
582	Amaranthus spinosus	PPOX_B26_3	cDNA Contig	351	550	TATCACTACCATGGAGTCCGATGGCTAT ATCTGGGAAGAGGGTCCTAATAGTTTCC AACCCTCCGATCCTGTGCTTACTATGGC GGTTGACAGTGGATTGAAAGATGATTTG GTCTTGGGAGATCCTAATGCCCCTCGTTT CGTGCTCTGGAATGGTAAATTAAGGCCT GTTCCTTCCAAACCTACGGACCTTCCCTT TT
583	Amaranthus spinosus	PPOX_B26_3	cDNA Contig	351	550	AAAAGGGAAGGTCCGTAGGTTTGGAAG GAACAGGCCTTAATTTACCATTCCAGAG CACGAAACGAGGGGCATTAGGATCTCC CAAGACCAAATCATCTTTCAATCCACTGT CAACCGCCATAGTAAGCACAGGATCGG AGGGTTGGAAACTATTAGGACCCTCTTC CCAGATATAGCCATCGGACTCCATGGTA GTGATA
584	Amaranthus spinosus	PPOX_B26_4	cDNA Contig	526	725	TCCAAACCTACGGACCTTCCCTTTTTTGA TCTCATGAGCTTTCCTGGTAAGATTAGG GCTGGTCTTGGTGCTCTTGGTCTTCGTCC TCCTCCTCCTTCTTATGAGGAGTCTGTTG AAGAATTTGTGCGCCGTAATCTCGGTGA TGAGGTTTTCGAACGCTTGATTGAACCC TTTTGTTCTGGTGTGTATGCTGGTGATCC
585	Amaranthus spinosus	PPOX_B26_4	cDNA Contig	526	725	GGATCACCAGCATACACACCAGAACAAA AGGGTTCAATCAAGCGTTCGAAAACCTC ATCACCGAGATTACGGCGCACAAATTCT TCAACAGACTCCTCATAAGAAGGAGGA GGAGGACGAAGACCAAGAGCACCAAGA CCAGCCCTAATCTTACCAGGAAAGCTCA TGAGATCAAAAAAGGGAAGGTCCGTAG GTTTGGA
586	Amaranthus	PPOX_B26_5	cDNA	701	900	GTTCTGGTGTGTATGCTGGTGATCCTTC

	spinosus		Contig			AAAGTTGAGTATGAAAGCTGCATTTGGA AAGGTCTGGACCTTAGAGCAAAAGGGT GGTAGTATCATCGCCGGTACACTCAAAA CTATTCAGGAAAGGAAGAATAATCCTCC ACCGCCTCGAGACCCCCGCCTTCCTAAA CCTAAGGGCCAGACTGTTGGATCCTTTA GGAAA
587	Amaranthus spinosus	PPOX_B26_5	cDNA Contig	701	900	TTTCCTAAAGGATCCAACAGTCTGGCCC TTAGGTTTAGGAAGGCGGGGGTCTCGA GGCGGTGGAGGATTATTCTTCCTTTCCT GAATAGTTTTGAGTGTACCGGCGATGAT ACTACCACCCTTTTGCTCTAAGGTCCAGA CCTTTCCAAATGCAGCTTTCATACTCAAC TTTGAAGGATCACCAGCATACACACCAG AAC
588	Amaranthus spinosus	PPOX_B26_6	cDNA Contig	876	1075	CCAGACTGTTGGATCCTTTAGGAAAGGG CTCATTATGTTACCTACCGCCATTGCTGC TAGGCTTGGCAGTAAAGTCAAACTATCA TGGACACTTTCTAATATTGATAAGTCGCT CAATGGTGAATACAATCTCACTTATCAA ACACCCGATGGACCGGTTTCTGTTAGGA CCAAAGCGGTTGTCATGACTGTCCCTTC AT
589	Amaranthus spinosus	PPOX_B26_6	cDNA Contig	876	1075	ATGAAGGGACAGTCATGACAACCGCTTT GGTCCTAACAGAAACCGGTCCATCGGGT GTTTGATAAGTGAGATTGTATTCACCATT GAGCGACTTATCAATATTAGAAAGTGTC CATGATAGTTTGACTTTACTGCCAAGCCT AGCAGCAATGGCGGTAGGTAACATAAT GAGCCCTTTCCTAAAGGATCCAACAGTC TGG
590	Amaranthus spinosus	PPOX_B26_7	cDNA Contig	1051	1250	GCGGTTGTCATGACTGTCCCTTCATACAT TGCAAGTAGCCTGCTTCGTCCGCTCTCA GATGTTGCTGCAGATTCTCTTTCTAAATT TTACTATCCACCAGTCGCAGCAGTGTCC CTTTCTTATCCCAAAGAAGCAATTAGACC AGAATGCTTGATCGATGGAGAACTAAA AGGATTCGGGCAATTGCATCCCCGCAGC CA
591	Amaranthus spinosus	PPOX_B26_7	cDNA Contig	1051	1250	TGGCTGCGGGGATGCAATTGCCCGAATC CTTTTAGTTCTCCATCGATCAAGCATTCT GGTCTAATTGCTTCTTTGGGATAAGAAA GGGACACTGCTGCGACTGGTGGATAGT AAAATTTAGAAAGAGAATCTGCAGCAAC ATCTGAGAGCGGACGAAGCAGGCTACT TGCAATGTATGAAGGGACAGTCATGAC AACCGC

592	Amaranthus spinosus	PPOX_B26_8	cDNA Contig	1226	1425	TCGGGCAATTGCATCCCCGCAGCCAGGGTGTGGAAACCTTGGGAACAATTTATAGTTCATCTCTTTTCCCTGGTCGAGCACCACCCGGTAGGACCTTGATCTTGAGCTACATTGGAGGTGCTACAAATGTTGGCATATTACAAAAGAGTGAAGATGAACTTGCGGAGACAGTTGACAAGGATCTCAGAAAAATTCTGATA
593	Amaranthus spinosus	PPOX_B26_8	cDNA Contig	1226	1425	TATCAGAATTTTTCTGAGATCCTTGTCAACTGTCTCCGCAAGTTCATCTTCACTCTTTTGTAATATGCCAACATTTGTAGCACCTCCAATGTAGCTCAAGATCAAGGTCCTACCGGGTGGTGCTCGACCAGGGAAAAGAGATGAACTATAAATTGTTCCCAAGGTTTCCACACCCTGGCTGCGGGGATGCAATTGCCCGA
594	Amaranthus thunbergii	PPOX_B27_1	cDNA Contig	1	200	AGAGAGTGCGAGAGAAATGAGTGCGATGGCGTTATCGAGCAGCATTCTACAATGTCCGCCGCACTCCGACATCTCGTTCCGCTTTTCTGCTCATTCACCAACCCACTCCCCCATCTTCTTCGGAAGACCACGAAAATTATCATATATCCATTGTTCCACAAGCTCAAGCTCAACTGCCAATTACCAGAACACGATTACGA
595	Amaranthus thunbergii	PPOX_B27_1	cDNA Contig	1	200	TCGTAATCGTGTTCTGGTAATTGGCAGTTGAGCTTGAGCTTGTGGAACAATGGATATATGATAATTTTCGTGGTCTTCCGAAGAAGATGGGGGAGTGGGTTGGTGAATGAGCAGAAAAGCGGAACGAGATGTCGGAGTGCGGCGGACATTGTAGAATGCTGCTCGATAACGCCATCGCACTCATTTCTCTCGCACTCTCT
596	Amaranthus thunbergii	PPOX_B27_2	cDNA Contig	176	375	GCCAATTACCAGAACACGATTACGACCCAAGGAGAAGGAGATAAAGTATTAGATTGTGTAATTGTTGGAGCTGGTATCAGTGGACTTTGCATTGCGCAGGCTCTTTCTACCAAACACATTCAATCCAATCTCAATTTCATTGTCACTGAAGCTAAACATCGTGTTGGAGGTAATATCACTACCATGGAGTCCGATGGCTA
597	Amaranthus thunbergii	PPOX_B27_2	cDNA Contig	176	375	TAGCCATCGGACTCCATGGTAGTGATATTACCTCCAACACGATGTTTAGCTTCAGTGACAATGAAATTGAGATTGGATTGAATGTGTTTGGTAGAAAGAGCCTGCGCAATGCAAAGTCCACTGATACCAGCTCCAACAATTACACAATCTAATACTTTATCTCCTTCTCCTTGGGTCGTAATCGTGTTCTGGTAATTG

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598	Amaranthus thunbergii	PPOX_B27_3	cDNA Contig	351	550	TCACTACCATGGAGTCCGATGGCTATAT CTGGGAAGAGGGTCCTAATAGTTTCCAA CCCTCTGATCCTGTGCTTACTATGGCGGT TGACAGTGGATTGAAAGACGATTTGGTC TTGGGAGATCCTAATGCCCCTCGTTTCGT GCTCTGGAATGGTAAATTAAGGCCTGTT CCTTCCAAACCTACGGACCTTCCCTTTTT T
599	Amaranthus thunbergii	PPOX_B27_3	cDNA Contig	351	550	AAAAAAGGGAAGGTCCGTAGGTTTGGA AGGAACAGGCCTTAATTTACCATTCCAG AGCACGAAACGAGGGGCATTAGGATCT CCCAAGACCAAATCGTCTTTCAATCCACT GTCAACCGCCATAGTAAGCACAGGATCA GAGGGTTGGAAACTATTAGGACCCTCTT CCCAGATATAGCCATCGGACTCCATGGT AGTGA
600	Amaranthus thunbergii	PPOX_B27_4	cDNA Contig	526	725	CAAACCTACGGACCTTCCCTTTTTTGATC TCATGAGCTTTCCTGGTAAGATTAGGGC TGGTCTTGGTGCACTTGGTCTTCGTCGTC CTCCTCCTCCTTCTTCTTATGAGGAATCT GTTGAAGAATTTGTGCGCCGTAATCTCG GCGATGAGGTCTTCGAACGCTTGATCGA ACCCTTTTGTTCTGGTGTGTATGCTGGTG
601	Amaranthus thunbergii	PPOX_B27_4	cDNA Contig	526	725	CACCAGCATACACACCAGAACAAAAGG GTTCGATCAAGCGTTCGAAGACCTCATC GCCGAGATTACGGCGCACAAATTCTTCA ACAGATTCCTCATAAGAAGAAGGAGGA GGAGGACGACGAAGACCAAGTGCACCA AGACCAGCCCTAATCTTACCAGGAAAGC TCATGAGATCAAAAAAGGGAAGGTCCG TAGGTTTG
602	Amaranthus thunbergii	PPOX_B27_5	cDNA Contig	701	900	TTTTGTTCTGGTGTGTATGCTGGTGATCC TACAAAGTTGAGTATGAAAGCTGCATTT GGAAAGGTCTGGACCTTAGAGCAAAAG GGTGGTAGTATCATCGCCGGTACACTCA AAACTATTCAGGAAAGGAAGAATAATCC TCCACCCCCTCGAGACCCCCGCCTTCCTA AACCTAAGGGCCAGACTGTTGGATCCTT TAG
603	Amaranthus thunbergii	PPOX_B27_5	cDNA Contig	701	900	CTAAAGGATCCAACAGTCTGGCCCTTAG GTTTAGGAAGGCGGGGGTCTCGAGGGG GTGGAGGATTATTCTTCCTTTCCTGAATA GTTTTGAGTGTACCGGCGATGATACTAC CACCCTTTTGCTCTAAGGTCCAGACCTTT CCAAATGCAGCTTTCATACTCAACTTTGT AGGATCACCAGCATACACACCAGAACAA

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604	Amaranthus thunbergii	PPOX_B27_6	cDNA Contig	876	1075	AGGGCCAGACTGTTGGATCCTTTAGGAA AGGGCTCATTATGTTACCTACCGCCATT GCTGCTAGGCTTGGCAGTAAAGTCAAAC TATCGTGGACACTTTCTAATATTGATAAG TCGCTCAATGGTGAATACATTCTCACTTA TCAAACACCCGATGGACCGGTTTCTGTT AGGACCAAAGCGGTTGTCATGACTGTCC CT
605	Amaranthus thunbergii	PPOX_B27_6	cDNA Contig	876	1075	AGGGACAGTCATGACAACCGCTTTGGTC CTAACAGAAACCGGTCCATCGGGTGTTT GATAAGTGAGAATGTATTCACCATTGAG CGACTTATCAATATTAGAAAGTGTCCAC GATAGTTTGACTTTACTGCCAAGCCTAG CAGCAATGGCGGTAGGTAACATAATGA GCCCTTTCCTAAAGGATCCAACAGTCTG GCCCT
606	Amaranthus thunbergii	PPOX_B27_7	cDNA Contig	1051	1250	CAAAGCGGTTGTCATGACTGTCCCTTCA TACATTGCAAGTAGCCTGCTTCGTCCGCT CTCAGATGTTGCTGCAGATTCTCTTTCTA AGTTTTACTATCCACCAGTCGCAGCAGT GTCCCTTTCTTATCCCAAAGAAGCAATTA GACCAGAATGCTTGATCGATGGAGAACT AAAAGGATTCGGGCAATTGCATCCCCGC A
607	Amaranthus thunbergii	PPOX_B27_7	cDNA Contig	1051	1250	TGCGGGGATGCAATTGCCCGAATCCTTT TAGTTCTCCATCGATCAAGCATTCTGGTC TAATTGCTTCTTTGGGATAAGAAAGGGA CACTGCTGCGACTGGTGGATAGTAAAAC TTAGAAAGAGAATCTGCAGCAACATCTG AGAGCGGACGAAGCAGGCTACTTGCAA TGTATGAAGGGACAGTCATGACAACCG CTTTG
608	Amaranthus thunbergii	PPOX_B27_8	cDNA Contig	1226	1425	GGATTCGGGCAATTGCATCCCCGCAGCC AGGGTGTGGAAACCTTGGGAACAATTT ATAGTTCATCTCTTTTCCCTGGTCGAGCA CCACCCGGTAGGACCTTGATCTTGAGCT ACATTGGAGGTGCTACAAATGTTGGAAT ATTACAAAAGAGTGAAGATGAACTTGC GGAGACAGTTGATAAGGATCTCAGAAA AATTCT
609	Amaranthus thunbergii	PPOX_B27_8	cDNA Contig	1226	1425	AGAATTTTTCTGAGATCCTTATCAACTGT CTCCGCAAGTTCATCTTCACTCTTTTGTA ATATTCCAACATTTGTAGCACCTCCAATG TAGCTCAAGATCAAGGTCCTACCGGGTG GTGCTCGACCAGGGAAAAGAGATGAAC TATAAATTGTTCCCAAGGTTTCCACACCC

						TGGCTGCGGGGATGCAATTGCCCGAATC C
610	Amaranthus viridis	PPOX_B28_1	cDNA Contig	1	200	GGATAACCAGAGAGAGTGCGAGAGAAA TGAGTGCGATGGCGTTATCGAGCAGCAT TCTACAATGTCCGCCGCACTCCGACATCT CGTTCCGCTTTTCTGCTCATTCACCAACC CACTCCCCCATCTTCTTCGGAAGACCACG AAAATTATCATATATCCATTGTTCCACAA GCTCAAGCTCAACTGCCAATTACCAGAA C
611	Amaranthus viridis	PPOX_B28_1	cDNA Contig	1	200	GTTCTGGTAATTGGCAGTTGAGCTTGAG CTTGTGGAACAATGGATATATGATAATT TTCGTGGTCTTCCGAAGAAGATGGGGG AGTGGGTTGGTGAATGAGCAGAAAAGC GGAACGAGATGTCGGAGTGCGGCGGAC ATTGTAGAATGCTGCTCGATAACGCCAT CGCACTCATTTCTCTCGCACTCTCTCTGG TTATCC
612	Amaranthus viridis	PPOX_B28_2	cDNA Contig	176	375	AAGCTCAACTGCCAATTACCAGAACACG ATTACGACCCAAGGAGAAGGAGATAAA GTATTAGATTGTGTAATTGTTGGAGCTG GTATCAGTGGACTTTGCATTGCGCAGGC TCTTTCTACCAAACACATTCAATCCAATC TCAATTTCATTGTCACTGAAGCTAAACAT CGTGTTGGAGGTAATATTACTACCATGG AGT
613	Amaranthus viridis	PPOX_B28_2	cDNA Contig	176	375	ACTCCATGGTAGTAATATTACCTCCAACA CGATGTTTAGCTTCAGTGACAATGAAAT TGAGATTGGATTGAATGTGTTTGGTAGA AAGAGCCTGCGCAATGCAAAGTCCACTG ATACCAGCTCCAACAATTACACAATCTA ATACTTTATCTCCTTCTCCTTGGGTCGTA ATCGTGTTCTGGTAATTGGCAGTTGAGC TT
614	Amaranthus viridis	PPOX_B28_3	cDNA Contig	351	550	GGAGGTAATATTACTACCATGGAGTCCG ATGGCTATATCTGGGAAGAGGGTCCTAA TAGTTTCCAACCCTCTGATCCTGTGCTTA CTATGGCGGTTGACAGTGGATTGAAAG ACGATTTGGTCTTGGGAGATCCTAATGC CCCTCGTTTCGTGCTCTGGAATGGTAAA TTAAGGCCTGTTCCTTCCAAACCTACGG ACCT
615	Amaranthus viridis	PPOX_B28_3	cDNA Contig	351	550	AGGTCCGTAGGTTTGGAAGGAACAGGC CTTAATTTACCATTCCAGAGCACGAAAC GAGGGGCATTAGGATCTCCCAAGACCA AATCGTCTTTCAATCCACTGTCAACCGCC ATAGTAAGCACAGGATCAGAGGGTTGG

						AAACTATTAGGACCCTCTTCCCAGATATA GCCATCGGACTCCATGGTAGTAATATTA CCTCC
616	Amaranthus viridis	PPOX_B28_4	cDNA Contig	526	725	CTGTTCCTTCCAAACCTACGGACCTTCCC TTTTTTGATCTCATGAGCTTTCCTGGTAA GATTAGGGCTGGTCTTGGTGCACTTGGT CTTCGTCGTCCTCCTCCTCCTTCTTCTTAT GAGGAATCTGTTGAAGAATTTGTGCGCC GTAATCTCGGCGATGAGGTCTTCGAACG CTTGATCGAACCCTTTTGTTCTGGTGTG
617	Amaranthus viridis	PPOX_B28_4	cDNA Contig	526	725	CACACCAGAACAAAAGGGTTCGATCAA GCGTTCGAAGACCTCATCGCCGAGATTA CGGCGCACAAATTCTTCAACAGATTCCT CATAAGAAGAAGGAGGAGGAGGACGA CGAAGACCAAGTGCACCAAGACCAGCC CTAATCTTACCAGGAAAGCTCATGAGAT CAAAAAAGGGAAGGTCCGTAGGTTTGG AAGGAACAG
618	Amaranthus viridis	PPOX_B28_5	cDNA Contig	701	900	GATCGAACCCTTTTGTTCTGGTGTGTAT GCTGGTGATCCTACAAAGTTGAGTATGA AAGCTGCATTTGGAAAGGTCTGGACCTT AGAGCAAAAGGGTGGTAGTATCATCGC CGGTACACTCAAAACTATTCAGGAAAGG AAGAATAATCCTCCACCCCCTCGAGACC CCCGCCTTCCTAAACCTAAGGGCCAGAC TGTTG
619	Amaranthus viridis	PPOX_B28_5	cDNA Contig	701	900	CAACAGTCTGGCCCTTAGGTTTAGGAAG GCGGGGGTCTCGAGGGGGTGGAGGATT ATTCTTCCTTTCCTGAATAGTTTTGAGTG TACCGGCGATGATACTACCACCCTTTTGC TCTAAGGTCCAGACCTTTCCAAATGCAG CTTTCATACTCAACTTTGTAGGATCACCA GCATACACACCAGAACAAAAGGGTTCG ATC
620	Amaranthus viridis	PPOX_B28_6	cDNA Contig	876	1075	CCTAAACCTAAGGGCCAGACTGTTGGAT CCTTTAGGAAAGGGCTCATTATGTTACC TACCGCCATTGCTGCTAGGCTTGGCAGT AAAGTCAAACTATCGTGGACACTTTCTA ATATTGATAAGTCGCTCAATGGTGAATA CAATCTCACTTATCAAACACCCGATGGA CCGGTTTCTGTTAGGACCAAAGCGGTTG TCAT
621	Amaranthus viridis	PPOX_B28_6	cDNA Contig	876	1075	ATGACAACCGCTTTGGTCCTAACAGAAA CCGGTCCATCGGGTGTTTGATAAGTGAG ATTGTATTCACCATTGAGCGACTTATCAA TATTAGAAAGTGTCCACGATAGTTTGAC TTTACTGCCAAGCCTAGCAGCAATGGCG

						GTAGGTAACATAATGAGCCCTTTCCTAA AGGATCCAACAGTCTGGCCCTTAGGTTT AGG
622	Amaranthus viridis	PPOX_B28_7	cDNA Contig	1051	1250	CTGTTAGGACCAAAGCGGTTGTCATGAC TGTCCCTTCATACATTGCAAGTAGCCTGC TTCGTCCGCTCTCAGATGTTGCTGCAGAT TCTCTTTCTAAGTTTTACTATCCACCAGTC GCAGCAGTGTCCCTTTCTTATCCCAAAG AAGCAATTAGACCAGAATGCTTGATCGA TGGAGAACTAAAAGGATTCGGGCAATT G
623	Amaranthus viridis	PPOX_B28_7	cDNA Contig	1051	1250	CAATTGCCCGAATCCTTTTAGTTCTCCAT CGATCAAGCATTCTGGTCTAATTGCTTCT TTGGGATAAGAAAGGGACACTGCTGCG ACTGGTGGATAGTAAAACTTAGAAAGA GAATCTGCAGCAACATCTGAGAGCGGA CGAAGCAGGCTACTTGCAATGTATGAAG GGACAGTCATGACAACCGCTTTGGTCCT AACAG
624	Amaranthus viridis	PPOX_B28_8	cDNA Contig	1226	1425	AGAACTAAAAGGATTCGGGCAATTGCAT CCCCGCAGCCAGGGTGTGGAAACCTTG GGAACAATTTATAGTTCATCTCTTTTCCC TGGTCGAGCACCACCCGGTAGGACCTTG ATCTTGAGCTACATTGGAGGTGCTACAA ATGTTGGAATATTACAAAAGAGTGAAG ATGAACTTGCGGAGACAGTTGATAAGG ATCTCA
625	Amaranthus viridis	PPOX_B28_8	cDNA Contig	1226	1425	TGAGATCCTTATCAACTGTCTCCGCAAGT TCATCTTCACTCTTTTGTAATATTCCAACA TTTGTAGCACCTCCAATGTAGCTCAAGA TCAAGGTCCTACCGGGTGGTGCTCGACC AGGGAAAAGAGATGAACTATAAATTGT TCCCAAGGTTTCCACACCCTGGCTGCGG GGATGCAATTGCCCGAATCCTTTTAGTTC T
626	Amaranthus viridis	PPOX_B28_9	cDNA Contig	1401	1600	GCGGAGACAGTTGATAAGGATCTCAGA AAAATTCTGATAAATCCAAATGCGAAAG GCAGCCGTGTTCTGGGAGTGAGAGTAT GGCCAAAGGCAATCCCCCAATTTTTAGT TGGTCACTTTGATCTGCTAGATGCTGCA AAAGCTGGTTTGGCAAATGCTGGGCTAA AGGGGTTGTTTCTTGGTGGTAATTATGT ATCAGG
627	Amaranthus viridis	PPOX_B28_9	cDNA Contig	1401	1600	CCTGATACATAATTACCACCAAGAAACA ACCCCTTTAGCCCAGCATTTGCCAAACCA GCTTTTGCAGCATCTAGCAGATCAAAGT GACCAACTAAAAATTGGGGGATTGCCTT

						TGGCCATACTCTCACTCCCAGAACACGG CTGCCTTTCGCATTTGGATTTATCAGAAT TTTTCTGAGATCCTTATCAACTGTCTCCG C
628	Amaranthus viridis	PPOX_B28_1 0	cDNA Contig	1576	177 5	TTCTTGGTGGTAATTATGTATCAGGTGTT GCCTTGGGGAGGTGTATAGAGGGTGCT TATGACTCTGCATCTCAGGTAGTGGATT TCCTCTCACAGTACAAAGACAAGTAGTC AATAGGGCTCCACCTTCCTGGTTAACTA ACTTTTGTAGCTCTTGTAATTTGTATCAT GTAATATTATTCAGATGTAAAAGATACA GTC
629	Amaranthus viridis	PPOX_B28_1 0	cDNA Contig	1576	177 5	GACTGTATCTTTTACATCTGAATAATATT ACATGATACAAATTACAAGAGCTACAAA AGTTAGTTAACCAGGAAGGTGGAGCCC TATTGACTACTTGTCTTTGTACTGTGAGA GGAAATCCACTACCTGAGATGCAGAGTC ATAAGCACCCTCTATACACCTCCCCAAG GCAACACCTGATACATAATTACCACCAA GAA
630	Ambrosia trifida	PPOX_B34_1	gDNA Contig	1	200	ATCCCACCGCTTTTGCGCTTTGCGCCTCG GTTTTGGACCTCGTCGCTTTAGTGCGCTT CGCGCTTTTTAAAACCAAGCTTCTATCGA GTTTAATGACTAAAATTTAGTAAAATAT AATGACCAATATGGAAGGTATTTCATGA CAATTAACCCTAAATATATTAGGTAACC ACAAAGGAGGGCTCTCTGTTGGGAAAG CA
631	Ambrosia trifida	PPOX_B34_1	gDNA Contig	1	200	TGCTTTCCCAACAGAGAGCCCTCCTTTGT GGTTACCTAATATATTTAGGGTTAATTGT CATGAAATACCTTCCATATTGGTCATTAT ATTTTACTAAATTTTAGTCATTAAACTCG ATAGAAGCTTGGTTTTAAAAAGCGCGAA GCGCACTAAAGCGACGAGGTCCAAAAC CGAGGCGCAAAGCGCAAAAGCGGTGG GAT
632	Ambrosia trifida	PPOX_B34_2	gDNA Contig	176	375	AGGAGGGCTCTCTGTTGGGAAAGCAAT ATCCTCCGGATGCAAAGCAGCCGAATCC GTGATTGCATATTTGGATTCTTATTCGGA CCAGAAGTAGAAGGATGGGTGTTGCTA GATTATGTTTTAACCGGTAAACTTTATTT CTTATATCTTATTTTTATTCTTATTTTTCA ATGCAAAGAGTCAAACGACGCAAGTGT GAT
633	Ambrosia trifida	PPOX_B34_2	gDNA Contig	176	375	ATCACACTTGCGTCGTTTGACTCTTTGCA TTGAAAAATAAGAATAAAAATAAGATAT AAGAAATAAAGTTTACCGGTTAAAACAT

						AATCTAGCAACACCCATCCTTCTACTTCT GGTCCGAATAAGAATCCAAATATGCAAT CACGGATTCGGCTGCTTTGCATCCGGAG GATATTGCTTTCCCAACAGAGAGCCCTC CT
634	Ambrosia trifida	PPOX_B32_1	gDNA Contig	1	200	CGCACGCAATGGTTTTGCACTTTTGCCCA CAGTAAAGAAAAGGTAGCCTCTCTACCC GACCCGACCCGACCCGAACCAAACCGAT AAAAACAAATACCAACTCTGATAACCAG ATTACTCACAGAGAAACCAACAATGGCT TCACCAACTATAGTTGACAACCAAAGTT AGGGTTCTTCTAAATTCTAATTACATTTT AT
635	Ambrosia trifida	PPOX_B32_1	gDNA Contig	1	200	ATAAAATGTAATTAGAATTTAGAAGAAC CCTAACTTTGGTTGTCAACTATAGTTGGT GAAGCCATTGTTGGTTTCTCTGTGAGTA ATCTGGTTATCAGAGTTGGTATTTGTTTT TATCGGTTTGGTTCGGGTCGGGTCGGGT CGGGTAGAGAGGCTACCTTTTCTTTACT GTGGGCAAAAGTGCAAAACCATTGCGT GCG
636	Ambrosia trifida	PPOX_B32_2	gDNA Contig	176	375	CTTCTAAATTCTAATTACATTTTATCCTAA TTTTACTTACACATTTGTAGCATTTGCAT CTATAATTCAGAAACCTAATCTAATTTAT TAATTAATTAATTAAGTGGTTTTGTTTTC TCTACAGAACCTGCTAAGAGAGTTGCTG TTGTTGGTGCTGGTGTCAGGTACTTAAA CTTAAAACCTAAAACAGATAATTATTT
637	Ambrosia trifida	PPOX_B32_2	gDNA Contig	176	375	AAATAATTATCTGTTTTAGGTTTTAAGTT TAAGTACCTGACACCAGCACCAACAACA GCAACTCTCTTAGCAGGTTCTGTAGAGA AAACAAAACCACTTAATTAATTAATTAAT AAATTAGATTAGGTTTCTGAATTATAGA TGCAAATGCTACAAATGTGTAAGTAAAA TTAGGATAAAATGTAATTAGAATTTAGA AG
638	Ambrosia trifida	PPOX_B32_3	gDNA Contig	351	550	TAAAACCTAAAACAGATAATTATTTTGCT TATTTACTAGATTCACTTATTCTGTTCAT GTAATTTGCTAAGGTTTGATCAGTCAATT ATATACATTTAGGGATTTAGGAGTTACA GAATGTTTTGATATAATAATATATACAAT TTGTAAAAATATATAGATCATGATTGAT AATTAGAGGAATGGAATATTTTGATAAT
639	Ambrosia trifida	PPOX_B32_3	gDNA Contig	351	550	ATTATCAAAATATTCCATTCCTCTAATTA TCAATCATGATCTATATATTTTTACAAAT TGTATATATTATTATATCAAAACATTCTG TAACTCCTAAATCCCTAAATGTATATAAT

						TGACTGATCAAACCTTAGCAAATTACAT GAACAGAATAAGTGAATCTAGTAAATAA GCAAAATAATTATCTGTTTTAGGTTTTA
640	Ambrosia trifida	PPOX_B32_4	gDNA Contig	526	725	TAGAGGAATGGAATATTTTGATAATTGA AAAAACAATATGTTACATTTTTTTCAGTG GTTGTGCTGCTGCTTATAAGTTAAAGTT ACATGGATTGAATGTGACTGTGTTTGAA GCTGATGGGAGCGTTGGTGGGAAACTA AAGAGCGTTTCGCAAGATGGTTTAATAT GGGATGAGGGTGCCAATACTATGGTAT GTTTT
641	Ambrosia trifida	PPOX_B32_4	gDNA Contig	526	725	AAAACATACCATAGTATTGGCACCCTCA TCCCATATTAAACCATCTTGCGAAACGCT CTTTAGTTTCCCACCAACGCTCCCATCAG CTTCAAACACAGTCACATTCAATCCATGT AACTTTAACTTATAAGCAGCAGCACAAC CACTGAAAAAAATGTAACATATTGTTTTT TCAATTATCAAAATATTCCATTCCTCTA
642	Ambrosia trifida	PPOX_B32_5	gDNA Contig	701	900	GGGTGCCAATACTATGGTATGTTTTAGT ATAATATGATTGGTTTCACTTTGTTAGCA TTTTTTATGAGGTTTGTTGTATGTGTTAC CTTATGTAGACTGAGAGTGAGGCAGAT GTTAGCAGTTTGATTGATGATCTTGGGC TTCGAGATAAACAGCAGTTTGTAAGTTG TTGTGTTTGATATAGCTGCCATACTTCCT AT
643	Ambrosia trifida	PPOX_B32_5	gDNA Contig	701	900	ATAGGAAGTATGGCAGCTATATCAAACA CAACAACTTACAAACTGCTGTTTATCTCG AAGCCCAAGATCATCAATCAAACTGCTA ACATCTGCCTCACTCTCAGTCTACATAAG GTAACACATACAACAAACCTCATAAAAA ATGCTAACAAAGTGAAACCAATCATATT ATACTAAAACATACCATAGTATTGGCAC CC
644	Ambrosia trifida	PPOX_B32_6	gDNA Contig	876	1075	TTGATATAGCTGCCATACTTCCTATAGCT TGTGTGGTAAATTATATCTATGAACATAT GCAATTATTTTGTAAAATGACAAGAAAC AGATTCTTTGTTTTATTTGTGTATGAATA ATGAATAGATAAGACTAAATTCATTTTTA GGTCTGCTTCGATTTGTCTTTTATAATCA CTACGCTGAGTTTTAAATCTTTAACAT
645	Ambrosia trifida	PPOX_B32_6	gDNA Contig	876	1075	ATGTTAAAGATTTAAAACTCAGCGTAGT GATTATAAAAGACAAATCGAAGCAGACC TAAAAATGAATTTAGTCTTATCTATTCAT TATTCATACACAAATAAAACAAAGAATC TGTTTCTTGTCATTTTACAAAATAATTGC ATATGTTCATAGATATAATTTACCACACA

						AGCTATAGGAAGTATGGCAGCTATATCAA
646	Ambrosia trifida	PPOX_B32_7	gDNA Contig	1051	1250	ACGCTGAGTTTTAAATCTTTAACATTATTTCCTGTTGCAGCCAATTTCACAGCACAAGCGGTACATTGTAAGAAATGGAAAACCTGTATTGGTATGGATATCTCAACACCACTTAACTAGTGATCCTCTATTTTTAGTAAAATTCATTTACTAAAAAAAGGGGGGCTGAAAAATTAAAATTTAATGTGAATTGTGCTTTA
647	Ambrosia trifida	PPOX_B32_7	gDNA Contig	1051	1250	TAAAGCACAATTCACATTAAATTTTAATTTTTCAGCCCCCCTTTTTTTAGTAAATGAATTTTACTAAAAATAGAGGATCACTAGTTAAGTGGTGTTGAGATATCCATACCAATACAGGTTTTCCATTTCTTACAATGTACCGCTTGTGCTGTGAAATTGGCTGCAACAGGAAATAATGTTAAAGATTTAAAACTCAGCGT
648	Ambrosia trifida	PPOX_B32_8	gDNA Contig	1226	1425	AAAATTTAATGTGAATTGTGCTTTATTAGGTTTGAATGCTTAACCTCATCAAAGTCAAATAATAACATGAGTAGTCTGTTGCTCTGGAAACCCGTATTGCAACCCATGAAAAGATCCAAATCACGGTTTTTCAAACACTGTTTTATACTTTTATGTCCAGGGAACAAAAAACCAAAATCTTTCCTGAGTGAGGCCTTAGT
649	Ambrosia trifida	PPOX_B32_8	gDNA Contig	1226	1425	ACTAAGGCCTCACTCAGGAAAGATTTTGGTTTTTTGTTCCCTGGACATAAAAGTATAAAACAGTGTTTGAAAAACCGTGATTTGGATCTTTTCATGGGTTGCAATACGGGTTTCCAGAGCAACAGACTACTCATGTTATTATTTGACTTTGATGAGGTTAAGCATTCAAACCTAATAAAGCACAATTCACATTAAATTTT
650	Ambrosia trifida	PPOX_B32_9	gDNA Contig	1401	1600	AATCTTTCCTGAGTGAGGCCTTAGTTGTCTTCTTATTATTTATCTTTTATATTTATCAAGTTCATGTCTCTCTATATTGACCATGACTCAGTCTATATCATGATTGCAGATACCTTCTAACCCAATTGCACTGATTAGCAGCAGTTTTCTTTCCACTCAGTCAAAGGTATGTTAGTAGCTCCTGCCACCTTGAAGGTTCA
651	Ambrosia trifida	PPOX_B32_9	gDNA Contig	1401	1600	TGAACCTTCAAGGTGGCAGGAGCTACTAACATACCTTTGACTGAGTGGAAAGAAAACTGCTGCTAATCAGTGCAATTGGGTTAGAAGGTATCTGCAATCATGATATAGACTGAGTCATGGTCAATATAGAGAGACATGAACTTGATAAATATAAAAGATAAATAATA

						AGAAGACAACTAAGGCCTCACTCAGGA AAGATT
652	Ambrosia trifida	PPOX_B32_10	gDNA Contig	1576	1775	TAGCTCCTGCCACCTTGAAGGTTCAAGC ATAAGTATGCCATATCTTATTGAGATCGT TCACTCGCATACTATCTTCTTAATGTTGT TCAATGTTGAGATTAAAGTGCAATCTTT ATTCTATTTTGCTTAATCAAATATAATGT TTATTTATTTTAATTTTATTAAAAAAGTAT CTACGTAAGTATTACAAAAAGTAAAAA
653	Ambrosia trifida	PPOX_B32_10	gDNA Contig	1576	1775	TTTTTACTTTTTGTAATACTTACGTAGAT ACTTTTTTAATAAAATTAAAATAAATAAA CATTATATTTGATTAAGCAAAATAGAAT AAAGATTGCACTTTAATCTCAACATTGA ACAACATTAAGAAGATAGTATGCGAGT GAACGATCTCAATAAGATATGGCATACT TATGCTTGAACCTTCAAGGTGGCAGGAG CTA
654	Ambrosia trifida	PPOX_B32_11	gDNA Contig	1751	1950	ACGTAAGTATTACAAAAAGTAAAAACTC TTCCCCGTTGATGAGATGATCTCAAAGT CTAATGTCATATATCTAGTACTCTCAATA AGCTAACATAAACAGTATAGTCTATTAA AAGGGTCCCCAACATCGAAATGAGTAAC GCTGCTTTGAGTTAAGGGTGCAAAATGT CATATAATAAATAAAGATGTTCTATGAT GCT
655	Ambrosia trifida	PPOX_B32_11	gDNA Contig	1751	1950	AGCATCATAGAACATCTTTATTTATTATA TGACATTTTGCACCCTTAACTCAAAGCA GCGTTACTCATTTCGATGTTGGGGACCC TTTTAATAGACTATACTGTTTATGTTAGC TTATTGAGAGTACTAGATATATGACATT AGACTTTGAGATCATCTCATCAACGGGG AAGAGTTTTTACTTTTTGTAATACTTACG T
656	Ambrosia trifida	PPOX_B32_12	gDNA Contig	1926	2125	ATAAATAAAGATGTTCTATGATGCTTTG ATATTTGTTTCGCACTTTCACTTATCCCCC ATGGTATTTTTAACTTGTTTTTAAAAGTA GAAGATTTTTTTTATTGATGTGCATGCGA TTATTATCGGCTTTGTTTGCAAATTTTAC AGGTTCAAATTCTTTTAGAGCCATTTTTA TGGAAGAAGACTAAGTCATCTGACGA
657	Ambrosia trifida	PPOX_B32_12	gDNA Contig	1926	2125	TCGTCAGATGACTTAGTCTTCTTCCATAA AAATGGCTCTAAAAGAATTTGAACCTGT AAAATTTGCAAACAAAGCCGATAATAAT CGCATGCACATCAATAAAAAAAATCTTC TACTTTTAAAAACAAGTTAAAAATACCAT GGGGGATAAGTGAAAGTGCGAAACAAA TATCAAAGCATCATAGAACATCTTTATTT

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658	Ambrosia trifida	PPOX_B32_13	gDNA Contig	2101	2300	GGAAGAAGACTAAGTCATCTGACGAACCCGAGAGGTAAAATACATAGCCTTGTTCCATTTCATCGGCTTGAAGTAGTTATATTCGGTACATGCCATTAGGTTCTTAACCATGTATTTTGCAGTGTTGGAGGATTCTTTCAACGTCATTTTGGGAAGGAGGTGTTTGTATATTCGACATAATGTTTTGTTTCTGTTCTGAT
659	Ambrosia trifida	PPOX_B32_13	gDNA Contig	2101	2300	ATCAGAACAGAAACAAAACATTATGTCGAATATACAAACACCTCCTTCCCAAAATGACGTTGAAAGAATCCTCCAACACTGCAAAATACATGGTTAAGAACCTAATGGCATGTACCGAATATAACTACTTCAAGCCGATGAAATGGAACAAGGCTATGTATTTTACCTCTCGGGTTCGTCAGATGACTTAGTCTTCTTCC
660	Ambrosia trifida	PPOX_B32_14	gDNA Contig	2276	2475	CATAATGTTTTGTTTCTGTTCTGATTCTGTTTCTCATAGTTATTAATATTTGACCTGCTTATCTAAGGTTGTTGAGTATCTCATTGATCCAGTTGTTGCGGGAACAAGCGGTGGAGATCCTGAATCACTCTCTGTGAGTAACTATTGTTTCTCCACACATTTTTTTGGAGAAATATACATTGCTGCTTTACATTAACGAC
661	Ambrosia trifida	PPOX_B32_14	gDNA Contig	2276	2475	GTCGTTAATGTAAAGCAGCAATGTATATTTCTCCAAAAAAATGTGTGGAGAAACAATAGTTACTCACAGAGAGTGATTCAGGATCTCCACCGCTTGTTCCCGCAACAACTGGATCAATGAGATACTCAACAACCTTAGATAAGCAGGTCAAATATTAATAACTATGAGAAACAGAATCAGAACAGAAACAAAACATTATG
662	Ambrosia trifida	PPOX_B32_15	gDNA Contig	2451	2650	TACATTGCTGCTTTACATTAACGACCTTAAACCGTTTAATATATTGCTTGAATTCTTTTACTTTTCCACACAGATGCGTCATGCATTTCCTGAGCTATGGGATTTAGAGAGAAGGTATGTTTGTAACAAACAGTAGTAATTCTTCTTCAAACGATCTGTGGAATAATGACTTTTGACCACTTATTTCTGAAGACCTAAAA
663	Ambrosia trifida	PPOX_B32_15	gDNA Contig	2451	2650	TTTTAGGTCTTCAGAAATAAGTGGTCAAAAGTCATTATTCCACAGATCGTTTGAAGAAGAATTACTACTGTTTGTTACAAACATACCTTCTCTCTAAATCCCATAGCTCAGGAAATGCATGACGCATCTGTGTGGAAAAGTAAAAGAATTCAAGCAATATATTAAACGGTTTAAGGTCGTTAATGTAAAGCAGCAATG

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664	Ambrosia trifida	PPOX_B32_16	gDNA Contig	2626	2825	ACCACTTATTTCTGAAGACCTAAAATCAATTTAATACTTACAACTATTTAATTCAGGTTTGGTTCAATCATTTCTGGGGCATTTCAATCTATGGTATCTTCCAGAGGTGGGAAAAGGAAACCTTCTGGAAACAGCAAACGTAGGCGTGGTTCCTTTTCTTTTTTTGGTGGGATGCAGGTAAGACGAGGGTGATTTACTGA
665	Ambrosia trifida	PPOX_B32_16	gDNA Contig	2626	2825	TCAGTAAATCACCCTCGTCTTACCTGCATCCCACCAAAAAAAGAAAAGGAACCACGCCTACGTTTGCTGTTTCCAGAAGGTTTCCTTTTCCCACCTCTGGAAGATACCATAGATTGAAATGCCCCAGAAATGATTGAACCAAACCTGAATTAAATAGTTGTAAGTATTAAATTGATTTTAGGTCTTCAGAAATAAGTGGT
666	Ambrosia trifida	PPOX_B32_17	gDNA Contig	2801	3000	AGGTAAGACGAGGGTGATTTACTGATTTAGATAAGACCCTAAATTTAGTTATTGTTATCTTTTAATTAATTACAGATGTTATTTGGGTCGTTCATGCTTTTTTGCTATGCAGACACTCACTGATGCACTATGCAAAGAGATTGGACCCCATGAAGTTAATCTTCAATCAAAGGTGCTTGAAATGTCCTACAGCTGCGATG
667	Ambrosia trifida	PPOX_B32_17	gDNA Contig	2801	3000	CATCGCAGCTGTAGGACATTTCAAGCACCTTTGATTGAAGATTAACTTCATGGGGTCCAATCTCTTTGCATAGTGCATCAGTGAGTGTCTGCATAGCAAAAAAGCATGAACGACCCAAATAACATCTGTAATTAATTAAAAGATAACAATAACTAAATTTAGGGTCTTATCTAAATCAGTAAATCACCCTCGTCTTACCT
668	Ambrosia trifida	PPOX_B32_18	gDNA Contig	2976	3175	CTTGAAATGTCCTACAGCTGCGATGATAATGCGGTTGGTAATTGGTCAATTTATTGTGCTCCAGATCAAAACAAACAATTTCAGCAATCTTTTGATGCTGTGATCATGACTGTGAGTGCCTTCATTGGGTAATCTTTTACTTATCAGTGACATAAAGTTAGTTAATTTCTTGCATTCTTGATGAAGATAGTTTTTTGTAT
669	Ambrosia trifida	PPOX_B32_18	gDNA Contig	2976	3175	ATACAAAAAACTATCTTCATCAAGAATGCAAGAAATTAACTAACTTTATGTCACTGATAAGTAAAAGATTACCCAATGAAGGCACTCACAGTCATGATCACAGCATCAAAAGATTGCTGAAATTGTTTGTTTTGATCTGGAGCACAATAAATTGACCAATTACCAACCGCATTATCATCGCAGCTGTAGGACATTTC

						AAG
670	Ambrosia trifida	PPOX_B32_19	gDNA Contig	3151	3350	TCTTGATGAAGATAGTTTTTTGTATCTTTAAAGTTTATTCTGTGTCCTCTAGGTAGTATCTGGATATTAATACATGGGATGGGAATTTTTTTAATCTTGAGTTTTTCTCTGATGGTTATTAAGTGTTAGATGCATCTAATTTTAACTGACAAAGAAAATATTCCCCAATTAGGCCCCACTTAACAATGTAAAAGAAATGA
671	Ambrosia trifida	PPOX_B32_19	gDNA Contig	3151	3350	TCATTTCTTTTACATTGTTAAGTGGGGCCTAATTGGGGAATATTTTCTTTGTCAGTTAAAATTAGATGCATCTAACACTTAATAACCATCAGAGAAAAACTCAAGATTAAAAAAATTCCCATCCCATGTATTAATATCCAGATACTACCTAGAGGACACAGAATAAACTTTAAAGATACAAAAAACTATCTTCATCAAGA
672	Ambrosia trifida	PPOX_B32_20	gDNA Contig	3326	3525	CCACTTAACAATGTAAAAGAAATGAAGATTACAAAGACAGGAAGTCCGTTTCTGCTTAATTTTATTCCAGAGGTATGTTTTTTTTTCTTCTACTAAAGCATTAGTTTTAGTTCTATCAAATCTAACACTGAATACAGAAAACAGCTTTAACATCGTCATCCAATTAAATTGTGAAATATTTATAGTGTCATTTCTTAGCC
673	Ambrosia trifida	PPOX_B32_20	gDNA Contig	3326	3525	GGCTAAGAAATGACACTATAAATATTTCACAATTTAATTGGATGACGATGTTAAAGCTGTTTTCTGTATTCAGTGTTAGATTTGATAGAACTAAAACTAATGCTTTAGTAGAAGAAAAAAAAACATACCTCTGGAATAAAATTAAGCAGAAACGGACTTCCTGTCTTTGTAATCTTCATTTCTTTTACATTGTTAAGTGG
674	Ambrosia trifida	PPOX_B32_21	gDNA Contig	3501	3700	ATATTTATAGTGTCATTTCTTAGCCTTTTGTTTTTATAATACAGGTGAGTTATTTGCCATTATCAGTAATAATCTCCACTTTCAAGAAAGAAAACGTGAAGCAGCCTCTTGAGGGTTTTGGAGTTCTTGTTCCTGCCAAGGAGCAGGAAAATGGTTTGAGGACACTAGGTGAAGCTTGATTCTGCCCTCCATTATTGTTT
675	Ambrosia trifida	PPOX_B32_21	gDNA Contig	3501	3700	AAACAATAATGGAGGGCAGAATCAAGCTTCACCTAGTGTCCTCAAACCATTTTCCTGCTCCTTGGCAGGAACAAGAACTCCAAAACCCTCAAGAGGCTGCTTCACGTTTTCTTTCTTGAAAGTGGAGATTATTACTGATAATGGCAAATAACTCACCTGTATTATAAAAACAAAAGGCTAAGAAATGACACTATAAATAT

676	Ambrosia trifida	PPOX_B32_22	gDNA Contig	3676	3875	TTGATTCTGCCCTCCATTATTGTTTTTTATTTGTTTACATTGACACCATAGCAAAAATTCTGCTATGCAGGCACCCTCTTCTCTTCCATGATGTTTCCAGATCGGGCCTCAGAAGACGTGTACCTTTACACCACCTTTGTTGGGGGTAGTCGAAACAAAGAACTGGCCAAAGCTTCGAGGTAGGCAGGCTTGCTCATCAC
677	Ambrosia trifida	PPOX_B32_22	gDNA Contig	3676	3875	GTGATGAGCAAGCCTGCCTACCTCGAAGCTTTGGCCAGTTCTTTGTTTCGACTACCCCCAACAAAGGTGGTGTAAAGGTACACGTCTTCTGAGGCCCGATCTGGAAACATCATGGAAGAGAAGAGGGTGCCTGCATAGCAGAATTTTTGCTATGGTGTCAATGTAAACAAATAAAAAACAATAATGGAGGGCAGAATCAA
678	Ambrosia trifida	PPOX_B32_23	gDNA Contig	3851	4050	CGAGGTAGGCAGGCTTGCTCATCACCATATTCCCCCTTAAAATTGTAGTGTGAACTTAACTCAAGTTCTAATTAATTTTTTGTGCATATGTTCAAAATCTATGATAGCCTTCTGAAAGACAAAGTAAAAAAAGTCTTTACTGATTAATTGTGGTAAAATCAATTTATTCATAATGACGTTAATTGACAAATAGGTCTTGG
679	Ambrosia trifida	PPOX_B32_23	gDNA Contig	3851	4050	CCAAGACCTATTTGTCAATTAACGTCATTATGAATAAATTGATTTTACCACAATTAATCAGTAAAGACTTTTTTTACTTTGTCTTTCAGAAGGCTATCATAGATTTTGAACATATGCACAAAAAATTAATTAGAACTTGAGTTAAGTTCACACTACAATTTTAAGGGGGAATATGGTGATGAGCAAGCCTGCCTACCTCG
680	Ambrosia trifida	PPOX_B32_24	gDNA Contig	4026	4225	ACGTTAATTGACAAATAGGTCTTGGAAACTTTCCTAGTAGAGGATATGTTGTAACTTTTAACTCAAAAATCTTTCTTGCAAAATAGGGACGAGTTGAAGCAGATAGTAACTTCTGACCTCAGACAGTTGCTTGGAACAGAAGGGGAGCCAAAATTTCTAACGTAAGGGCACAACGCTATTTCAGTTTAACAGTAATCTTT
681	Ambrosia trifida	PPOX_B32_24	gDNA Contig	4026	4225	AAAGATTACTGTTAAACTGAAATAGCGTTGTGCCCTTACGTTAGAAATTTTGGCTCCCCTTCTGTTCCAAGCAACTGTCTGAGGTCAGAAGTTACTATCTGCTTCAACTCGTCCCTATTTTGCAAGAAAGATTTTTGAGTTAAAAGTTACAACATATCCTCTACTAGGAAAGTTTCCAAGACCTATTTGTCAATTAACGT
682	Ambrosia trifida	PPOX_B32_25	gDNA Contig	4201	4400	CTATTTCAGTTTAACAGTAATCTTTGCTAGAATAAGAAATGTAACCGCTTGCCTACC

						TATGGTCTTTTTATCTGTTAAACAAAATT TTGTTTAATAACCACTAGCCTGGTGTAGT GGCAAAGGTGTATCTCCCTCATCCAAGA GGTGTTGGGTTCTAGTCTCACTTGAGAC AAGGGGAACATTATAAGCGGAGTAAAA AA
683	Ambrosia trifida	PPOX_B32_25	gDNA Contig	4201	4400	TTTTTTACTCCGCTTATAATGTTCCCCTTG TCTCAAGTGAGACTAGAACCCAACACCT CTTGGATGAGGGAGATACACCTTTGCCA CTACACCAGGCTAGTGGTTATTAAACAA AATTTTGTTTAACAGATAAAAAGACCAT AGGTAGGCAAGCGGTTACATTTCTTATT CTAGCAAAGATTACTGTTAAACTGAAAT AG
684	Ambrosia trifida	PPOX_B32_26	gDNA Contig	4376	4575	GGAACATTATAAGCGGAGTAAAAAATT AGCCGTTTAAAAAAAAAAAAGTTTGTAA TTTGAAGTTTTCCATCATGAACTGAAACA GTTGCTAAAATGTAACAAGAAGTTATTA AAGTCTTGAGGTACATAGATATATACAC AATGTAAATATGGCTTACGGAGTTGTGA GGTTGATTGCAGTCACTATTATTGGAGC AAAG
685	Ambrosia trifida	PPOX_B32_26	gDNA Contig	4376	4575	CTTTGCTCCAATAATAGTGACTGCAATCA ACCTCACAACTCCGTAAGCCATATTTACA TTGTGTATATATCTATGTACCTCAAGACT TTAATAACTTCTTGTTACATTTTAGCAAC TGTTTCAGTTCATGATGGAAAACTTCAA ATTACAAACTTTTTTTTTTTAAACGGCT AATTTTTTACTCCGCTTATAATGTTCC
686	Ambrosia trifida	PPOX_B32_27	gDNA Contig	4551	4750	TGCAGTCACTATTATTGGAGCAAAGCAT TTCCATTGTATGGGCGTGACTATGGTTC AGTTATTGAAGCAATTGAGAAGATGGA AAAAGAGCTACCCGGTTACTTTTATGCA GGTAACATGTTTTGTCTTGAAAATAAAA ATGGACAAATCATATGTTGATGAGTAGA GGTGGCAATTTTGACCTATTATAACTTAC AGAG
687	Ambrosia trifida	PPOX_B32_27	gDNA Contig	4551	4750	CTCTGTAAGTTATAATAGGTCAAAATTG CCACCTCTACTCATCAACATATGATTTGT CCATTTTTATTTTCAAGACAAAACATGTT ACCTGCATAAAAGTAACCGGGTAGCTCT TTTTCCATCTTCTCAATTGCTTCAATAACT GAACCATAGTCACGCCCATACAATGGAA ATGCTTTGCTCCAATAATAGTGACTGCA
688	Ambrosia trifida	PPOX_B30_1	cDNA Contig	1	200	GACTGACAGAGAAACCAACAATGGCTTC ACCAACTATAGTTGACAACCAAAAACCT GCTAAGAGAGTTGCTGTTGTTGGTGCTG

						GTGTCAGTGGTTGTGCTGCTGCTTATAA GTTAAAGTTACATGGATTGAATGTGACT GTGTTTGAAGCTGATGGGAGCGTTGGT GGGAAACTAAAGAGCGTTTCGCAAGAT GGTTTA
689	Ambrosia trifida	PPOX_B30_1	cDNA Contig	1	200	TAAACCATCTTGCGAAACGCTCTTTAGTT TCCCACCAACGCTCCCATCAGCTTCAAAC ACAGTCACATTCAATCCATGTAACTTTAA CTTATAAGCAGCAGCACAACCACTGACA CCAGCACCAACAACAGCAACTCTCTTAG CAGGTTTTTGGTTGTCAACTATAGTTGG TGAAGCCATTGTTGGTTTCTCTGTCAGTC
690	Ambrosia trifida	PPOX_B30_2	cDNA Contig	176	375	AAAGAGCGTTTCGCAAGATGGTTTAATA TGGGATGAGGGTGCCAATACTATGACT GAGAGTGAGGCAGATGTTAGCAGTTTG ATTGATGATCTTGGGCTTCGAGATAAAC AGCAGTTTCCAATTTCACAGCACAAGCG GTACATTGTAAGAAATGGAAAACCTGTA TTGATACCTTCTAACCCAATTGCACTGAT TAGCA
691	Ambrosia trifida	PPOX_B30_2	cDNA Contig	176	375	TGCTAATCAGTGCAATTGGGTTAGAAGG TATCAATACAGGTTTTCCATTTCTTACAA TGTACCGCTTGTGCTGTGAAATTGGAAA CTGCTGTTTATCTCGAAGCCCAAGATCAT CAATCAAACTGCTAACATCTGCCTCACTC TCAGTCATAGTATTGGCACCCTCATCCCA TATTAAACCATCTTGCGAAACGCTCTTT
692	Ambrosia trifida	PPOX_B30_3	cDNA Contig	351	550	TCTAACCCAATTGCACTGATTAGCAGCA GTTTTCTTTCCACTCAGTCAAAGGTTCAA ATTCTTTTAGAGCCATTTTTATGGAAGAA GACTAAGTCATCTGACGAACCCGAGAGT GTTGGAGGATTCTTTCAACGTCATTTTG GGAAGGAGGTTGTTGAGTATCTCATTGA TCCAGTTGTTGCGGGAACAAGCGGTGG AGA
693	Ambrosia trifida	PPOX_B30_3	cDNA Contig	351	550	TCTCCACCGCTTGTTCCCGCAACAACTGG ATCAATGAGATACTCAACAACCTCCTTCC CAAAATGACGTTGAAAGAATCCTCCAAC ACTCTCGGGTTCGTCAGATGACTTAGTC TTCTTCCATAAAAATGGCTCTAAAAGAA TTTGAACCTTTGACTGAGTGGAAAGAAA ACTGCTGCTAATCAGTGCAATTGGGTTA GA
694	Ambrosia trifida	PPOX_B30_4	cDNA Contig	526	725	TTGTTGCGGGAACAAGCGGTGGAGATC CTGAATCACTCTCTATGCGTCATGCATTT CCTGAGCTATGGGATTTAGAGAGAAGG TTTGGTTCAATCATTTCTGGGGCATTTCA

						ATCTATGGTATCTTCCAGAGGTGGGAAA AGGAAACCTTCTGGAAACAGCAAACGT AGGCGTGGTTCCTTTTCTTTTTTTGGTGG GATG
695	Ambrosia trifida	PPOX_B30_4	cDNA Contig	526	725	CATCCCACCAAAAAAAGAAAAGGAACC ACGCCTACGTTTGCTGTTTCCAGAAGGT TTCCTTTTCCCACCTCTGGAAGATACCAT AGATTGAAATGCCCCAGAAATGATTGAA CCAAACCTTCTCTCTAAATCCCATAGCTC AGGAAATGCATGACGCATAGAGAGTGA TTCAGGATCTCCACCGCTTGTTCCCGCAA CAA
696	Ambrosia trifida	PPOX_B30_5	cDNA Contig	701	900	TTCCTTTTCTTTTTTTGGTGGGATGCAGA CACTCACTGATGCACTATGCAAAGAGAT TGGACCCCATGAAGTTAATCTTCAATCA AAGGTGCTTGAAATGTCCTACAGCTGCG ATGATAATGCGGTTGGTAATTGGTCAAT TTATTGTGCTCCAGATCAAAACAAACAA TTTCAGCAATCTTTTGATGCTGTGATCAT GA
697	Ambrosia trifida	PPOX_B30_5	cDNA Contig	701	900	TCATGATCACAGCATCAAAAGATTGCTG AAATTGTTTGTTTTGATCTGGAGCACAAT AAATTGACCAATTACCAACCGCATTATC ATCGCAGCTGTAGGACATTTCAAGCACC TTTGATTGAAGATTAACTTCATGGGGTC CAATCTCTTTGCATAGTGCATCAGTGAG TGTCTGCATCCCACCAAAAAAAGAAAAG GAA
698	Ambrosia trifida	PPOX_B29_1	cDNA Contig	1	200	GGAACATCAACCAGATAAGACTTTCCCC CAATAAAAATGTCATCTCTCACAAACCTC CCTTCCCTGAACCACTACCGCACCTGGTC TTCCCCACCCATTCCCCATCGAACCCAAT CATCCAAACCCCCTAACCACCTAACCACC TATGGTCCCACCAATAACAACCACAACA GACGTACAACAACAACCTTCCGTTGCTC
699	Ambrosia trifida	PPOX_B29_1	cDNA Contig	1	200	GAGCAACGGAAGGTTGTTGTTGTACGTC TGTTGTGGTTGTTATTGGTGGGACCATA GGTGGTTAGGTGGTTAGGGGGTTTGGA TGATTGGGTTCGATGGGGAATGGGTGG GGAAGACCAGGTGCGGTAGTGGTTCAG GGAAGGGAGGTTTGTGAGAGATGACAT TTTTATTGGGGGAAAGTCTTATCTGGTT GATGTTCC
700	Ambrosia trifida	PPOX_B29_2	cDNA Contig	176	375	GTACAACAACAACCTTCCGTTGCTCAAT AGCCAACGACACTCCAATCTCTCCTCCAA TTACCAACGACTCCAATTCTAAACCCTTA CTGGACTGTGTTATTATTGGTGCTGGAA

						TCAGTGGTCTCTGCATTGCCCAAGCCCT AGCTACTAAACATGCTGACGTGTCACCT GATGTGGTTGTTACGGAAGCACGTGATA GG
701	Ambrosia trifida	PPOX_B29_2	cDNA Contig	176	375	CCTATCACGTGCTTCCGTAACAACCACAT CAGGTGACACGTCAGCATGTTTAGTAGC TAGGGCTTGGGCAATGCAGAGACCACT GATTCCAGCACCAATAATAACACAGTCC AGTAAGGGTTTAGAATTGGAGTCGTTG GTAATTGGAGGAGAGATTGGAGTGTCG TTGGCTATTGAGCAACGGAAGGTTGTTG TTGTAC
702	Ambrosia trifida	PPOX_B29_3	cDNA Contig	351	550	GGTTGTTACGGAAGCACGTGATAGGGT TGGAGGTAATATATCGACGGTTGAACGT GATGGATATTTGTGGGAAGAAGGTCCG AATAGTTTTCAACCGTCTGATCCGATGCT CACTATGGTGGTGGATAGTGGGTTGAA AGATGATTTGGTTTTAGGGGACCCCACT GCACCACGGTTTGTATTGTGGGGTGGTG GTTTGA
703	Ambrosia trifida	PPOX_B29_3	cDNA Contig	351	550	TCAAACCACCACCCCACAATACAAACCG TGGTGCAGTGGGGTCCCCTAAAACCAAA TCATCTTTCAACCCACTATCCACCACCAT AGTGAGCATCGGATCAGACGGTTGAAA ACTATTCGGACCTTCTTCCCACAAATATC CATCACGTTCAACCGTCGATATATTACCT CCAACCCTATCACGTGCTTCCGTAACAAC C
704	Ambrosia trifida	PPOX_B29_4	cDNA Contig	526	725	TTTGTATTGTGGGGTGGTGGTTTGAAGC CAGTGCCTTCCAGTCCAGCTGATTTGCCT TTCTTTGATCTAATGAGCTTTACTGGAAA ACTCAGAGCCGGTTTTGGTGCTCTAGGG ATCCGCCCTCCACCACCAGATCGTGAGG AATCTGTTGAAGAATTTGTTCGGCGTAA CCTTGGTGATGAAGTTTTTGAACGCTTA AT
705	Ambrosia trifida	PPOX_B29_4	cDNA Contig	526	725	ATTAAGCGTTCAAAAACTTCATCACCAA GGTTACGCCGAACAAATTCTTCAACAGA TTCCTCACGATCTGGTGGTGGAGGGCG GATCCCTAGAGCACCAAAACCGGCTCTG AGTTTTCCAGTAAAGCTCATTAGATCAA AGAAAGGCAAATCAGCTGGACTGGAAG GCACTGGCTTCAAACCACCACCCCACAA TACAAA
706	Ambrosia trifida	PPOX_B29_5	cDNA Contig	701	900	GTGATGAAGTTTTTGAACGCTTAATAGA ACCATTTTGTTCAGGTGTTTATGCTGGC GACCCATCAAAACTTAGTATGAAAGCAG

						CATTTGGTAAAGTTTGGAAGCTGGAGAA GAATGGTGGTAGCATTATTGGTGGAGC ATTCAAAGCAATCCAAGCAAAAATAAGA GTACCAAGCCTCCTCGGGACCCGAGATT ACCAA
707	Ambrosia trifida	PPOX_B29_5	cDNA Contig	701	900	TTGGTAATCTCGGGTCCCGAGGAGGCTT GGTACTCTTATTTTTGCTTGGATTGCTTT GAATGCTCCACCAATAATGCTACCACCA TTCTTCTCCAGCTTCCAAACTTTACCAAA TGCTGCTTTCATACTAAGTTTTGATGGGT CGCCAGCATAAACACCTGAACAAAATGG TTCTATTAAGCGTTCAAAAACTTCATCAC
708	Ambrosia trifida	PPOX_B29_6	cDNA Contig	876	1075	CCTCCTCGGGACCCGAGATTACCAACAC CAAAGGGCCAAACTGTTGGATCTTTTAG GAAGGGACAAGCCATGTTGCCCAATGC CATCTCAAAACGTTTGGGTAGCAGAGTG AAAGTGTCATGGAAGCTAATAAATATCT CAAAGTTGGAGAATAGAGGTTATAATCT GACTTACGAAACACCAAATGGATTTGCA AGTCT
709	Ambrosia trifida	PPOX_B29_6	cDNA Contig	876	1075	AGACTTGCAAATCCATTTGGTGTTTCGTA AGTCAGATTATAACCTCTATTCTCCAACT TTGAGATATTTATTAGCTTCCATGACACT TTCACTCTGCTACCCAAACGTTTTGAGAT GGCATTGGGCAACATGGCTTGTCCCTTC CTAAAAGATCCAACAGTTTGGCCCTTTG GTGTTGGTAATCTCGGGTCCCGAGGAG G
710	Ambrosia trifida	PPOX_B29_7	cDNA Contig	1051	1250	AAACACCAAATGGATTTGCAAGTCTGCA AACTAAAACTGTTGTCATGACTGTTCCTT CCTACGTGGCGAGTGACTTGTTGCGTCC TCTTTCGTCGGAAGCAGCAGAGGCTTTG TCCAAATTTTATTACCCTCCAGTTGCTGC TGTATCTGTTTCCTATCCAAAAGAAGCG ATTCGTGCTGACCGTTTGATCGATGGTC AA
711	Ambrosia trifida	PPOX_B29_7	cDNA Contig	1051	1250	TTGACCATCGATCAAACGGTCAGCACGA ATCGCTTCTTTTGGATAGGAAACAGATA CAGCAGCAACTGGAGGGTAATAAAATTT GGACAAAGCCTCTGCTGCTTCCGACGAA AGAGGACGCAACAAGTCACTCGCCACG TAGGAAGGAACAGTCATGACAACAGTTT TAGTTTGCAGACTTGCAAATCCATTTGGT GTTT
712	Ambrosia trifida	PPOX_B29_8	cDNA Contig	1226	1425	TGCTGACCGTTTGATCGATGGTCAACTT AAGGGTTTTGGTCAATTACATCCAAGAA GTCAAGGCGTTGAGACTTTAGGTACCAT

						CTATAGCTCATCCCTTTTCCCTAACCGGG CGCCACCTGGAAGGGTTCTCCTCCTTAA CTACATTGGAGGGGCTACAAATCCTGGT ATTTTGTCGAAGACGGAGAGTGAACTTG TGG
713	Ambrosia trifida	PPOX_B29_8	cDNA Contig	1226	1425	CCACAAGTTCACTCTCCGTCTTCGACAAA ATACCAGGATTTGTAGCCCCTCCAATGT AGTTAAGGAGGAGAACCCTTCCAGGTG GCGCCCGGTTAGGGAAAAGGGATGAGC TATAGATGGTACCTAAAGTCTCAACGCC TTGACTTCTTGGATGTAATTGACCAAAA CCCTTAAGTTGACCATCGATCAAACGGT CAGCA
714	Ambrosia trifida	PPOX_B29_9	cDNA Contig	1401	1600	TCGAAGACGGAGAGTGAACTTGTGGAA GCAGTTGACCGTGACCTAAGGAAGATG CTCATAAACCCTAGAGCAGGCGAACCGT TGACTTTGGGGGTCAAAGTGTGGCCTCG AGCAATCCCACAGTTTCTAATTGGTCATT TTGACATTTTGGATGCTGCAAAATTTGCT CTTAGTGAAGGTGGATATAGAGGTATGT TTCT
715	Ambrosia trifida	PPOX_B29_9	cDNA Contig	1401	1600	AGAAACATACCTCTATATCCACCTTCACT AAGAGCAAATTTTGCAGCATCCAAAATG TCAAAATGACCAATTAGAAACTGTGGGA TTGCTCGAGGCCACACTTTGACCCCCAA AGTCAACGGTTCGCCTGCTCTAGGGTTT ATGAGCATCTTCCTTAGGTCACGGTCAA CTGCTTCCACAAGTTCACTCTCCGTCTTC GA
716	Ambrosia trifida	PPOX_B29_10	cDNA Contig	1576	1775	AAGGTGGATATAGAGGTATGTTTCTTGG AGGCAACTATGTTTCTGGTGTGGCTTTA GGTCGATGCGTGGAGAGTGCTTATGAC GTTGCAGCCGATGTAAGTACATTTTTGT CACGAGGCGTGTATAAGTGATACTGTTA TGTAGCACTTTGGAATACTTTCTTGTGAG GTTAGTGGTTACCTTTTTGTCACAAGGC AGGT
717	Ambrosia trifida	PPOX_B29_10	cDNA Contig	1576	1775	ACCTGCCTTGTGACAAAAAGGTAACCAC TAACCTCACAAGAAAGTATTCCAAAGTG CTACATAACAGTATCACTTATACACGCCT CGTGACAAAAATGTACTTACATCGGCTG CAACGTCATAAGCACTCTCCACGCATCG ACCTAAAGCCACACCAGAAACATAGTTG CCTCCAAGAAACATACCTCTATATCCACC TT
718	Ambrosia trifida	PPOX_B33_1	gDNA Contig	1	200	TTGCGCCTCGGTTTTGGACCTCGTCGCTT TAGTGCGCTTCGCGCTTTTTAAAACCAA

						GCTTCTATCGAGTTTAATGACTAAAATTT AGTAAAATATAATGACCAATATGGAAG GTATTTCATGACAATTAACCCTAAATATA TTAGGTAACCACAAAGGAGGGCTCTCTG TTGGGAAAGCAATATCCTCCGGATGCAA AG
719	Ambrosia trifida	PPOX_B33_1	gDNA Contig	1	200	CTTTGCATCCGGAGGATATTGCTTTCCCA ACAGAGAGCCCTCCTTTGTGGTTACCTA ATATATTTAGGGTTAATTGTCATGAAAT ACCTTCCATATTGGTCATTATATTTTACT AAATTTTAGTCATTAAACTCGATAGAAG CTTGGTTTTAAAAAGCGCGAAGCGCACT AAAGCGACGAGGTCCAAAACCGAGGCG CAA
720	Ambrosia trifida	PPOX_B33_2	gDNA Contig	176	375	AAAGCAATATCCTCCGGATGCAAAGCAG CCGAATCCGTGATTGCATATTTGGATTCT TATTCGGACCAGAAGTAGAAGGATGGG TGTTGCTAGATGATGTTTTAACTGGTAA ACTTTATTTCTTATATCTTATTTTTTTCTT ATTTTTCAATGCAAAGAGTCAAACGGCG CAAGTGTAATATCAGGATTGGCCGGAG AA
721	Ambrosia trifida	PPOX_B33_2	gDNA Contig	176	375	TTCTCCGGCCAATCCTGATATTACACTTG CGCCGTTTGACTCTTTGCATTGAAAAATA AGAAAAAAAATAAGATATAAGAAATAA AGTTTACCAGTTAAAACATCATCTAGCA ACACCCATCCTTCTACTTCTGGTCCGAAT AAGAATCCAAATATGCAATCACGGATTC GGCTGCTTTGCATCCGGAGGATATTGCT TT
722	Ambrosia trifida	PPOX_B33_3	gDNA Contig	351	550	TGTAATATCAGGATTGGCCGGAGAATGT AGATCAAAAGAGTTTTTGTTCGCTCGAG GTTGGATAAATTTGACGAAAATTCAGCA TGGCTTTTCGCTTTGTGTTTTTGAAGGTG AGCAAGGATGGTGTTGTATAAACTTATT GTTGAGTAAATTATAACTAATGACATGT TTGAATAATGTGTTAGAAAAAAATGAAT CTT
723	Ambrosia trifida	PPOX_B33_3	gDNA Contig	351	550	AAGATTCATTTTTTTCTAACACATTATTC AAACATGTCATTAGTTATAATTTACTCAA CAATAAGTTTATACAACACCATCCTTGCT CACCTTCAAAAACACAAAGCGAAAAGCC ATGCTGAATTTTCGTCAAATTTATCCAAC CTCGAGCGAACAAAAACTCTTTTGATCT ACATTCTCCGGCCAATCCTGATATTACA
724	Ambrosia trifida	PPOX_B33_4	gDNA Contig	526	725	AATGTGTTAGAAAAAAATGAATCTTATA ATTGAAAATAATATGATCAATTTATGAT

						AGTGTTTTCATGTTAGATATAATCAAAGT ATGAAATCTTATATCCTAAGAATGGTTAT ATATGGTTTAGTAGGTTAAGTGTGTTTT GACAATGATGCATAATAAGGATTTAACT TGGAGAAACGGTGACGTGGACAGCTTG AAG
725	Ambrosia trifida	PPOX_B33_4	gDNA Contig	526	725	CTTCAAGCTGTCCACGTCACCGTTTCTCC AAGTTAAATCCTTATTATGCATCATTGTC AAAACACACTTAACCTACTAAACCATATA TAACCATTCTTAGGATATAAGATTTCATA CTTTGATTATATCTAACATGAAAACACTA TCATAAATTGATCATATTATTTTCAATTA TAAGATTCATTTTTTTCTAACACATT
726	Ambrosia trifida	PPOX_B31_1	cDNA Contig	1	200	TTTCTAGCAATCTTTTGATGCTGTGATCA TGACTGCCCCACTTAACAATGTAAAAGA AATGAAGATTACAAAGACAGGAAGTCC GTTTCTGCTTAATTTTATTCCAGAGGTGA GTTATTTGCCAATATCAGTAATAATCTCC ACTTTCAAGAAAGAAAACGTGAAGCAG CCTCTTGAGGGTTTTGGAGTTCTTGTTCC TG
727	Ambrosia trifida	PPOX_B31_1	cDNA Contig	1	200	CAGGAACAAGAACTCCAAAACCCTCAAG AGGCTGCTTCACGTTTTCTTTCTTGAAAG TGGAGATTATTACTGATATTGGCAAATA ACTCACCTCTGGAATAAAATTAAGCAGA AACGGACTTCCTGTCTTTGTAATCTTCAT TTCTTTTACATTGTTAAGTGGGGCAGTCA TGATCACAGCATCAAAAGATTGCTAGAA A
728	Ambrosia trifida	PPOX_B31_2	cDNA Contig	176	375	GAGGGTTTTGGAGTTCTTGTTCCTGCCA AGGAGCAGGAAAATGGTTTGAGGACAC TAGGCACCCTCTTCTCTTCCATGATGTTT CCAGATCGGGCCTCAGAAGACGTGTACC TTTACACCACCTTTGTTGGGGGTAGTCG AAACAAAGAACTGGCCAAAGCTTCGAG GGACGAGTTGAAGCAGATAGTAACTTCT GACCT
729	Ambrosia trifida	PPOX_B31_2	cDNA Contig	176	375	AGGTCAGAAGTTACTATCTGCTTCAACT CGTCCCTCGAAGCTTTGGCCAGTTCTTTG TTTCGACTACCCCCAACAAAGGTGGTGT AAAGGTACACGTCTTCTGAGGCCCGATC TGGAAACATCATGGAAGAGAAGAGGGT GCCTAGTGTCCTCAAACCATTTTCCTGCT CCTTGGCAGGAACAAGAACTCCAAAACC CTC
730	Ambrosia trifida	PPOX_B31_3	cDNA Contig	351	550	TGAAGCAGATAGTAACTTCTGACCTCAG ACAGTTGCTTGGAACAGAAGGGGAGCC

						AAAATTTCTAACTCACTATTATTGGAGCA AAGCATTTCCATTGTATGGGCGTGACTA TGGTTCAGTTATTGAAGCAATTGAGAAG ATGGAAAAAGAGCTACCCGGTTACTTTT ATGCAGGTAACCACAAAGGAGGGCTCT CTGTT
731	Ambrosia trifida	PPOX_B31_3	cDNA Contig	351	550	AACAGAGAGCCCTCCTTTGTGGTTACCT GCATAAAAGTAACCGGGTAGCTCTTTTT CCATCTTCTCAATTGCTTCAATAACTGAA CCATAGTCACGCCCATACAATGGAAATG CTTTGCTCCAATAATAGTGAGTTAGAAA TTTTGGCTCCCCTTCTGTTCCAAGCAACT GTCTGAGGTCAGAAGTTACTATCTGCTT CA
732	Ambrosia trifida	PPOX_B31_4	cDNA Contig	526	725	TAACCACAAAGGAGGGCTCTCTGTTGGG AAAGCAATATCCTCCGGATGCAAAGCAG CCGAATCCGTGATTGCATATTTGGATTCT TATTCGGACCAGAAGTAGAAGGATGGG TGTTGCTAGATGATGTTTTAACTGGATT GGCCGGAGAATGTAGATCAAAAGAGTT TTTGTTCGCTAGAGCGAGGATAAATTTG ACGAA
733	Ambrosia trifida	PPOX_B31_4	cDNA Contig	526	725	TTCGTCAAATTTATCCTCGCTCTAGCGAA CAAAAACTCTTTTGATCTACATTCTCCGG CCAATCCAGTTAAAACATCATCTAGCAA CACCCATCCTTCTACTTCTGGTCCGAATA AGAATCCAAATATGCAATCACGGATTCG GCTGCTTTGCATCCGGAGGATATTGCTT TCCCAACAGAGAGCCCTCCTTTGTGGTT A
734	Chenopodium album	PPOX_B35_1	cDNA Contig	1	200	AACCCTCAAAAGAAAATTTTCACTGCAA TCTTTGTAGCCTTCTTGTTAGCAAAATAC TCGGACAACTAATCCTAGCAACAGCGCT ATTTGTTTGAGTATTGTGAGAGGTAATC CACTACCTCAGCTGCAGATTCATAAGCA CCCTCTATACATCGCCCCAATGCAACACC TGAAACATAGTTGCCACCAAGAAACAAT CC
735	Chenopodium album	PPOX_B35_1	cDNA Contig	1	200	GGATTGTTTCTTGGTGGCAACTATGTTTC AGGTGTTGCATTGGGGCGATGTATAGA GGGTGCTTATGAATCTGCAGCTGAGGTA GTGGATTACCTCTCACAATACTCAAACA AATAGCGCTGTTGCTAGGATTAGTTGTC CGAGTATTTTGCTAACAAGAAGGCTACA AAGATTGCAGTGAAAATTTTCTTTTGAG GGTT
736	Chenopodiu	PPOX_B35_2	cDNA	176	375	CATAGTTGCCACCAAGAAACAATCCCTT

	m album		Contig			GAACCCAGCATCAGTTAGAGCTGCTTTT GCAGCATCAAGCAGATCAAAGTGGCCA ATCAAAAATTGTGGAATTGCTTGGGGCC ATACTCTCACGCCCAAAACCCGGGGATC TTTTGCATTAGGATTTATGAGAATGTTTC TCAAGTCCTTGTCAACTGCCCCAGCAAG TTCA
737	Chenopodium album	PPOX_B35_2	cDNA Contig	176	375	TGAACTTGCTGGGGCAGTTGACAAGGA CTTGAGAAACATTCTCATAAATCCTAATG CAAAAGATCCCCGGGTTTTGGGCGTGA GAGTATGGCCCCAAGCAATTCCACAATT TTTGATTGGCCACTTTGATCTGCTTGATG CTGCAAAAGCAGCTCTAACTGATGCTGG GTTCAAGGGATTGTTTCTTGGTGGCAAC TATG
738	Chenopodium album	PPOX_B35_3	cDNA Contig	351	550	CTTGTCAACTGCCCCAGCAAGTTCATCTT GCGTCTTGTGTAATATACTAGTGTTTGTA GAACCTCCAATGTAACTCAAAATTAAGG TCCTACCAGGTGGTGCTCGACCAGGGAA AAGCGATGAACTATAAATTGATCCCAAG GTTTCAACACCCTGACTGCGGGGATGCA ATTGCCCAAATCCTTGAAGTTTACCATCA A
739	Chenopodium album	PPOX_B35_3	cDNA Contig	351	550	TTGATGGTAAACTTCAAGGATTTGGGCA ATTGCATCCCCGCAGTCAGGGTGTTGAA ACCTTGGGATCAATTTATAGTTCATCGCT TTTCCCTGGTCGAGCACCACCTGGTAGG ACCTTAATTTTGAGTTACATTGGAGGTTC TACAAACACTAGTATATTACACAAGACG CAAGATGAACTTGCTGGGGCAGTTGAC AAG
740	Chenopodium album	PPOX_B35_4	cDNA Contig	526	725	CCAAATCCTTGAAGTTTACCATCAATCAA ACACTCTGATCTAATTGCTTCACTAGGAT AAGAAAGTGACACAGCTGCAACTGGTG GATAGTAGAACTTTGCAAGTGATTCTGC AGCAACATCTGAAAGTGGACGAAGGAG GCTACTTGCAATATGTGATGGGACAGTC ATCACAACACTTTTGGTCCGTACAGAAA CCAG
741	Chenopodium album	PPOX_B35_4	cDNA Contig	526	725	CTGGTTTCTGTACGGACCAAAAGTGTTG TGATGACTGTCCCATCACATATTGCAAG TAGCCTCCTTCGTCCACTTTCAGATGTTG CTGCAGAATCACTTGCAAAGTTCTACTAT CCACCAGTTGCAGCTGTGTCACTTTCTTA TCCTAGTGAAGCAATTAGATCAGAGTGT TTGATTGATGGTAAACTTCAAGGATTTG G

742	Chenopodium album	PPOX_B35_5	cDNA Contig	701	900	CACTTTTGGTCCGTACAGAAACCAGTCC ATCTGGTGTTTCATAAGTCAGATTATATT CTCCATTTGGCAACTTAACAATACTAGA AAGGGTCCATGATAGTTTCACTTTGCTG CCAAGCCTTTCAGAAATGGCTGTAGGCA ACATAGTGAGTCCTTTCCTGAAGGATCC AACTGTCTGGCCCTTAGGTTTAGGGAGG CGC
743	Chenopodium album	PPOX_B35_5	cDNA Contig	701	900	GCGCCTCCCTAAACCTAAGGGCCAGACA GTTGGATCCTTCAGGAAAGGACTCACTA TGTTGCCTACAGCCATTTCTGAAAGGCTT GGCAGCAAAGTGAAACTATCATGGACC CTTTCTAGTATTGTTAAGTTGCCAAATGG AGAATATAATCTGACTTATGAAACACCA GATGGACTGGTTTCTGTACGGACCAAAA GTG
744	Chenopodium album	PPOX_B35_6	cDNA Contig	876	1075	CTGGCCCTTAGGTTTAGGGAGGCGCGG GTCTCGAGGTGGCTTTGGATTGTTCTTTC TTTCCTGGATTGTTTTGAGGGTACCACCA ATGATACTACCACCCTTTTGTTCCAAGAT CCAAACTTTGCCAAAAGCAGCTTTCATA CTCAACTTGGAAGGATCGCCAGCATACA CGCCTGAACAAAAGGGTTCAATCAAGC GTT
745	Chenopodium album	PPOX_B35_6	cDNA Contig	876	1075	AACGCTTGATTGAACCCTTTTGTTCAGGC GTGTATGCTGGCGATCCTTCCAAGTTGA GTATGAAAGCTGCTTTTGGCAAAGTTTG GATCTTGGAACAAAAGGGTGGTAGTAT CATTGGTGGTACCCTCAAAACAATCCAG GAAAGAAAGAACAATCCAAAGCCACCTC GAGACCCGCGCCTCCCTAAACCTAAGGG CCAG
746	Chenopodium album	PPOX_B35_7	cDNA Contig	1051	1250	GAACAAAAGGGTTCAATCAAGCGTTCAA ATACTTCATCAGCCCAGATTACGACGGA CAAAATCTTCAACAGATTCCTCGTGAGC TGGAGGAGAAGGACGTAAGCCAAGAGC ACCGAGTCCAGACCTAATCTTGCCAGGG AAGCTCATAAGGTCAAAGAAAGGGAGG TCAGTGGGCTTGGACGGTACAGGCCTCA ATTTGC
747	Chenopodium album	PPOX_B35_7	cDNA Contig	1051	1250	GCAAATTGAGGCCTGTACCGTCCAAGCC CACTGACCTCCCTTTCTTTGACCTTATGA GCTTCCCTGGCAAGATTAGGTCTGGACT CGGTGCTCTTGGCTTACGTCCTTCTCCTC CAGCTCACGAGGAATCTGTTGAAGATTT TGTCCGTCGTAATCTGGGCTGATGAAGT ATTTGAACGCTTGATTGAACCCTTTTGTT

						C
748	Chenopodium album	PPOX_B35_8	cDNA Contig	1226	1425	TTGGACGGTACAGGCCTCAATTTGCCATTCCACAACACAAAACGAGGGGCGTTAGGATCTCCAAACACCAATTCATCTTTCAATCCACTGTCAACAGCCATGGTGAGCACTGCATCAGATGGCTGGAAGCTGTTAGGTCCCTCTTCCCAGATATAGCCATCGGCCTCCACAGTAGTGATGTTTCCACCAACTCGATCTTT
749	Chenopodium album	PPOX_B35_8	cDNA Contig	1226	1425	AAAGATCGAGTTGGTGGAAACATCACTACTGTGGAGGCCGATGGCTATATCTGGGAAGAGGGACCTAACAGCTTCCAGCCATCTGATGCAGTGCTCACCATGGCTGTTGACAGTGGATTGAAAGATGAATTGGTGTTTGGAGATCCTAACGCCCCTCGTTTTGTGTTGTGGAATGGCAAATTGAGGCCTGTACCGTCCAA
750	Chenopodium album	PPOX_B35_9	cDNA Contig	1401	1600	TGATGTTTCCACCAACTCGATCTTTAGCCTCCGTGACAATGAAATTTGGGGAGCGGGAGGAGTATTTTGTAGAGAGAGCTTGTGCAATGCCAAGACCACTGATTCCACCACCCACAATCACACAGTCAAGTACTTCAGCGCCATCGATTCCAACAGTAGCAGTGTTTGTGTTCTGGTAATTGACTGCTGAATTTGAGGTC
751	Chenopodium album	PPOX_B35_9	cDNA Contig	1401	1600	GACCTCAAATTCAGCAGTCAATTACCAGAACACAAACACTGCTACTGTTGGAATCGATGGCGCTGAAGTACTTGACTGTGTGATTGTGGGTGGTGGAATCAGTGGTCTTGGCATTGCACAAGCTCTCTCTACAAAATACTCCTCCCGCTCCCCAAATTTCATTGTCACGGAGGCTAAAGATCGAGTTGGTGGAAACATCA
752	Commelina diffusa	PPOX_B50_1	gDNA Contig	1	200	AATTTTCTTGTGTTATGGGGGAAAAAATCTATATTGTCATAAAGAGAAAAAAAAATTGAATATACAAACCACAACAATTAGATTGCTTTTTCCCTACTATATGGGGTTAGCTATATGAATCTTAGTTTGCATTTTTTCTTATCTAAAAACCATTTCTTTAGATGGCCCTAGATAAGACAGTCACCTTTTAGGACTTCGTG
753	Commelina diffusa	PPOX_B50_1	gDNA Contig	1	200	CACGAAGTCCTAAAAGGTGACTGTCTTATCTAGGGCCATCTAAAGAAATGGTTTTTAGATAAGAAAAAATGCAAACTAAGATTCATATAGCTAACCCCATATAGTAGGGAAAAAGCAATCTAATTGTTGTGGTTTGTATATTCAATTTTTTTTTCTCTTTATGACAATATA

						GATTTTTTCCCCCATAACACAAGAAAATT
754	Commelina diffusa	PPOX_B50_2	gDNA Contig	176	375	GACAGTCACCTTTTAGGACTTCGTGAAG TGACTTTTTTTTTTGGTTATATACCATGG TTGCAAGTCTCAGCCAATACCAATACGT ATCATGTATCGAGATCGGTAGCTACTGT TATAGGATCGACATAGTATCTTGGATTG ACATTTGCTTGTTGGCTGGCTGGCCAAT TTTGGCCAGAGAATGGTAGGAGTTGGC CGGT
755	Commelina diffusa	PPOX_B50_2	gDNA Contig	176	375	ACCGGCCAACTCCTACCATTCTCTGGCCA AAATTGGCCAGCCAGCCAACAAGCAAAT GTCAATCCAAGATACTATGTCGATCCTAT AACAGTAGCTACCGATCTCGATACATGA TACGTATTGGTATTGGCTGAGACTTGCA ACCATGGTATATAACCAAAAAAAAAAGT CACTTCACGAAGTCCTAAAAGGTGACTG TC
756	Commelina diffusa	PPOX_B50_3	gDNA Contig	351	550	CAGAGAATGGTAGGAGTTGGCCGGTAC GACCGTAACGGTGTCAATTTCACTTGGT ATCAGCCAATATCGATCATTATGAGCTCT GACACCGTTGATATTGTATTGAAAATTA AAATTTCTATTTTAGAAAGTTAAATTTTT ATTAGTTTATTTATTTCTTGTTAACTAATA TTATCAATATTGATACGTATCAGATTTGA
757	Commelina diffusa	PPOX_B50_3	gDNA Contig	351	550	TCAAATCTGATACGTATCAATATTGATAA TATTAGTTAACAAGAAATAAATAAACTA ATAAAAATTTAACTTTCTAAAATAGAAAT TTTAATTTTCAATACAATATCAACGGTGT CAGAGCTCATAATGATCGATATTGGCTG ATACCAAGTGAAATTGACACCGTTACGG TCGTACCGGCCAACTCCTACCATTCTCTG
758	Commelina diffusa	PPOX_B50_4	gDNA Contig	526	725	CAATATTGATACGTATCAGATTTGAGGA AACAGATTTGCAGTCCTGGTCTAAACCT CTACCCTGTGTACGACTACCGAAATCTA GTATTGTAACTTTTCTAACAGGTGCATCT ACTATCTATAGAACGTCTACAAACACGT ACAAACTGCTGTAAAGGATTTTTTCCTAA ACTTGTTATTAATATGAGTCACCTATAGT T
759	Commelina diffusa	PPOX_B50_4	gDNA Contig	526	725	AACTATAGGTGACTCATATTAATAACAA GTTTAGGAAAAAATCCTTTACAGCAGTT TGTACGTGTTTGTAGACGTTCTATAGAT AGTAGATGCACCTGTTAGAAAAGTTACA ATACTAGATTTCGGTAGTCGTACACAGG GTAGAGGTTTAGACCAGGACTGCAAATC TGTTTCCTCAAATCTGATACGTATCAATA TTG

760	Commelina diffusa	PPOX_B50_5	gDNA Contig	701	900	TTATTAATATGAGTCACCTATAGTTTTCC TTGCACATACTTGTTTGGAGTTGATCTTT CCTAGTGACACCTAACTTCCACCTCAACG TTCTTATCTGTGCTAGACGCACTGTTTGG GTATCTTGCTTCTTAAGAGCCCATTATTT TCATAAATCATTGTAGACCTAATACCAAT TTTATACAATTTACCCTTAGATTTAA
761	Commelina diffusa	PPOX_B50_5	gDNA Contig	701	900	TTAAATCTAAGGGTAAATTGTATAAAAT TGGTATTAGGTCTACAATGATTTATGAA AATAATGGGCTCTTAAGAAGCAAGATAC CCAAACAGTGCGTCTAGCACAGATAAGA ACGTTGAGGTGGAAGTTAGGTGTCACTA GGAAAGATCAACTCCAAACAAGTATGTG CAAGGAAAACTATAGGTGACTCATATTA ATAA
762	Commelina diffusa	PPOX_B50_6	gDNA Contig	876	1075	TTATACAATTTACCCTTAGATTTAAGAGA CTCTACAATCACATAACATTCATGAAGTT TCTTGCCATTTTAACCATCTTGTTTTAAT GCTATTAATAATATCTTCTATATTTTCTCT ATTATCTTGAATAATGGACACAAGATAC ATAAGTTTTTTATTTCTAACCAACTATAC TCCATCTAACATAACAAATTAATTTG
763	Commelina diffusa	PPOX_B50_6	gDNA Contig	876	1075	CAAATTAATTTGTTATGTTAGATGGAGT ATAGTTGGTTAGAAATAAAAAACTTATG TATCTTGTGTCCATTATTCAAGATAATAG AGAAAATATAGAAGATATTATTAATAGC ATTAAAACAAGATGGTTAAAATGGCAA GAAACTTCATGAATGTTATGTGATTGTA GAGTCTCTTAAATCTAAGGGTAAATTGT ATAA
764	Commelina diffusa	PPOX_B50_7	gDNA Contig	1051	1250	CCATCTAACATAACAAATTAATTTGTTCT TGTCCTACTATTAATATTTCGTTTCATATA TTTTGTTTTAACTCTACTTCATTTAAAACT AAAATTACATGCTGGAACTGAGGTTCTA ATCTTAAGTTAACACCTTCTGCTCTCTCA TCATATAAAACTTCTCAACAAAAAATTTA TGCCAAGGAATATCATTCTAGATAT
765	Commelina diffusa	PPOX_B50_7	gDNA Contig	1051	1250	ATATCTAGAATGATATTCCTTGGCATAA ATTTTTTGTTGAGAAGTTTTATATGATGA GAGAGCAGAAGGTGTTAACTTAAGATT AGAACCTCAGTTCCAGCATGTAATTTTA GTTTTAAATGAAGTAGAGTTAAAACAAA ATATATGAAACGAAATATTAATAGTAGG ACAAGAACAAATTAATTTGTTATGTTAG ATGG
766	Commelina diffusa	PPOX_B50_8	gDNA Contig	1226	1425	TGCCAAGGAATATCATTCTAGATATGCC AAAGTCAATAGAAGATATGAATTTAAAG

						AACCTTGGTGGACTCCTATTGTGATAGG AGATCTATTGAACTTTCTTACTTATTTTTA ATTATGTCTTATATCTACTAGAAACCATT TGCTTTTCTAAGATCTACCAAAGAACATC CATAGGTATTCTATCATATGCATTTTCT
767	Commelina diffusa	PPOX_B50_8	gDNA Contig	1226	1425	AGAAAATGCATATGATAGAATACCTATG GATGTTCTTTGGTAGATCTTAGAAAAGC AAATGGTTTCTAGTAGATATAAGACATA ATTAAAAATAAGTAAGAAAGTTCAATAG ATCTCCTATCACAATAGGAGTCCACCAA GGTTCTTTAAATTCATATCTTCTATTGAC TTTGGCATATCTAGAATGATATTCCTTGG CA
768	Commelina diffusa	PPOX_B50_9	gDNA Contig	1401	1600	AGGTATTCTATCATATGCATTTTCTGAGT CAATAAGAACCATATACATGTCTTTGTTC CTATTTCTAAGCGTTTGTACTAATTGCCT TGATAAACTGATAGTGGTAGGTATAAAT CCAAAATGATTATTAGAAATATTAGTTTC ACATCTTAGTCGTTGTTCTGTCACTATTC TTTTCCTACTTTCATCTTCCTAAGAGC
769	Commelina diffusa	PPOX_B50_9	gDNA Contig	1401	1600	GCTCTTAGGAAGATGAAAGTAGGAAAA GAATAGTGACAGAACAACGACTAAGAT GTGAAACTAATATTTCTAATAATCATTTT GGATTTATACCTACCACTATCAGTTTATC AAGGCAATTAGTACAAACGCTTAGAAAT AGGAACAAAGACATGTATATGGTTCTTA TTGACTCAGAAAATGCATATGATAGAAT ACCT
770	Commelina diffusa	PPOX_B50_10	gDNA Contig	1576	1775	TTCCTACTTTCATCTTCCTAAGAGCATCTT TTACTTCACAAGTCCTGATGTTTTGAATA TAAGTAGTTCTTTTTTTTTTTAATTAGTG GAATTTACCTGTAAAACTATGTCTAGCA AGGCTCTCTCCAAGTGTAACTTTATAATC CTCATAAATCCTCTGATCACCATTTCTAG TGAGAAAAGGAAATCAATTTGGCCCC
771	Commelina diffusa	PPOX_B50_10	gDNA Contig	1576	1775	GGGGCCAAATTGATTTCCTTTTCTCACTA GAAATGGTGATCAGAGGATTTATGAGG ATTATAAAGTTACACTTGGAGAGAGCCT TGCTAGACATAGTTTTACAGGTAAATTC CACTAATTAAAAAAAAAAAGAACTACTT ATATTCAAAACATCAGGACTTGTGAAGT AAAAGATGCTCTTAGGAAGATGAAAGT AGGAA
772	Commelina diffusa	PPOX_B50_11	gDNA Contig	1751	1950	GAGAAAAGGAAATCAATTTGGCCCCTAC TAGAACTATCCTTAAAAGTAATTAAATG ACAGTCTCTCTTTCCATATAGAATAATGA TTACCACCGTATTGTACGATAAAGCAGA

						TTCTAAAATTTTGACCTTTACATTATTCAT CTCCCCATACCCATAATCACCACAAGTAA ACTTAATTTTCCTACTATCTTTTGCCTA
773	Commelina diffusa	PPOX_B50_11	gDNA Contig	1751	1950	TAGGCAAAAGATAGTAGGAAAATTAAG TTTACTTGTGGTGATTATGGGTATGGGG AGATGAATAATGTAAAGGTCAAAATTTT AGAATCTGCTTTATCGTACAATACGGTG GTAATCATTATTCTATATGGAAAGAGAG ACTGTCATTTAATTACTTTTAAGGATAGT TCTAGTAGGGGCCAAATTGATTTCCTTTT CTC
774	Commelina diffusa	PPOX_B50_12	gDNA Contig	1926	2125	TAATTTTCCTACTATCTTTTGCCTACGTGT CATGGATGAGTACCAGGGGAGGAGGA GAGGACAGGGGAAAAAGGAACAAAAT GGAATCAAAATAAAATAAAATGCTCATG CCAACAATAATGTGGCTAAAATCGGACG GAAAACTACCGATGGAAGTTTTTGCAGC ATTTAATGAAATGTTAAGTGTATTTGCTA TTTCA
775	Commelina diffusa	PPOX_B50_12	gDNA Contig	1926	2125	TGAAATAGCAAATACACTTAACATTTCAT TAAATGCTGCAAAAACTTCCATCGGTAG TTTTCCGTCCGATTTTAGCCACATTATTG TTGGCATGAGCATTTTATTTTATTTTGAT TCCATTTTGTTCCTTTTTCCCCTGTCCTCT CCTCCTCCCCTGGTACTCATCCATGACAC GTAGGCAAAAGATAGTAGGAAAATTA
776	Commelina diffusa	PPOX_B50_13	gDNA Contig	2101	2300	AATGTTAAGTGTATTTGCTATTTCAAAAA AACTCAATTATTTTTTATTGTTTTGGCAA AGGTTTAGATTTTATCTGCATTTAACTCT TATAAAACATTATGAAATGATATTTGTTA TCGACTTTCTTGCACTTTCATGTGCTAAG CGTGTCACAACTGCTGAATGCTACTATG CAGGAACAATATATAGCTCATCCCTTT
777	Commelina diffusa	PPOX_B50_13	gDNA Contig	2101	2300	AAAGGGATGAGCTATATATTGTTCCTGC ATAGTAGCATTCAGCAGTTGTGACACGC TTAGCACATGAAAGTGCAAGAAAGTCG ATAACAAATATCATTTCATAATGTTTTAT AAGAGTTAAATGCAGATAAAATCTAAAC CTTTGCCAAAACAATAAAAAATAATTGA GTTTTTTTGAAATAGCAAATACACTTAAC ATT
778	Commelina diffusa	PPOX_B50_14	gDNA Contig	2276	2475	GGAACAATATATAGCTCATCCCTTTTTCC TGGCCGAGCTCCCCAAGGGAGAATATT GCTTCTTAACTACATTGGAGGTGCTACA AATACTGGAATTGTATCAAAGGTGTTGG AACTTGACCATTTTTCAGTTTTTGTGAAG TTGCAAAAAGTTATATCCTCTACGAAAA

						CATATGCAGCTTAGGCTATCCATAATAT ATA
779	Commelina diffusa	PPOX_B50_1 4	gDNA Contig	2276	247 5	TATATATTATGGATAGCCTAAGCTGCAT ATGTTTTCGTAGAGGATATAACTTTTTGC AACTTCACAAAAACTGAAAAATGGTCAA GTTCCAACACCTTTGATACAATTCCAGTA TTTGTAGCACCTCCAATGTAGTTAAGAA GCAATATTCTCCCTTGGGGAGCTCGGCC AGGAAAAAGGGATGAGCTATATATTGTT CC
780	Commelina diffusa	PPOX_B50_1 5	gDNA Contig	2451	265 0	CAGCTTAGGCTATCCATAATATATAATCC ATTTTTAATTAGTGAAAACATATTTCCTA GGAAACCTCAATTAAAATGTCATCCATT ATGTCTACAATTGATACTTTATTTTGTTT GCTCTTCTTTTCCAGACAGTTTTTCTAGC ATTTACACCATGTTGCCACTAGGAATATT GAGTTTGGACTGGTTTTTCCATTCATT
781	Commelina diffusa	PPOX_B50_1 5	gDNA Contig	2451	265 0	AATGAATGGAAAAACCAGTCCAAACTCA ATATTCCTAGTGGCAACATGGTGTAAAT GCTAGAAAAACTGTCTGGAAAAGAAGA GCAAACAAAATAAAGTATCAATTGTAGA CATAATGGATGACATTTTAATTGAGGTT TCCTAGGAAATATGTTTTCACTAATTAAA AATGGATTATATATTATGGATAGCCTAA GCTG
782	Commelina diffusa	PPOX_B50_1 6	gDNA Contig	2626	282 5	GTTTGGACTGGTTTTTCCATTCATTGGCT AAAATTTTGTCTATTTCATTTAAACATGG AGAGGATGTTGCAAACACCTTCTAGATG TTTGAATTATCAAATCGTTCATAAAGATT TTAAGTCCCAACTAATATATGATGCTGAT TTTTCAAGTTTTTTTTATGTGCAGAATGA GAGCGAACTGGTAGAAGCAGTTGATCG
783	Commelina diffusa	PPOX_B50_1 6	gDNA Contig	2626	282 5	CGATCAACTGCTTCTACCAGTTCGCTCTC ATTCTGCACATAAAAAAAACTTGAAAAA TCAGCATCATATATTAGTTGGGACTTAA AATCTTTATGAACGATTTGATAATTCAAA CATCTAGAAGGTGTTTGCAACATCCTCTC CATGTTTAAATGAAATAGACAAAATTTT AGCCAATGAATGGAAAAACCAGTCCAA AC
784	Commelina diffusa	PPOX_B50_1 7	gDNA Contig	2801	300 0	GCGAACTGGTAGAAGCAGTTGATCGTG ACCTTAGAAAGATGCTGATAAAGCCAAC TGCTGAGGATCCTCTTCTTGTTGGTGTA AGAGTATGGCCACAAGCTATACCCCAGT TCCTGGTTGGTCATCTTGACCATCTCGAG GCAGCTAATGAAGCCCTCAGGAAAGGA GGTTTTGGTGGATTTTTTCTTGGTGGCA

						ACTAT
785	Commelina diffusa	PPOX_B50_17	gDNA Contig	2801	3000	ATAGTTGCCACCAAGAAAAAATCCACCAAAACCTCCTTTCCTGAGGGCTTCATTAGCTGCCTCGAGATGGTCAAGATGACCAACCAGGAACTGGGGTATAGCTTGTGGCCATACTCTTACACCAACAAGAAGAGGATCCTCAGCAGTTGGCTTTATCAGCATCTTTCTAAGGTCACGATCAACTGCTTCTACCAGTTCGC
786	Commelina diffusa	PPOX_B51_1	gDNA Contig	1	200	CCATGCTCTAATAGCTTGTCCGTCGTAATCTTGGGAATGAGGTTTTTGAACGATTGATTGAGCCATTCTGTTCAGGTGCGCACAATTCAATTTTCGCTATGATAAGCAAAAAGGTTTTTCACATGATAATTACCTTTGTTTTTTTCTTTTGGTGATTAACATGCTTTTGTTTGTAATGTCATATATATACTATGTTTTAC
787	Commelina diffusa	PPOX_B51_1	gDNA Contig	1	200	GTAAAACATAGTATATATATGACATTACAAACAAAAGCATGTTAATCACCAAAAGAAAAAAACAAAGGTAATTATCATGTGAAAAACCTTTTTGCTTATCATAGCGAAAATTGAATTGTGCGCACCTGAACAGAATGGCTCAATCAATCGTTCAAAAACCTCATTCCCAAGATTACGACGGACAAGCTATTAGAGCATGG
788	Commelina diffusa	PPOX_B51_2	gDNA Contig	176	375	ATGTCATATATATACTATGTTTTACCTAGATATTTGTTTTGAATTTTTTTTTCTTCTGGATTTTTAGTTTTCTGCGTTCTTTACTCCAAATTGAATCAGTTTGTCATAACTGTTATGGCAATTGTTTTGATCATGTTTTTAAAGGAGTCTCCCTGTTTTATCATCTAGCTTAGGAGTACCAAAATGAGCATTTATGTTCT
789	Commelina diffusa	PPOX_B51_2	gDNA Contig	176	375	AGAACATAAATGCTCATTTTGGTACTCCTAAGCTAGATGATAAAACAGGGAGACTCCTTTAAAAACATGATCAAAACAATTGCCATAACAGTTATGACAAACTGATTCAATTTGGAGTAAAGAACGCAGAAAACTAAAAATCCAGAAGAAAAAAAAAATTCAAAACAAATATCTAGGTAAAACATAGTATATATATGACAT
790	Commelina diffusa	PPOX_B51_3	gDNA Contig	351	550	GTACCAAAATGAGCATTTATGTTCTCTAGAAGTTATAGGATAAGAAAGACAGGTGAGACCTTCTGGACTGATTTCACCTAAAAAAATGCTAAATCTGCAGGGGTATATGCTGGAGATCCTACAAAACTTAGTATGAAGGCAGCTTTTGGTAAAGTATGGAAGTTAGAACAGACTGGTGGAAGTATTATTGGGGGCACTAT

791	Commelina diffusa	PPOX_B51_3	gDNA Contig	351	550	ATAGTGCCCCCAATAATACTTCCACCAGT CTGTTCTAACTTCCATACTTTACCAAAAG CTGCCTTCATACTAAGTTTTGTAGGATCT CCAGCATATACCCCTGCAGATTTAGCATT TTTTTAGGTGAAATCAGTCCAGAAGGTC TCACCTGTCTTTCTTATCCTATAACTTCTA GAGAACATAAATGCTCATTTTGGTAC
792	Commelina diffusa	PPOX_B51_4	gDNA Contig	526	725	GTGGAAGTATTATTGGGGGCACTATTAA GACAATCCAAGATCAAAAGAAAAATCCC AAACCTCCTAGAGATCCGTAAGAATTTC ATGAACCAAATTGGGTTTCCATACTACCT GATTGAAAGTAATGAAGTATCCTTGAGT TAATTGTTGCTATTTATCAGACGCCTACC AACACCAAAAGGACAAACAGTTGCATCT TT
793	Commelina diffusa	PPOX_B51_4	gDNA Contig	526	725	AAAGATGCAACTGTTTGTCCTTTTGGTGT TGGTAGGCGTCTGATAAATAGCAACAAT TAACTCAAGGATACTTCATTACTTTCAAT CAGGTAGTATGGAAACCCAATTTGGTTC ATGAAATTCTTACGGATCTCTAGGAGGT TTGGGATTTTTCTTTTGATCTTGGATTGT CTTAATAGTGCCCCCAATAATACTTCCAC
794	Commelina diffusa	PPOX_B51_5	gDNA Contig	701	900	CAAAAGGACAAACAGTTGCATCTTTTAG GAAAGGGCTTAACATGCTACCTGCAGCA ATTTCTTCCAGGTCTTTGTTTTTTTTCATT CTTTGTAATACCCTGTAACTATCTGCAGG CTTTTACAAACTGGTTATACTTTTTTTTTA CTTTACCAAGTTGGTTAGTTAGTAGTTAT ATTTATGTGTTCATACTGAAGATGAG
795	Commelina diffusa	PPOX_B51_5	gDNA Contig	701	900	CTCATCTTCAGTATGAACACATAAATATA ACTACTAACTAACCAACTTGGTAAAGTA AAAAAAAAGTATAACCAGTTTGTAAAAG CCTGCAGATAGTTACAGGGTATTACAAA GAATGAAAAAAAACAAAGACCTGGAAG AAATTGCTGCAGGTAGCATGTTAAGCCC TTTCCTAAAAGATGCAACTGTTTGTCCTT TTG
796	Commelina diffusa	PPOX_B51_6	gDNA Contig	876	1075	TTTATGTGTTCATACTGAAGATGAGCAA CTTCTGTTTTTTATCATAATTATATTTATA TATTTCTTTTGTTATCTATCAAGGATTATC CTTCAGATCTAACAGTTCACAAACTTCAC TAGCTTGTATCTTGGAACATATTTTCTTT ACTTTAATATTTTCATTGACTTGTATTTCG TGGAAAAACAGACTGGGTAGCAAA
797	Commelina diffusa	PPOX_B51_6	gDNA Contig	876	1075	TTTGCTACCCAGTCTGTTTTTCCACGAAA TACAAGTCAATGAAAATATTAAAGTAAA GAAAATATGTTCCAAGATACAAGCTAGT

						GAAGTTTGTGAACTGTTAGATCTGAAGG ATAATCCTTGATAGATAACAAAAGAAAT ATATAAATATAATTATGATAAAAAACAG AAGTTGCTCATCTTCAGTATGAACACAT AAA
798	Commelina diffusa	PPOX_B51_7	gDNA Contig	1051	1250	GTGGAAAAACAGACTGGGTAGCAAAGT GAAACTATCATGGAAACTTGTGAGCATC AGGAAGCTGGAGAGCCAGGAATATTTA TTGCTATATGAAACATCAGAAGGATTGA CTTCAGTACAGACTAGAAGTGTTGTTCT GACTGTTCCATCTTATATTGCCAGCAATC TCCTTCGCTCTCTTTCAGTAAGCTTATGC CCCA
799	Commelina diffusa	PPOX_B51_7	gDNA Contig	1051	1250	TGGGGCATAAGCTTACTGAAAGAGAGC GAAGGAGATTGCTGGCAATATAAGATG GAACAGTCAGAACAACACTTCTAGTCTG TACTGAAGTCAATCCTTCTGATGTTTCAT ATAGCAATAAATATTCCTGGCTCTCCAG CTTCCTGATGCTCACAAGTTTCCATGATA GTTTCACTTTGCTACCCAGTCTGTTTTTC CAC
800	Commelina diffusa	PPOX_B51_8	gDNA Contig	1226	1425	TCTCTTTCAGTAAGCTTATGCCCCACTTT AAGCTTCTACAGTCCCTTTGAATATGTTT ATGGAATTCTGTTATAAAGACCTTCTCG GTTGCTTTTTCTGTAGTTAATTTATGTGG ATGGAGAATCTTTCTAGAAATTGTTGAC ATGATACTATATATGGTATCTATATTGTG TGACATGTTATTGTTGACCAATATATGC
801	Commelina diffusa	PPOX_B51_8	gDNA Contig	1226	1425	GCATATATTGGTCAACAATAACATGTCA CACAATATAGATACCATATATAGTATCAT GTCAACAATTTCTAGAAAGATTCTCCATC CACATAAATTAACTACAGAAAAAGCAAC CGAGAAGGTCTTTATAACAGAATTCCAT AAACATATTCAAAGGGACTGTAGAAGCT TAAAGTGGGGCATAAGCTTACTGAAAG AGA
802	Commelina diffusa	PPOX_B49_1	cDNA Contig	1	200	GCTATATGAAACATCAGAAGGATTGACT TCAGTACAGACTAGAAGTGTTGTTCTGA CTGTTCCATCTTATATTGCCAGCAATCTC CTTCGCTCTCTTTCAAATGACGCAGCTGA TGCTTTGTCAAAGTTTTACTATCCTCCAG TTGCTGCTGTTTCCATTTCATATCCAAAG GAAGCTATTAGGAACGAATGTTTAATCG
803	Commelina diffusa	PPOX_B49_1	cDNA Contig	1	200	CGATTAAACATTCGTTCCTAATAGCTTCC TTTGGATATGAAATGGAAACAGCAGCA ACTGGAGGATAGTAAAACTTTGACAAA GCATCAGCTGCGTCATTTGAAAGAGAGC

						GAAGGAGATTGCTGGCAATATAAGATG GAACAGTCAGAACAACACTTCTAGTCTG TACTGAAGTCAATCCTTCTGATGTTTCAT ATAGC
804	Commelina diffusa	PPOX_B49_2	cDNA Contig	176	375	GCTATTAGGAACGAATGTTTAATCGATG GTGAGCTTAAGGGATTTGGCCAGTTGCA TCCACGTAGTCAAGGAGTAGAGACACTC GGAACAATATATAGCTCATCCCTTTTCCT GGCCGAGCTCCCCAAGGGAGAATATTG CTTCTTAACTACATTGGAGGTGCTACAA ATACTGGAATTGTATCAAAGAATGAGAG CGAA
805	Commelina diffusa	PPOX_B49_2	cDNA Contig	176	375	TTCGCTCTCATTCTTTGATACAATTCCAG TATTTGTAGCACCTCCAATGTAGTTAAG AAGCAATATTCTCCCTTGGGGAGCTCGG CCAGGAAAAGGGATGAGCTATATATTGT TCCGAGTGTCTCTACTCCTTGACTACGTG GATGCAACTGGCCAAATCCCTTAAGCTC ACCATCGATTAAACATTCGTTCCTAATAG C
806	Commelina diffusa	PPOX_B52_1	gDNA Contig	1	200	TTATGATTAAAGATATATATATCCAATTA GTTTACTTCCACATTGCATAATGTACCTT GATATATATTTCCTACTAGCATTTTTTCCT TAAAATTACGATTTTTGTATGATTATCAG ATTAACAACACTAGCGGCCTCTTTTATAT TGATCCTAGTGGAAGGAGGATATTCCTC CTAATTTGTTGTACTAAGACATCGGC
807	Commelina diffusa	PPOX_B52_1	gDNA Contig	1	200	GCCGATGTCTTAGTACAACAAATTAGGA GGAATATCCTCCTTCCACTAGGATCAAT ATAAAAGAGGCCGCTAGTGTTGTTAATC TGATAATCATACAAAAATCGTAATTTTAA GGAAAAAATGCTAGTAGGAAATATATAT CAAGGTACATTATGCAATGTGGAAGTAA ACTAATTGGATATATATATCTTTAATCAT AA
808	Commelina diffusa	PPOX_B52_2	gDNA Contig	176	375	TAATTTGTTGTACTAAGACATCGGCTAC ATTTTTTTTTTGCTTATGGAGACATCTA TATTAATATTTGTGGTTCACATGATTCTT GTTGCTTAAAGATTATTTAATGGATGGT GGTTGCAGAATGACGCAGCTGATGCTTT GTCAAAGTTTTACTATCCTCCAGTTGCTG CTGTTTCCATTTCATATCCAAAGGAAGCT
809	Commelina diffusa	PPOX_B52_2	gDNA Contig	176	375	AGCTTCCTTTGGATATGAAATGGAAACA GCAGCAACTGGAGGATAGTAAAACTTT GACAAAGCATCAGCTGCGTCATTCTGCA ACCACCATCCATTAAATAATCTTTAAGCA ACAAGAATCATGTGAACCACAAATATTA

						ATATAGATGTCTCCATAAGCAAAAAAAA AAATGTAGCCGATGTCTTAGTACAACAA ATTA
810	Commelina diffusa	PPOX_B52_3	gDNA Contig	351	550	TTCCATTTCATATCCAAAGGAAGCTATTA GGAACGAATGTTTAATCGATGGTGAGCT TAAGGGATTTGGCCAGTTGCATCCACGT AGTCAAGGAGTAGAGACACTCGGTACT GTTCTGTCTTGTTTATGGCCCCACACTAC TCACCCCAAATATAATATAGGTTCTATAT GTATATGCTCTCTGGATTTCCATTTGCAA T
811	Commelina diffusa	PPOX_B52_3	gDNA Contig	351	550	ATTGCAAATGGAAATCCAGAGAGCATAT ACATATAGAACCTATATTATATTTGGGG TGAGTAGTGTGGGGCCATAAACAAGAC AGAACAGTACCGAGTGTCTCTACTCCTT GACTACGTGGATGCAACTGGCCAAATCC CTTAAGCTCACCATCGATTAAACATTCGT TCCTAATAGCTTCCTTTGGATATGAAATG GAA
812	Conyza canadensis	PPOX_B38_1	gDNA Contig	1	200	AAAAGTATATTTAAAATTTTTTGCCCACA CCAAAAAAAATTTTAAAAAAAAGAAGTA CATATGCAATCAATGACATGCGATTTCA ATCCCAACTTTCAAATCTCAATTTTTAAA TGCTAGTAGCTATAAGTAAATAATCTCC ATTCTCCTTCTCTATACATCTTTTCTTATT CAACAGGTAATACTTTCATTTATTAATC
813	Conyza canadensis	PPOX_B38_1	gDNA Contig	1	200	GATTAATAAATGAAAGTATTACCTGTTG AATAAGAAAAGATGTATAGAGAAGGAG AATGGAGATTATTTACTTATAGCTACTA GCATTTAAAAATTGAGATTTGAAAGTTG GGATTGAAATCGCATGTCATTGATTGCA TATGTACTTCTTTTTTTTAAAATTTTTTT GGTGTGGGCAAAAAATTTTAAATATACT TTT
814	Conyza canadensis	PPOX_B38_2	gDNA Contig	176	375	CAGGTAATACTTTCATTTATTAATCATAA AATTATACATATATATTTTCCCTAATTTTT AGGTTTCTTAATTTCTTTTGACGTGAATT GAAAGATGAAAACGTGATGATAGATTG GAAGAGTTGAAGAGGGGTTTTGTTTTG GGGAATCTCATACATAACACACTAAACA ACATATTATCAGTTATCTTGTATTGATTT A
815	Conyza canadensis	PPOX_B38_2	gDNA Contig	176	375	TAAATCAATACAAGATAACTGATAATAT GTTGTTTAGTGTGTTATGTATGAGATTCC CCAAAACAAAACCCCTCTTCAACTCTTCC AATCTATCATCACGTTTTCATCTTTCAATT CACGTCAAAAGAAATTAAGAAACCTAAA

						AATTAGGGAAAATATATATGTATAATTT TATGATTAATAAATGAAAGTATTACCTG
816	Conyza canadensis	PPOX_B38_3	gDNA Contig	351	550	TTATCAGTTATCTTGTATTGATTTAATAT AAAATATGAGTACTAAAATACCATTATA TGGATCGTATAAGTTTAGTGAATAGTTC GTGCTTTTGGTTATACGACGAAATTGTA GTTGGTTTATTATATCGTCTTTTGAGTTT GCATTTTGGTTGTAATTGGATGGTTATT ATTTTGTGGGTATATGAATTTATTGGAAT T
817	Conyza canadensis	PPOX_B38_3	gDNA Contig	351	550	AATTCCAATAAATTCATATACCCACAAAA TAATAACCATCCAATTACAACCAAAATG CAAACTCAAAAGACGATATAATAAACCA ACTACAATTTCGTCGTATAACCAAAAGC ACGAACTATTCACTAAACTTATACGATCC ATATAATGGTATTTTAGTACTCATATTTT ATATTAAATCAATACAAGATAACTGATA A
818	Conyza canadensis	PPOX_B38_4	gDNA Contig	526	725	GTGGGTATATGAATTTATTGGAATTTGA TCGATATATTAAAATTTTTGTACCTATAT AATGTTTTAAATTTGTCACCTTACGATAA AGTTCCTGGCTCCGCCTTGATAGCAGCC TTCATGTAAAATTGGTTTTCATAAACGTT CTGAGTTTTTATAAATTTTGTAACATGTC ATTCTTCTGGAAATATGCTTCTCTTCAA
819	Conyza canadensis	PPOX_B38_4	gDNA Contig	526	725	TTGAAGAGAAGCATATTTCCAGAAGAAT GACATGTTACAAAATTTATAAAAACTCA GAACGTTTATGAAAACCAATTTTACATG AAGGCTGCTATCAAGGCGGAGCCAGGA ACTTTATCGTAAGGTGACAAATTTAAAA CATTATATAGGTACAAAAATTTTAATATA TCGATCAAATTCCAATAAATTCATATACC CAC
820	Conyza canadensis	PPOX_B38_5	gDNA Contig	701	900	CTTCTGGAAATATGCTTCTCTTCAATTTA ACGCGTATATGAGCGTTGCATTCGCATA TAATCGAATGTCTCGTGGAAAGTACTAA AGACTTGGCCAACGTTAGGTTTCATTAT CATCTTCTAGGGGATTGTTTAAGTCCAA CATAATTAAGAATTTACAAACAGAAGGA ACAACGTAGGAAAAGTCATAATCAATTG AAT
821	Conyza canadensis	PPOX_B38_5	gDNA Contig	701	900	ATTCAATTGATTATGACTTTTCCTACGTT GTTCCTTCTGTTTGTAAATTCTTAATTAT GTTGGACTTAAACAATCCCCTAGAAGAT GATAATGAAACCTAACGTTGGCCAAGTC TTTAGTACTTTCCACGAGACATTCGATTA TATGCGAATGCAACGCTCATATACGCGT

						TAAATTGAAGAGAAGCATATTTCCAGAAG
822	Conyza canadensis	PPOX_B38_6	gDNA Contig	876	1075	TAGGAAAAGTCATAATCAATTGAATAGTTTGATTAGTCAATTTATCAGTACTTAAACTAAGATATAGTAAGATGAGGTTGAAAAACAACTACTATAACATACAAACATATATGGATCTTCCTTAAATAATAACAATGTTAAAGATTACTGCAAAAATTACAGACCTTCATTTTCAGCAATGATGGTATGAAGTTGAAATA
823	Conyza canadensis	PPOX_B38_6	gDNA Contig	876	1075	TATTTCAACTTCATACCATCATTGCTGAAAATGAAGGTCTGTAATTTTTGCAGTAATCTTTAACATTGTTATTATTTAAGGAAGATCCATATATGTTTGTATGTTATAGTAGTTGTTTTTCAACCTCATCTTACTATATCTTAGTTTAAGTACTGATAAATTGACTAATCAAACTATTCAATTGATTATGACTTTTCCTA
824	Conyza canadensis	PPOX_B38_7	gDNA Contig	1051	1250	GCAATGATGGTATGAAGTTGAAATAATCGTTTGTTGTTTTCAATTAACATTTTTTCACAAAGGGAGAGAGATAAATATGGTGATCAGCTTTATATTTCAATATAATGTGAAAGGTCTGAAAAAAAAATTTGACCAAGTGTAAAAAATATGTTTTGGATAAATAAAAGTTAATTTAAATAATCTACTAAAATTAGCCCCTG
825	Conyza canadensis	PPOX_B38_7	gDNA Contig	1051	1250	CAGGGGCTAATTTTAGTAGATTATTTAAATTAACTTTTATTTATCCAAAACATATTTTTTACACTTGGTCAAATTTTTTTTTCAGACCTTTCACATTATATTGAAATATAAAGCTGATCACCATATTTATCTCTCTCCCTTTGTGAAAAAATGTTAATTGAAAACAACAAACGATTATTTCAACTTCATACCATCATTGC
826	Conyza canadensis	PPOX_B38_8	gDNA Contig	1226	1425	AATAATCTACTAAAATTAGCCCCTGGTTTACAAATATCATTTCACTTATAATTTATTAACCATAATTTACTAATTTGTTCAGTCAAACTTTTTTTTTTATATAGTTTCTTTATTTAACGTACTCACAACACATTACAATCTCTCATATTGGGTATTTTTACTGCTGCATTACGTGAGTTTTTTTTTATTGTATCATATAA
827	Conyza canadensis	PPOX_B38_8	gDNA Contig	1226	1425	TTATATGATACAATAAAAAAAAACTCACGTAATGCAGCAGTAAAAATACCCAATATGAGAGATTGTAATGTGTTGTGAGTACGTTAAATAAAGAAACTATATAAAAAAAAAAGTTTGACTGAACAAATTAGTAAATTATGGTTAATAAATTATAAGTGAAATGATATTTGTAAACCAGGGGCTAATTTTAGTAGATTATT

828	Conyza canadensis	PPOX_B38_9	gDNA Contig	1401	1600	AGTTTTTTTTTATTGTATCATATAATTTTT GACAAATGATTTTTAATAAAACAAACCT TTTCACTCTTTAATGGTGAGGTTTCAATT CCACAGTTTAATCAATTGCCGATCGATG TATATATGTAATTTTTAGTTTTAATTTAGT AAATACAAAATTATTTAACTAGGGTATA GGAAGAGTAGACTTGAAAATATGGGTG
829	Conyza canadensis	PPOX_B38_9	gDNA Contig	1401	1600	CACCCATATTTTCAAGTCTACTCTTCCTAT ACCCTAGTTAAATAATTTTGTATTTACTA AATTAAAACTAAAAATTACATATATACAT CGATCGGCAATTGATTAAACTGTGGAAT TGAAACCTCACCATTAAAGAGTGAAAAG GTTTGTTTTATTAAAAATCATTTGTCAAA AATTATATGATACAATAAAAAAAAACT
830	Conyza canadensis	PPOX_B38_10	gDNA Contig	1576	1775	AAGAGTAGACTTGAAAATATGGGTGAT AATTTCTTGATTCTTTCAATTTGAGTAAG TTAAAGAAATCTTAACTCTTCAAATTTTG GCCTTTAATTTATATCTAAAGGTTAATTT TTATCTAAAGGTTAACATTACTATAACTT GGACTAATTCCCTCCCTAAAAATATATAC CCATTTTCCTTATCTGACTTGGAAAATA
831	Conyza canadensis	PPOX_B38_10	gDNA Contig	1576	1775	TATTTTCCAAGTCAGATAAGGAAAATGG GTATATATTTTTAGGGAGGGAATTAGTC CAAGTTATAGTAATGTTAACCTTTAGATA AAAATTAACCTTTAGATATAAATTAAAG GCCAAAATTTGAAGAGTTAAGATTTCTT TAACTTACTCAAATTGAAAGAATCAAGA AATTATCACCCATATTTTCAAGTCTACTC TT
832	Conyza canadensis	PPOX_B38_11	gDNA Contig	1751	1950	TTTTCCTTATCTGACTTGGAAAATAGTGG GGTAGATCGGATCTGACCTAACCTGATT TGACCCGATCCGACCCGAACGTTGAAAA TGAAAATTAGTTTACTAGAGGTGGTTCA CCCACAGAGAAATTATACCAAACCGAAA CAACCCAACAATGGCTTCTCCAACAACA ACAACAGATGATAACAAAGGTAGATACT ATT
833	Conyza canadensis	PPOX_B38_11	gDNA Contig	1751	1950	AATAGTATCTACCTTTGTTATCATCTGTT GTTGTTGTTGGAGAAGCCATTGTTGGGT TGTTTCGGTTTGGTATAATTTCTCTGTGG GTGAACCACCTCTAGTAAACTAATTTTCA TTTTCAACGTTCGGGTCGGATCGGGTCA AATCAGGTTAGGTCAGATCCGATCTACC CCACTATTTTCCAAGTCAGATAAGGAAA A
834	Conyza canadensis	PPOX_B38_12	gDNA Contig	1926	2125	GATGATAACAAAGGTAGATACTATTTCT TTTTCTTCTTAATAATCTTAATATGTTATT

						ATTTTCATTGTAGATAATCCAGTTCTGCA TTTTGTTGCACAGAGAAAGCACCTGCTA AGAGAGTTGCAGTTGTTGGCGCCGGTG TCAGGTCAATGTTACTACTTTCATATATA TAATATATGTATCTTGCGTTTTATTTTAC
835	Conyza canadensis	PPOX_B38_12	gDNA Contig	1926	2125	GTAAAATAAAACGCAAGATACATATATT ATATATATGAAAGTAGTAACATTGACCT GACACCGGCGCCAACAACTGCAACTCTC TTAGCAGGTGCTTTCTCTGTGCAACAAA ATGCAGAACTGGATTATCTACAATGAAA ATAATAACATATTAAGATTATTAAGAAG AAAAAGAAATAGTATCTACCTTTGTTATC ATC
836	Conyza canadensis	PPOX_B38_13	gDNA Contig	2101	2300	ATATGTATCTTGCGTTTTATTTTACTTCTT ACTTTTTACGGCGAAATACCCAAATATCC CACCCCACGGAAGGTTATGTAGACTTTG GTTTTCTTTGACCTCTATAGTTGGTTACT TGTTATGGCCATGAAATGAAAGATTCCT AAACGAGGGTGGAGATTACTCTAGCGTT TGTTTTGACCCCAAAAATGCTTTGCTTG
837	Conyza canadensis	PPOX_B38_13	gDNA Contig	2101	2300	CAAGCAAAGCATTTTTGGGGTCAAAACA AACGCTAGAGTAATCTCCACCCTCGTTTA GGAATCTTTCATTTCATGGCCATAACAA GTAACCAACTATAGAGGTCAAAGAAAAC CAAAGTCTACATAACCTTCCGTGGGGTG GGATATTTGGGTATTTCGCCGTAAAAAG TAAGAAGTAAAATAAAACGCAAGATAC ATAT
838	Conyza canadensis	PPOX_B38_14	gDNA Contig	2276	2475	TTTGACCCCAAAAATGCTTTGCTTGTCGG AGGACATGACCAATATTTAGAGGACTAG GATTAGCTTAGCGGAATATGGTAGATAA GTAATCCTTTTAGGGGTACTTTATATAAT TGTGGATTTTCATGCATGATACCTTTCTT ATATGCTCATATGACTTCTTTGCACTGTT AGGGGTAGTGTTCTTGACAGCTAGGTG A
839	Conyza canadensis	PPOX_B38_14	gDNA Contig	2276	2475	TCACCTAGCTGTCAAGAACACTACCCCT AACAGTGCAAAGAAGTCATATGAGCAT ATAAGAAAGGTATCATGCATGAAAATCC ACAATTATATAAAGTACCCCTAAAAGGA TTACTTATCTACCATATTCCGCTAAGCTA ATCCTAGTCCTCTAAATATTGGTCATGTC CTCCGACAAGCAAAGCATTTTTGGGGTC AAA
840	Conyza canadensis	PPOX_B38_15	gDNA Contig	2451	2650	GGTAGTGTTCTTGACAGCTAGGTGACCT ATGCTACTTTGTTTCATAGGTCGATTAGG GATTAGCACCCACTATTTTTTTATTTTTTT

						GGAAGGCATTAAATTATATTATATTAAA GATAAAAATTGCCAGTAAGAAACTAGCC GATACATAGACTGTCCAATCCAAAATAG AAAACTAGCACCCACATTATATGTGGGC C
841	Conyza canadensis	PPOX_B38_15	gDNA Contig	2451	2650	GGCCCACATATAATGTGGGTGCTAGTTT TCTATTTTGGATTGGACAGTCTATGTATC GGCTAGTTTCTTACTGGCAATTTTTATCT TTAATATAATATAATTTAATGCCTTCCAA AAAAATAAAAAAATAGTGGGTGCTAATC CCTAATCGACCTATGAAACAAAGTAGCA TAGGTCACCTAGCTGTCAAGAACACTAC C
842	Conyza canadensis	PPOX_B38_16	gDNA Contig	2626	2825	CTAGCACCCACATTATATGTGGGCCCAC CGGTCCCTAGGACTTCCTAGTAAATATCT ACTTATATCTATGTATGCATGGCTGATAC CAACCCTATTTGCTTTTGTGACTTGCTGG GAGGAGGTTAAAGGGGTTCTTGACTTCT TGCACATGCCACTCGTACTACCAAACCT ATTTGCTTCTATGACTTGCTGGGAGGAG A
843	Conyza canadensis	PPOX_B38_16	gDNA Contig	2626	2825	TCTCCTCCCAGCAAGTCATAGAAGCAAA TAGGTTTGGTAGTACGAGTGGCATGTGC AAGAAGTCAAGAACCCCTTTAACCTCCT CCCAGCAAGTCACAAAAGCAAATAGGG TTGGTATCAGCCATGCATACATAGATAT AAGTAGATATTTACTAGGAAGTCCTAGG GACCGGTGGGCCCACATATAATGTGGG TGCTAG
844	Conyza canadensis	PPOX_B38_17	gDNA Contig	2801	3000	GCTTCTATGACTTGCTGGGAGGAGACAT GCCCCTATTAATTGTTGCTCTCATCCCAC ATGTTTGGTTCTATGCAGACGGTTATATT TATTATGTTTTTATGATGTTTAATATGTT CAAATGTCTTATTTACTATGTATTGTCCA ATTTGGGCTATGTGGTATGTCTTCTACCC TTGTCTACTCTTAATGTAGTAAGAGTA
845	Conyza canadensis	PPOX_B38_17	gDNA Contig	2801	3000	TACTCTTACTACATTAAGAGTAGACAAG GGTAGAAGACATACCACATAGCCCAAAT TGGACAATACATAGTAAATAAGACATTT GAACATATTAAACATCATAAAAACATAA TAAATATAACCGTCTGCATAGAACCAAA CATGTGGGATGAGAGCAACAATTAATA GGGGCATGTCTCCTCCCAGCAAGTCATA GAAGC
846	Conyza canadensis	PPOX_B38_18	gDNA Contig	2976	3175	GTCTACTCTTAATGTAGTAAGAGTATCAT CATACTCGATCGACAGGTATGGTTACTG AACTCTTTACACTCTCCTACTTTTGCCTTT

						TTTGGATGGAGGTCCTTATGGAAGTAGT CTTTCTGCCTCTGGGTAGAGGCAAGACT GTCTACATCTCACATCCCCCATACCCCTC GCACAAGAATTGGGTCATGTTGTTTTTG
847	Conyza canadensis	PPOX_B38_18	gDNA Contig	2976	3175	CAAAAACAACATGACCCAATTCTTGTGC GAGGGGTATGGGGGATGTGAGATGTAG ACAGTCTTGCCTCTACCCAGAGGCAGAA AGACTACTTCCATAAGGACCTCCATCCA AAAAAGGCAAAAGTAGGAGAGTGTAAA GAGTTCAGTAACCATACCTGTCGATCGA GTATGATGATACTCTTACTACATTAAGA GTAGAC
848	Conyza canadensis	PPOX_B38_19	gDNA Contig	3151	3350	CAAGAATTGGGTCATGTTGTTTTTGTGG ACTCGAACCCAGATGGTAAGATGTTTCC AATGGGGTTTACATATTGTTGATTTTTTG CTGCTAGTATAATATATTATTTTGATTAT TCGTTACATGTATGAAATTTGTAAATAA ATTGGTGAGTATAGTAGTCTAGTGCAAC ATGGTGATTGATTGATATCTAGAGGAAT GG
849	Conyza canadensis	PPOX_B38_19	gDNA Contig	3151	3350	CCATTCCTCTAGATATCAATCAATCACCA TGTTGCACTAGACTACTATACTCACCAAT TTATTTACAAATTTCATACATGTAACGAA TAATCAAAATAATATATTATACTAGCAG CAAAAAATCAACAATATGTAAACCCCAT TGGAAACATCTTACCATCTGGGTTCGAG TCCACAAAAACAACATGACCCAATTCTT G
850	Conyza canadensis	PPOX_B38_20	gDNA Contig	3326	3525	GATTGATTGATATCTAGAGGAATGGCTG GCCATATTATGTTGAATCATGAATGAAT GACTTGGTTTGTTTCAGTGGGCTTGCGG CTGCATATAAGTTAAAACTACATGGAAT AAATGTCACTGTTTTTGAAGCCGGTGAG ATAGCCGGAGGGAAACTAAGAAGCATT TCACAAAACGGTTTAATATGGGACGAG GGTGCC
851	Conyza canadensis	PPOX_B38_20	gDNA Contig	3326	3525	GGCACCCTCGTCCCATATTAAACCGTTTT GTGAAATGCTTCTTAGTTTCCCTCCGGCT ATCTCACCGGCTTCAAAAACAGTGACAT TTATTCCATGTAGTTTTAACTTATATGCA GCCGCAAGCCCACTGAAACAAACCAAGT CATTCATTCATGATTCAACATAATATGGC CAGCCATTCCTCTAGATATCAATCAATC
852	Conyza canadensis	PPOX_B38_21	gDNA Contig	3501	3700	CGGTTTAATATGGGACGAGGGTGCCAA TACTATGGTATGATATCGATGTTAGTTTG CTTATAGACATAACTTCTTTTTTTTTATTT TTTTTAAAAAAAAGTTGTTTTGATGCTCT

						TTTACTCCGTATTTGTAGACTGAGAGTG AACCGGATGTCAGCAGGTTGCTTGATGA TCTTGGTCTTCGAGATAAACAACAGTCT G
853	Conyza canadensis	PPOX_B38_21	gDNA Contig	3501	3700	CAGACTGTTGTTTATCTCGAAGACCAAG ATCATCAAGCAACCTGCTGACATCCGGT TCACTCTCAGTCTACAAATACGGAGTAA AAGAGCATCAAAACAACTTTTTTTTAAA AAAAATAAAAAAAAAGAAGTTATGTCTA TAAGCAAACTAACATCGATATCATACCA TAGTATTGGCACCCTCGTCCCATATTAAA CCG
854	Conyza canadensis	PPOX_B38_22	gDNA Contig	3676	3875	GGTCTTCGAGATAAACAACAGTCTGTAA GTTATATGCTGTTGGATATGGAACATCA TGCTTCCTGTAGCGTGCGTTTGAAAATTT ATTTTTGCAAATTTCTCCCATTGTATACT AAATGACATAGTATAAAGAAGAGGAAA TTGTTTATATCACTTTTATTCGTGTTCAAA TACGGAAGGCTAAATCCACTTTATGTGG C
855	Conyza canadensis	PPOX_B38_22	gDNA Contig	3676	3875	GCCACATAAAGTGGATTTAGCCTTCCGT ATTTGAACACGAATAAAAGTGATATAAA CAATTTCCTCTTCTTTATACTATGTCATTT AGTATACAATGGGAGAAATTTGCAAAA ATAAATTTTCAAACGCACGCTACAGGAA GCATGATGTTCCATATCCAACAGCATAT AACTTACAGACTGTTGTTTATCTCGAAG ACC
856	Conyza canadensis	PPOX_B38_23	gDNA Contig	3851	4050	GAAGGCTAAATCCACTTTATGTGGCTGT GGCTGTAATAATTTGTCGGCTATGGTTC TTGTTTCATTTATTTGTTGTGGTCATGTG TGTATATGTTTACCATGGCTGAATACTAC ACTATATTTCCTTTTGCAGCCACTTTCCC AACATAAGCGATATATTGTAAGAAATGG AAAACCGGTACTGGTATGATATCTCAAC A
857	Conyza canadensis	PPOX_B38_23	gDNA Contig	3851	4050	TGTTGAGATATCATACCAGTACCGGTTTT CCATTTCTTACAATATATCGCTTATGTTG GGAAAGTGGCTGCAAAAGGAAATATAG TGTAGTATTCAGCCATGGTAAACATATA CACACATGACCACAACAAATAAATGAAA CAAGAACCATAGCCGACAAATTATTACA GCCACAGCCACATAAAGTGGATTTAGCC TTC
858	Conyza canadensis	PPOX_B38_24	gDNA Contig	4026	4225	CCGGTACTGGTATGATATCTCAACACCA TGCTGAAAACTAATCCTCTGTTATATATG AACAAAAGAGTTTAAAAGTATAAGATGA

						AACTTTACTTCAAAATCATTAGTAGAAAT TGTGTTTTATTGGACTCAAATTCTCAACC TCATAAACACTTGTCATTTGTTTACAAAG TTTTGTAAACTGATTTTTTGTTTTCTGG
859	Conyza canadensis	PPOX_B38_24	gDNA Contig	4026	4225	CCAGAAAACAAAAAATCAGTTTACAAAA CTTTGTAAACAAATGACAAGTGTTTATG AGGTTGAGAATTTGAGTCCAATAAAACA CAATTTCTACTAATGATTTTGAAGTAAAG TTTCATCTTATACTTTTAAACTCTTTTGTT CATATATAACAGAGGATTAGTTTTCAGC ATGGTGTTGAGATATCATACCAGTACCG G
860	Conyza canadensis	PPOX_B38_25	gDNA Contig	4201	4400	TGTAAACTGATTTTTTGTTTTCTGGGAAT GTAAATAATTATGGCAGTTTATTGTACT GTTCTTTCGTATAGATAGTTATAAACTCA AAACACAAAAAAAAGGTTGTTTTATTAC GCGGTCGTAGCTGTCACAATTTTAGTTTT CTTTTGTACTTGCCAAGTTCATGTCTTAT ATACTGAATGTAACTTGGCCAAACTCAT
861	Conyza canadensis	PPOX_B38_25	gDNA Contig	4201	4400	ATGAGTTTGGCCAAGTTACATTCAGTAT ATAAGACATGAACTTGGCAAGTACAAAA GAAAACTAAAATTGTGACAGCTACGACC GCGTAATAAAACAACCTTTTTTTTGTGTT TTGAGTTTATAACTATCTATACGAAAGA ACAGTACAATAAACTGCCATAATTATTTA CATTCCCAGAAAACAAAAAATCAGTTTA CA
862	Conyza canadensis	PPOX_B38_26	gDNA Contig	4376	4575	CTGAATGTAACTTGGCCAAACTCATGTC TGCAGGTACCTTCTAACCCCATTGCACTG ATCCAAAGCAGTTTGCTTTCCACTCAATC AAAGGTTCGTTAGTAGCTCTTGGATGTT TAAGTCTGAAGTATTTAAACCGTATCCA ATCCTTTCATTCTCATATTATCTACCCAAT GATTCTCAATGTCAAGGCTCACAAAAAC
863	Conyza canadensis	PPOX_B38_26	gDNA Contig	4376	4575	GTTTTTGTGAGCCTTGACATTGAGAATC ATTGGGTAGATAATATGAGAATGAAAG GATTGGATACGGTTTAAATACTTCAGAC TTAAACATCCAAGAGCTACTAACGAACC TTTGATTGAGTGGAAAGCAAACTGCTTT GGATCAGTGCAATGGGGTTAGAAGGTA CCTGCAGACATGAGTTTGGCCAAGTTAC ATTCAG
864	Conyza canadensis	PPOX_B38_27	gDNA Contig	4551	4750	TCTCAATGTCAAGGCTCACAAAAACTCTT TATCCTACTATGCTTTAAATTTTTAATAA AAATGATGCATGCCCTTTTCGGTTGTATT TAAAAAATTATCCAAAATTGCAATGGTA ATATATTAGCACACGAGTTACACAAATT

						CTTTCTCATTTTGATATCAGATGATCTCA AAATTATAATTTGTACTTCATTACATTG
865	Conyza canadensis	PPOX_B38_27	gDNA Contig	4551	4750	CAATGTAATGAAGTACAAATTATAATTTT GAGATCATCTGATATCAAAATGAGAAAG AATTTGTGTAACTCGTGTGCTAATATATT ACCATTGCAATTTTGGATAATTTTTTAAA TACAACCGAAAAGGGCATGCATCATTTT TATTAAAAATTTAAAGCATAGTAGGATA AAGAGTTTTTGTGAGCCTTGACATTGAG A
866	Conyza canadensis	PPOX_B38_28	gDNA Contig	4726	4925	TTATAATTTGTACTTCATTACATTGTGTA TGTGATTATGGGGTTTGTTGCAAAAATT ACAGCTTCAAATACTTTTGGAGCCATTTT CATGGAAGAAGAAGAACTCGTCTGATA CACAAGAAAGGTAATATATAGCCTTCTT TCCTATCTATCTGTTAAACCCTATTAGGG ACTAACTTTTTTATTTATTTACTATTTTGT
867	Conyza canadensis	PPOX_B38_28	gDNA Contig	4726	4925	ACAAAATAGTAAATAAATAAAAAAGTTA GTCCCTAATAGGGTTTAACAGATAGATA GGAAAGAAGGCTATATATTACCTTTCTT GTGTATCAGACGAGTTCTTCTTCTTCCAT GAAAATGGCTCCAAAAGTATTTGAAGCT GTAATTTTTGCAACAAACCCCATAATCAC ATACACAATGTAATGAAGTACAAATTAT AA
868	Conyza canadensis	PPOX_B38_29	gDNA Contig	4901	5100	CTTTTTTATTTATTTACTATTTTGTAGTGT TGGTGCATTCTTTCAACGTCATTTTGGGA AGGAGGTATATGTATATTGTAACCTTTA TCTTCAGTTCAGTTATTCTGGTATACGTC TTTCTTTTGATATTAAGGGGTCCAAGTTT TCATTTGTGTGGTACTTCAAAATTTGTCC ATGCTTTCCGCTATCTTAATTTTCTA
869	Conyza canadensis	PPOX_B38_29	gDNA Contig	4901	5100	TAGAAAATTAAGATAGCGGAAAGCATG GACAAATTTTGAAGTACCACACAAATGA AAACTTGGACCCCTTAATATCAAAAGAA AGACGTATACCAGAATAACTGAACTGAA GATAAAGGTTACAATATACATATACCTC CTTCCCAAAATGACGTTGAAAGAATGCA CCAACACTACAAAATAGTAAATAAATAA AAAAG
870	Conyza canadensis	PPOX_B38_30	gDNA Contig	5076	5275	TGCTTTCCGCTATCTTAATTTTCTATACTT AATGTACATATGTAAGGTTGTTGAGTAT CTCATTAATCCTGTTGTTGCTGGAACAA GCGGTGGAGATCCGGAGTCACTTTCTGT GAGTAACTCTTCCATGTCCATGCTGCTTC ATATTAGTGTGGGGATATACATAACTGA TTTCAATTAACAAACAAAAACACTTTAAA

871	Conyza canadensis	PPOX_B38_30	gDNA Contig	5076	5275	TTTAAAGTGTTTTTGTTTGTTAATTGAAATCAGTTATGTATATCCCCACACTAATATGAAGCAGCATGGACATGGAAGAGTTACTCACAGAAAGTGACTCCGGATCTCCACCGCTTGTTCCAGCAACAACAGGATTAATGAGATACTCAACAACCTTACATATGTACATTAAGTATAGAAAATTAAGATAGCGGAAAGCA
872	Conyza canadensis	PPOX_B38_31	gDNA Contig	5251	5450	AATTAACAAACAAAAACACTTTAAAGCATGTGGAGGTGCAAATGCATTCTTTGACACCCCTGCTAAGTGCTACCTCTCATCATTAACCTTCTAGGTTAATCTATCAACCTCATATTTTCCATACAGATGCGCTATTCATTCCCTGAATTATGGGATTTAGAGAGAAGGTATGTAAGCTACAAAATAATATGTAATTCATT
873	Conyza canadensis	PPOX_B38_31	gDNA Contig	5251	5450	AATGAATTACATATTATTTTGTAGCTTACATACCTTCTCTCTAAATCCCATAATTCAGGGAATGAATAGCGCATCTGTATGGAAAATATGAGGTTGATAGATTAACCTAGAAGGTTAATGATGAGAGGTAGCACTTAGCAGGGGTGTCAAAGAATGCATTTGCACCTCCACATGCTTTAAAGTGTTTTTGTTTGTTAATT
874	Conyza canadensis	PPOX_B38_32	gDNA Contig	5426	5625	GCTACAAAATAATATGTAATTCATTCTTTAAGTGAGCTTGATTATTTGTTCCCATGCAATCTACTATGATTTTTTATTATAATATTTATAAAGCTTGGATTCTTAAATTCAATGTGATGACGGTCAAATCAACATGCAGGTTTGGTTCACTCATTTCTGGGGCATTTCAGTCTATGATCTCTTCTCGAGGCAGAAAAAAG
875	Conyza canadensis	PPOX_B38_32	gDNA Contig	5426	5625	CTTTTTTCTGCCTCGAGAAGAGATCATAGACTGAAATGCCCCAGAAATGAGTGAACCAAACCTGCATGTTGATTTGACCGTCATCACATTGAATTTAAGAATCCAAGCTTTATAAATATTATAATAAAAAATCATAGTAGATTGCATGGGAACAAATAATCAAGCTCACTTAAAGAATGAATTACATATTATTTTGTAGC
876	Conyza canadensis	PPOX_B38_33	gDNA Contig	5601	5800	GATCTCTTCTCGAGGCAGAAAAAAGAGTCCTTCAGGAAGCAGCAAGCGCAGGCGTGGCTCCTTTTCATTTTTAGGTGGAATGCAGGTAAGATTGGTGATTTTGTCTGTCAAGATTCATTTATTGGAATCTAATATATTCTTTAAAGTAGAAACAGGCCATCAATATATTGCTTACTTTGTTCTTTTAAATCTTTATTCTC
877	Conyza	PPOX_B38_3	gDNA	5601	580	GAGAATAAAGATTTAAAAGAACAAAGT

	canadensis	3	Contig		0	AAGCAATATATTGATGGCCTGTTTCTACT TTAAAGAATATATTAGATTCCAATAAAT GAATCTTGACAGACAAAATCACCAATCT TACCTGCATTCCACCTAAAAATGAAAAG GAGCCACGCCTGCGCTTGCTGCTTCCTG AAGGACTCTTTTTTCTGCCTCGAGAAGA GATC
878	Conyza canadensis	PPOX_B38_3 4	gDNA Contig	5776	597 5	TTTGTTCTTTTAAATCTTTATTCTCATGCA GACACTTACAAATGCACTGAGCAAAGAA GTTGGACAACATGAACTTAATCTTCAAT CCAAGGTGCTTGAAATGTCCTATAGCTG TGATGATAACACTACTGGGAGTTGGTCG ATCTATTGTGCTCCAGATCAGAACAAAC AATTAAATCAGCAACCTTTTGATGCTGT GA
879	Conyza canadensis	PPOX_B38_3 4	gDNA Contig	5776	597 5	TCACAGCATCAAAAGGTTGCTGATTTAA TTGTTTGTTCTGATCTGGAGCACAATAG ATCGACCAACTCCCAGTAGTGTTATCATC ACAGCTATAGGACATTTCAAGCACCTTG GATTGAAGATTAAGTTCATGTTGTCCAA CTTCTTTGCTCAGTGCATTTGTAAGTGTC TGCATGAGAATAAAGATTTAAAAGAACA AA
880	Conyza canadensis	PPOX_B38_3 5	gDNA Contig	5951	615 0	AATCAGCAACCTTTTGATGCTGTGATCAT GACTGTGAGTATAGTTGTGTTATCTTAC GGTGACATTGACATAAATTTGGTTAATG TTTTGCATTTTGACAAGACTAGTTTGTCT CAGCAACTTTTTTTTGTGCTATCTTGGTG GATCTGGATTCATCAAATATTCAAATCTG TGGACAAAATATGGAAATTCTTATTCTC
881	Conyza canadensis	PPOX_B38_3 5	gDNA Contig	5951	615 0	GAGAATAAGAATTTCCATATTTTGTCCAC AGATTTGAATATTTGATGAATCCAGATC CACCAAGATAGCACAAAAAAAAGTTGCT GAGACAAACTAGTCTTGTCAAAATGCAA AACATTAACCAAATTTATGTCAATGTCAC CGTAAGATAACACAACTATACTCACAGT CATGATCACAGCATCAAAAGGTTGCTGA TT
882	Conyza canadensis	PPOX_B38_3 6	gDNA Contig	6126	632 5	ACAAAATATGGAAATTCTTATTCTCTATT TCAGAAATAGGAGAATTATTGTTTATAC ACCCATTTGTTTTAATGCTTATTAGTTTG TAAGTGCAATTAGAACGTAATTAACACA GTACATGCTCCCGAATTAGGCCCCACTT GGCAATGTGAAAGAAATGAAGATTACA AAGACAGGAAGTCCGTTCCTGCTCAATT TTA
883	Conyza	PPOX_B38_3	gDNA	6126	632	TAAAATTGAGCAGGAACGGACTTCCTGT

	canadensis	6	Contig		5	CTTTGTAATCTTCATTTCTTTCACATTGCC AAGTGGGGCCTAATTCGGGAGCATGTA CTGTGTTAATTACGTTCTAATTGCACTTA CAAACTAATAAGCATTAAAACAAATGGG TGTATAAACAATAATTCTCCTATTTCTGA AATAGAGAATAAGAATTTCCATATTTTG T
884	Conyza canadensis	PPOX_B38_37	gDNA Contig	6301	6500	GGAAGTCCGTTCCTGCTCAATTTTATACC TGAGGTATGTTATTGTACCGTGTGAGTT CTATCATATGGAATTCGTGCAGAACCCC TTAGTTTTAGCTCTTTTGAAATTTAAACA ATAATCTTTACCATGGGGAGATATCCTTT AAAGGAATATTTTCTGGTTTTTATAATGC AGCTTAGTTATATGCCAGTTTCAGTCAT
885	Conyza canadensis	PPOX_B38_37	gDNA Contig	6301	6500	ATGACTGAAACTGGCATATAACTAAGCT GCATTATAAAAACCAGAAAATATTCCTTT AAAGGATATCTCCCCATGGTAAAGATTA TTGTTTAAATTTCAAAAGAGCTAAAACT AAGGGGTTCTGCACGAATTCCATATGAT AGAACTCACACGGTACAATAACATACCT CAGGTATAAAATTGAGCAGGAACGGAC TTCC
886	Conyza canadensis	PPOX_B38_38	gDNA Contig	6476	6675	TTAGTTATATGCCAGTTTCAGTCATAATC TCTACATTCAAGAAAGAGAATGTGAAGC GGCCCCTTGAGGGATTTGGAATGCTTGT TCCTGCCAAGGAGCAGGAAAATGGTTT GAAGACGTTAGGTAAAGCTTGCCTGTGT ATTATCTTTTTTTTTTTTTCCTTTTCATTT TTTTTTCTTTTTTTTTCTTTATTGTCTA
887	Conyza canadensis	PPOX_B38_38	gDNA Contig	6476	6675	TAGACAATAAAGAAAAAAAAAAGAAAA AAAAATGAAAAGGAAAAAAAAAAAAAA GATAATACACAGGCAAGCTTTACCTAAC GTCTTCAAACCATTTTCCTGCTCCTTGGC AGGAACAAGCATTCCAAATCCCTCAAGG GGCCGCTTCACATTCTCTTTCTTGAATGT AGAGATTATGACTGAAACTGGCATATAA CTAA
888	Conyza canadensis	PPOX_B38_39	gDNA Contig	6651	6850	TTCTTTTTTTTTCTTTATTGTCTATAATTA TTATTGAAAATTCTGTTATGCAGGCACTC TCTTTTCTTCCATGATGTTTCCAGATCGT GCCCCTGAAGACTTGTATCTTTATACCAC CTTTGTTGGGGGAAGTCGAAACAAAGA ACTGGCCAATGCTTCGAGGTAGGCTTGA TCATTGCAATAATTTCTGCTCAATATT
889	Conyza canadensis	PPOX_B38_39	gDNA Contig	6651	6850	AATATTGAGCAGAAATTATTGCAATGAT CAAGCCTACCTCGAAGCATTGGCCAGTT CTTTGTTTCGACTTCCCCCAACAAAGGTG

						GTATAAAGATACAAGTCTTCAGGGGCAC GATCTGGAAACATCATGGAAGAAAAGA GAGTGCCTGCATAACAGAATTTTCAATA ATAATTATAGACAATAAAGAAAAAAAAA AGAA
890	Conyza canadensis	PPOX_B38_40	gDNA Contig	6826	7025	ATTGCAATAATTTCTGCTCAATATTTTAG CTTCAAATTTACTCAAGTATTGAGGAAG TAGTTGTATAATGGCTGTCTCTAAAAACT TCATAAGAGAATCTTCTTGACCATTCCCT ATAGGAATATCAATCTATTATTTATGATG ATTATGATGAGTAAGTAATAATTTAGTTT GGAAACTTTTTTGGAGGAAAGGAGAAA
891	Conyza canadensis	PPOX_B38_40	gDNA Contig	6826	7025	TTTCTCCTTTCCTCCAAAAAAGTTTCCAA ACTAAATTATTACTTACTCATCATAATCA TCATAAATAATAGATTGATATTCCTATAG GGAATGGTCAAGAAGATTCTCTTATGAA GTTTTTAGAGACAGCCATTATACAACTA CTTCCTCAATACTTGAGTAAATTTGAAGC TAAAATATTGAGCAGAAATTATTGCAAT
892	Conyza canadensis	PPOX_B38_41	gDNA Contig	7001	7200	AAACTTTTTTGGAGGAAAGGAGAAATGT TGGAGCTTTCTTGTTGCTGTTTAAGGGG AGAGGACATAACTCAAGTATAATTCTTG CAATAATATATATTTTCTGTAAATACAGG GATGAGTTGAAGCAGATAGTAACTTCTG ACCTCAGACAGTTGCTTGGAGCAGAGG GAGAGCCACAATTTTTGACGTAAGGACA CATT
893	Conyza canadensis	PPOX_B38_41	gDNA Contig	7001	7200	AATGTGTCCTTACGTCAAAAATTGTGGC TCTCCCTCTGCTCCAAGCAACTGTCTGAG GTCAGAAGTTACTATCTGCTTCAACTCAT CCCTGTATTTACAGAAAATATATATTATT GCAAGAATTATACTTGAGTTATGTCCTCT CCCCTTAAACAGCAACAAGAAAGCTCCA ACATTTCTCCTTTCCTCCAAAAAAGTTT
894	Conyza canadensis	PPOX_B38_42	gDNA Contig	7176	7375	ACAATTTTTGACGTAAGGACACATTCTA GCTCTGCTGCTTTTATTAAACGTTAGTTT ATCTAGATCAAAGGATTGCAAGAATTGC ATTCCTGAGCACTATACAAACAATTACA CAACTTAATTTTCAGCTTAGACTTTTTCA TTGGCGCATGTTCACCAATTGAAATTGTT TCTTGAAATTTAACTTTTTTTTAAAAGCC
895	Conyza canadensis	PPOX_B38_42	gDNA Contig	7176	7375	GGCTTTTAAAAAAAAGTTAAATTTCAAG AAACAATTTCAATTGGTGAACATGCGCC AATGAAAAAGTCTAAGCTGAAAATTAAG TTGTGTAATTGTTTGTATAGTGCTCAGG AATGCAATTCTTGCAATCCTTTGATCTAG ATAAACTAACGTTTAATAAAAGCAGCAG

						AGCTAGAATGTGTCCTTACGTCAAAAAT TGT
896	Conyza canadensis	PPOX_B38_43	gDNA Contig	7351	7550	GAAATTTAACTTTTTTTTAAAAGCCCGAG GTTCACAGATACTTTTACAATGTACAAGT AGCTTATGCTTAATTTGTCTTGTGTTTTTT TGTTCATGTCATACATGATAATGATGTA GTTTAATTGCAGTCACTATTACTGGAGC AAAGCATATCCATTGTACGGGCGTGACT ATGGCTTAGTTATGGAAGCAATTGAGAA
897	Conyza canadensis	PPOX_B38_43	gDNA Contig	7351	7550	TTCTCAATTGCTTCCATAACTAAGCCATA GTCACGCCCGTACAATGGATATGCTTTG CTCCAGTAATAGTGACTGCAATTAAACT ACATCATTATCATGTATGACATGAACAA AAAAACACAAGACAAATTAAGCATAAGC TACTTGTACATTGTAAAAGTATCTGTGA ACCTCGGGCTTTTAAAAAAAAGTTAAAT TTC
898	Conyza canadensis	PPOX_B38_44	gDNA Contig	7526	7725	GCTTAGTTATGGAAGCAATTGAGAAGAT GGAAAGAGAGCTACCTGGTTACTTTTAT GCGGGTAAACCTTTTTGTGTTTGAAATA AAGTAGATATATACATATCTATACTCCCT TATAAAGAGTATTAGATTTCTTAAAATTA AGCATTTTTTTTCTTCCTAAAATACCCCTA CTTATACATAAAACCTTTATATATCATC
899	Conyza canadensis	PPOX_B38_44	gDNA Contig	7526	7725	GATGATATATAAAGGTTTTATGTATAAG TAGGGGTATTTTAGGAAGAAAAAAAAT GCTTAATTTTAAGAAATCTAATACTCTTT ATAAGGGAGTATAGATATGTATATATCT ACTTTATTTCAAACACAAAAAGGTTTACC CGCATAAAAGTAACCAGGTAGCTCTCTT TCCATCTTCTCAATTGCTTCCATAACTAA GC
900	Conyza canadensis	PPOX_B38_45	gDNA Contig	7701	7900	ATACATAAAACCTTTATATATCATCCTTT CCCACATTGTCTCTAATCATTACACGCTC TCATCGACCTTTTATCACCCTTCGCCACC GCCCTCCTCCACCGCCTCTCTCGATCTCC ACCACCGTCTTCCATCACCTTTTAGCCGC TACAACGCGCGGGCATTATGCTCGTTTT AAAAAAGCAAGTTAAAAAGGATAGTAG
901	Conyza canadensis	PPOX_B38_45	gDNA Contig	7701	7900	CTACTATCCTTTTTAACTTGCTTTTTTAAA ACGAGCATAATGCCCGCGCGTTGTAGCG GCTAAAAGGTGATGGAAGACGGTGGTG GAGATCGAGAGAGGCGGTGGAGGAGG GCGGTGGCGAAGGGTGATAAAAGGTCG ATGAGAGCGTGTAATGATTAGAGACAA TGTGGGAAAGGATGATATATAAAGGTTT TATGTAT

902	Conyza canadensis	PPOX_B38_46	gDNA Contig	7876	8075	AAAAGCAAGTTAAAAAGGATAGTAGGTTGATAAGAATGACTAAATGAGGACAAATCTATTAGGTAACCACAAAGGAGGACTTGCAGTTGGAAAAGCAATATCCTCTGGATGCGAAGCAGCCGAATCTGTGATTTCATATTTGGATTCATATTCCGATGAGAAGCGTTGCTAGATGTTGTGGTAATACTATTTATGATACA
903	Conyza canadensis	PPOX_B38_46	gDNA Contig	7876	8075	TGTATCATAAATAGTATTACCACAACATCTAGCAACGCTTCTCATCGGAATATGAATCCAAATATGAAATCACAGATTCGGCTGCTTCGCATCCAGAGGATATTGCTTTTCCAACTGCAAGTCCTCCTTTGTGGTTACCTAATAGATTTGTCCTCATTTAGTCATTCTTATCAACCTACTATCCTTTTTAACTTGCTTTT
904	Conyza canadensis	PPOX_B38_47	gDNA Contig	8051	8250	TTGTGGTAATACTATTTATGATACAAAAATGAATGAAATTCTGAGCCTGAACCATATAATCCTGCATTTTCTTAATTATTATTCAAAGTGCAAGACTTTTCAGGTACGTGTACATCTCAAGAAGTTTTCTTTCCATCGGGATTGGATAAATATGGCGAAAAAATAGTGTGGCTTTTTCCGGTGTCTTTGAATGTAGTCGA
905	Conyza canadensis	PPOX_B38_47	gDNA Contig	8051	8250	TCGACTACATTCAAAGACACCGGAAAAAGCCACACTATTTTTTCGCCATATTTATCCAATCCCGATGGAAAGAAAACTTCTTGAGATGTACACGTACCTGAAAAGTCTTGCACTTTGAATAATAATTAAGAAAATGCAGGATTATATGGTTCAGGCTCAGAATTTCATTCATTTTTGTATCATAAATAGTATTACCACAA
906	Conyza canadensis	PPOX_B38_48	gDNA Contig	8226	8425	TTCCGGTGTCTTTGAATGTAGTCGAAGGACTAAGCTTTAGTTACTTTTATAATGCAATAATAATGGATCAAAGTGTTGTAGAAATTGATCGTTCCGGATGATGTTAAACATTGCAAAATGTTGTAACAAAACATGGGGCTCGGGTTTTGCTTAATTTGCATCTGTAACAAAGGCTCGCCATTTTTGGGTATACTTTTAAC
907	Conyza canadensis	PPOX_B38_48	gDNA Contig	8226	8425	GTTAAAAGTATACCCAAAAATGGCGAGCCTTTGTTACAGATGCAAATTAAGCAAAACCCGAGCCCCATGTTTTGTTACAACATTTTGCAATGTTTAACATCATCCGGAACGATCAATTTCTACAACACTTTGATCCATTATTATTGCATTATAAAAGTAACTAAAGCTTAGTCCTTCGACTACATTCAAAGACACCGGAA

908	Conyza canadensis	PPOX_B38_49	gDNA Contig	8401	8600	CGCCATTTTTGGGTATACTTTTAACTATC TGTCTCAACCAAATAGTTTAAATAAACG TGCTTGAATTAGTTGTACTTTTATTATAA ATAGTTAGGGGATGAACTTTTGATATAG AATATACAAATTTTCTATTCAAGTTAATT ATAGCCGTTAGAAAAATCCCTAAATAAA AGCCAATCAGGTTTTAGGTTTTTTTTTT
909	Conyza canadensis	PPOX_B38_49	gDNA Contig	8401	8600	AAAAAAAAAAACCTAAAACCTGATTGGC TTTTATTTAGGGATTTTTCTAACGGCTAT AATTAACTTGAATAGAAAATTTGTATATT CTATATCAAAAGTTCATCCCCTAACTATT TATAATAAAAGTACAACTAATTCAAGCA CGTTTATTTAAACTATTTGGTTGAGACAG ATAGTTAAAAGTATACCCAAAAATGGCG
910	Conyza canadensis	PPOX_B38_50	gDNA Contig	8576	8775	AATCAGGTTTTAGGTTTTTTTTTTTTCTTG AAAAGTTTTCCATTATTTTAAGGGTTATT CCTTGATGGTGAGCCATTTTTGCTCGTTA TAGCGGTCTAAATAGATTTTACCTGTGA CCGGTGTTATCCATTCACATGGTCACCTC CAAAATATGCTTAAGGACATATTCGAAC TTGAAATCTTTTGTGAGGAAACATATA
911	Conyza canadensis	PPOX_B38_50	gDNA Contig	8576	8775	TATATGTTTCCTCACAAAAGATTTCAAGT TCGAATATGTCCTTAAGCATATTTTGGA GGTGACCATGTGAATGGATAACACCGG TCACAGGTAAAATCTATTTAGACCGCTA TAACGAGCAAAAATGGCTCACCATCAAG GAATAACCCTTAAAATAATGGAAAACTT TTCAAGAAAAAAAAAAAACCTAAAACCT GATT
912	Conyza canadensis	PPOX_B38_51	gDNA Contig	8751	8950	GAAATCTTTTGTGAGGAAACATATAATT CTTTCGGGTTTTGCTAAACAAAGCTCAAT GGGTGTGCATTAAATAGTTGTACACTTA CCATAAAAATCAGGGGTGAGCTTTTGAT ATGAAAAAGTACAACTTTTTTATGTACTA TAAGTGAAACCCTAAGGGCTTTATTTAA CATTTTCCAATTCTTTATCACTAGATAAA C
913	Conyza canadensis	PPOX_B38_51	gDNA Contig	8751	8950	GTTTATCTAGTGATAAAGAATTGGAAAA TGTTAAATAAAGCCCTTAGGGTTTCACTT ATAGTACATAAAAAAGTTGTACTTTTTCA TATCAAAAGCTCACCCCTGATTTTTATGG TAAGTGTACAACTATTTAATGCACACCC ATTGAGCTTTGTTTAGCAAAACCCGAAA GAATTATATGTTTCCTCACAAAAGATTTC
914	Conyza canadensis	PPOX_B38_52	gDNA Contig	8926	9125	TCCAATTCTTTATCACTAGATAAACTTGA TGATGGTTAGCTTCTTTTTTTTCCTAAA CATAGGTGTCTTACTCACTTAGACTAGA

						CCCAAAAGTTGACTCGCTTTGCGAGCCC AAGTCAGAGTAGGTAAGTCTCTCTTTGG GTCACTAGAGTATTTTTCTTAAGGAGTTT CATCCTTTTAGAGACATCCCCAATCAATG
915	Conyza canadensis	PPOX_B38_52	gDNA Contig	8926	9125	CATTGATTGGGGATGTCTCTAAAAGGAT GAAACTCCTTAAGAAAAATACTCTAGTG ACCCAAAGAGAGACTTACCTACTCTGAC TTGGGCTCGCAAAGCGAGTCAACTTTTG GGTCTAGTCTAAGTGAGTAAGACACCTA TGTTTAGGAAAAAAAAAGAAGCTAACCA TCATCAAGTTTATCTAGTGATAAAGAATT GGA
916	Conyza canadensis	PPOX_B38_53	gDNA Contig	9101	9300	CTTTTAGAGACATCCCCAATCAATGGAC CTCCACCCTAGTGTTTTGGTTGGTTAATA ATTTAGTATTATTATCCCTGTTATATATTC TTACAAGAGGTTTTAGATTAAAACATTTT AGGTAATATTTTAGGAGTGGTTAGAAAA GGGTTGATCGGAGAGGATGTAAAATAT TGTTACGCAAGGGGTCAGAGTGGAAAG AT
917	Conyza canadensis	PPOX_B38_53	gDNA Contig	9101	9300	ATCTTTCCACTCTGACCCCTTGCGTAACA ATATTTTACATCCTCTCCGATCAACCCTTT TCTAACCACTCCTAAAATATTACCTAAAA TGTTTTAATCTAAAACCTCTTGTAAGAAT ATATAACAGGGATAATAATACTAAATTA TTAACCAACCAAAACACTAGGGTGGAG GTCCATTGATTGGGGATGTCTCTAAAAG
918	Conyza canadensis	PPOX_B38_54	gDNA Contig	9276	9475	ACGCAAGGGGTCAGAGTGGAAAGATAA AGGCCGGTATAGTCTTTCATAGGAGTTT GTGTCCTCGAAATTCACCCAAGAACTTT GTCTTTGTGCTGTCGTACCTTTTTCTTTTT CTTTCCCTTTTGTCTGTTACTACTCCGTAT TAACTGACGTTTTAATATTGTTTAGCTTA ACTAAATAGATTATTGGAGGATTAGTAT
919	Conyza canadensis	PPOX_B38_54	gDNA Contig	9276	9475	ATACTAATCCTCCAATAATCTATTTAGTT AAGCTAAACAATATTAAAACGTCAGTTA ATACGGAGTAGTAACAGACAAAAGGGA AAGAAAAAGAAAAAGGTACGACAGCAC AAAGACAAAGTTCTTGGGTGAATTTCGA GGACACAAACTCCTATGAAAGACTATAC CGGCCTTTATCTTTCCACTCTGACCCCTT GCGT
920	Conyza canadensis	PPOX_B38_55	gDNA Contig	9451	9650	AAATAGATTATTGGAGGATTAGTATTTG TTGTTTAGTCATTAATTGAAGGTGAATC AAGATCCGAATAAATGAATCTAAAACCT ATTTGCTTAGTCATAAATCTTCAAGAAAA GATGAATTGTTTTGCTTAATTTTAATCCT

						TAAAGCAAACATGAATTGAACTCTTAAT AAAAAAGAGCTAGGTATTTATGACGGTT AT
921	Conyza canadensis	PPOX_B38_55	gDNA Contig	9451	9650	ATAACCGTCATAAATACCTAGCTCTTTTT TATTAAGAGTTCAATTCATGTTTGCTTTA AGGATTAAAATTAAGCAAAACAATTCAT CTTTTCTTGAAGATTTATGACTAAGCAAA TAGGTTTTAGATTCATTTATTCGGATCTT GATTCACCTTCAATTAATGACTAAACAAC AAATACTAATCCTCCAATAATCTATTT
922	Conyza canadensis	PPOX_B38_56	gDNA Contig	9626	9825	AGAGCTAGGTATTTATGACGGTTATTGG CTGCTTTAATTAAGCTCTTTGTCTGCATA TCCCGAGTCTATCCAAATCATCACCCCAT TATGCTGTCGGTGCTTTTAGGACAAAAT CATTAGTGTTAAGTTCAGTCTTTTAAAAC CGTTATAAAGCTACAAATATTAGATTCAT CTTCTCTACAGAGAGGTGTATCTTACAT
923	Conyza canadensis	PPOX_B38_56	gDNA Contig	9626	9825	ATGTAAGATACACCTCTCTGTAGAGAAG ATGAATCTAATATTTGTAGCTTTATAACG GTTTTAAAAGACTGAACTTAACACTAAT GATTTTGTCCTAAAAGCACCGACAGCAT AATGGGGTGATGATTTGGATAGACTCG GGATATGCAGACAAAGAGCTTAATTAAA GCAGCCAATAACCGTCATAAATACCTAG CTCT
924	Conyza canadensis	PPOX_B38_57	gDNA Contig	9801	10000	CTCTACAGAGAGGTGTATCTTACATTCTT ACACTTAAAACGGATAAACAGATGAATT TTTTCTTATTTTGGTAATTTTTTCGAACTT TTTCACTAGTCGCTTCTAAGATTGTATAT AATGAGATTCGAACTTGAGACACCCAAT TAAGGATTTGTGCCTCGTAAATACATGA GCTGAAGTTAAAGCCAAATCACTCTTTT
925	Conyza canadensis	PPOX_B38_57	gDNA Contig	9801	10000	AAAAGAGTGATTTGGCTTTAACTTCAGC TCATGTATTTACGAGGCACAAATCCTTA ATTGGGTGTCTCAAGTTCGAATCTCATTA TATACAATCTTAGAAGCGACTAGTGAAA AAGTTCGAAAAAATTACCAAAATAAGAA AAAATTCATCTGTTTATCCGTTTTAAGTG TAAGAATGTAAGATACACCTCTCTGTAG AG
926	Conyza canadensis	PPOX_B38_58	gDNA Contig	9976	10175	GAAGTTAAAGCCAAATCACTCTTTTCACT TCTAATACCTAGTAGCATATTCATCATTC ATTATAAAATTTTACACGTTATAGTTGTT CAATTATTTATAGTCGTCATTAACATCTG TTTGAGAAGTTCATCAATTTCCAGTACAC TGGTAATCACTTAAAAATAATTGGAGTC GTCTGTAGTCCCCCCTCATATGTGAGT

927	Conyza canadensis	PPOX_B38_58	gDNA Contig	9976	10175	ACTCACATATGAGGGGGGACTACAGAC GACTCCAATTATTTTTAAGTGATTACCAG TGTACTGGAAATTGATGAACTTCTCAAA CAGATGTTAATGACGACTATAAATAATT GAACAACTATAACGTGTAAAATTTTATA ATGAATGATGAATATGCTACTAGGTATT AGAAGTGAAAAGAGTGATTTGGCTTTAA CTTC
928	Conyza canadensis	PPOX_B38_59	gDNA Contig	10151	10350	CTGTAGTCCCCCCTCATATGTGAGTACTT TTTAAATTCAAGAGGACCCATAGATCTTT AACTACATTTATTGATTTATACATTATTTC ATATAGCATTTTCTGCAGATACGATTTGT TATGTAGCAACATAGACCCATGTTCAGT CCAAACATACTAGTACAATTTTGGAGCA ATGCAATAATGAGTATCTAAAGTTTCA
929	Conyza canadensis	PPOX_B38_59	gDNA Contig	10151	10350	TGAAACTTTAGATACTCATTATTGCATTG CTCCAAAATTGTACTAGTATGTTTGGACT GAACATGGGTCTATGTTGCTACATAACA AATCGTATCTGCAGAAAATGCTATATGA AATAATGTATAAATCAATAAATGTAGTT AAAGATCTATGGGTCCTCTTGAATTTAA AAAGTACTCACATATGAGGGGGGACTA CAG
930	Conyza canadensis	PPOX_B38_60	gDNA Contig	10326	10525	GCAATAATGAGTATCTAAAGTTTCATGT GAGAATAATCAATTACTTAGACACTAGA CGTTTTTTAACAATCAGTTTGTTCCTGGT ACATTGGCACCAACTCGTCTGAGCCTTC AGCGCGTTGGCCAGCAAGTAGTTTCGGT TTGGTGGTCACTGTCGAGCAATTGGGCA CGTTAAGTATTTTTTTTACATTTTTTATTT C
931	Conyza canadensis	PPOX_B38_60	gDNA Contig	10326	10525	GAAATAAAAAATGTAAAAAAAATACTTA ACGTGCCCAATTGCTCGACAGTGACCAC CAAACCGAAACTACTTGCTGGCCAACGC GCTGAAGGCTCAGACGAGTTGGTGCCA ATGTACCAGGAACAAACTGATTGTTAAA AAACGTCTAGTGTCTAAGTAATTGATTA TTCTCACATGAAACTTTAGATACTCATTA TTGC
932	Conyza canadensis	PPOX_B39_1	gDNA Contig	1	200	ATTTTTTTATTTAAAAGTATATTTAAAATT TTTTGCCCACACCAAAAAAAAATTTAAA AAAAAAGAAGTACATATGCAATCAATGA CATGCGATTTCAATCCCAACTTTCAAATC TCAATTTTTAAATGCTAGTAGCTATAAGT AAATAATCTCCATTCTCCTTCTCTATACAT CTTTTCTTATTCAACAGGTAATACTT
933	Conyza	PPOX_B39_1	gDNA	1	200	AAGTATTACCTGTTGAATAAGAAAAGAT

	canadensis		Contig			GTATAGAGAAGGAGAATGGAGATTATT TACTTATAGCTACTAGCATTTAAAAATTG AGATTTGAAAGTTGGGATTGAAATCGCA TGTCATTGATTGCATATGTACTTCTTTTTT TTTAAATTTTTTTTTGGTGTGGGCAAAAA ATTTTAAATATACTTTTAAATAAAAAAAT
934	Conyza canadensis	PPOX_B39_2	gDNA Contig	176	375	TTTTCTTATTCAACAGGTAATACTTTCATT TATTAATCATAAAATTATACATATATATT TTCCCTAATTTTTAGGTTTCTTAATTTCTT TTGACGTGAATTGAAAGATGAAAACGT GATGATAGATTGGAAGAGCCGAAGAGG GGTTTTGTTTTGGGGAATCTCACACATA ACACACTAAACAACATATTATCAGTTATC
935	Conyza canadensis	PPOX_B39_2	gDNA Contig	176	375	GATAACTGATAATATGTTGTTTAGTGTG TTATGTGTGAGATTCCCCAAAACAAAAC CCCTCTTCGGCTCTTCCAATCTATCATCA CGTTTTCATCTTTCAATTCACGTCAAAAG AAATTAAGAAACCTAAAAATTAGGGAAA ATATATATGTATAATTTTATGATTAATAA ATGAAAGTATTACCTGTTGAATAAGAAA A
936	Conyza canadensis	PPOX_B39_3	gDNA Contig	351	550	ACTAAACAACATATTATCAGTTATCTTGT ATTGATTTAATATAAAATATGAGTACTA AAATACCATTATATGGATCGTATAAGTTT AGTGAATAGTTCGTGCTTTTGGTTATAC GACGAAATTGTAGTTGATTTATTATATC GTCTTTTGAGTTTGCATTTTGGTTGTAAT TGGATGGTTATTATTTTGTGGGTATATG A
937	Conyza canadensis	PPOX_B39_3	gDNA Contig	351	550	TCATATACCCACAAAATAATAACCATCCA ATTACAACCAAAATGCAAACTCAAAAGA CGATATAATAAATCAACTACAATTTCGTC GTATAACCAAAAGCACGAACTATTCACT AAACTTATACGATCCATATAATGGTATTT TAGTACTCATATTTTATATTAAATCAATA CAAGATAACTGATAATATGTTGTTTAGT
938	Conyza canadensis	PPOX_B39_4	gDNA Contig	526	725	TGGTTATTATTTTGTGGGTATATGAATTT ATTGGAATTTGATCGATATATTAAAATTT TTGTACCTATATAATGTTTTAAATTTGTC ACCTTACGATAAAGTTCCTGGCTCTGCCT TGATAGCAGCCTTCATGTAAAATTGGTT TTCATAAACGTTCTGAGTTTTTATAAATT TTGTAACATGTCATTCTTCTGGAAATA
939	Conyza canadensis	PPOX_B39_4	gDNA Contig	526	725	TATTTCCAGAAGAATGACATGTTACAAA ATTTATAAAAACTCAGAACGTTTATGAA AACCAATTTTACATGAAGGCTGCTATCA AGGCAGAGCCAGGAACTTTATCGTAAG

						GTGACAAATTTAAAACATTATATAGGTA CAAAAATTTTAATATATCGATCAAATTCC AATAAATTCATATACCCACAAAATAATA ACCA
940	Conyza canadensis	PPOX_B39_5	gDNA Contig	701	900	GTAACATGTCATTCTTCTGGAAATATGCT TCTCTTCAATTTAACGCGTATATGAGCGT TGCATTCGCATATAATCGAATGTCTCGT GGAAAGTACTAAAGACTTGGCCAACGTT AGGTTTCATTATCATCTTCTGGGGGATT GTTTAAGTCCAACATAATTAAGAATTTTC AAACAGAAGGAACAACATAGGAAAAGT CA
941	Conyza canadensis	PPOX_B39_5	gDNA Contig	701	900	TGACTTTTCCTATGTTGTTCCTTCTGTTTG AAAATTCTTAATTATGTTGGACTTAAACA ATCCCCCAGAAGATGATAATGAAACCTA ACGTTGGCCAAGTCTTTAGTACTTTCCAC GAGACATTCGATTATATGCGAATGCAAC GCTCATATACGCGTTAAATTGAAGAGAA GCATATTTCCAGAAGAATGACATGTTAC
942	Conyza canadensis	PPOX_B39_6	gDNA Contig	876	1075	AGAAGGAACAACATAGGAAAAGTCATA ATCAACTGAATAGTTTGATTAGTCAATTT ATCAGTACTTAAACTAAGATATAGTAAG ATGAGGTTGAAAAACAACTACTATAACA TACAAACATATATGGATCTTCCTTAAATA ATAACAATGTTAAAGATTACTGCAAAAA TTACAGACCTTCATTTTCAGCAATGATGG TA
943	Conyza canadensis	PPOX_B39_6	gDNA Contig	876	1075	TACCATCATTGCTGAAAATGAAGGTCTG TAATTTTTGCAGTAATCTTTAACATTGTT ATTATTTAAGGAAGATCCATATATGTTTG TATGTTATAGTAGTTGTTTTTCAACCTCA TCTTACTATATCTTAGTTTAAGTACTGAT AAATTGACTAATCAAACTATTCAGTTGAT TATGACTTTTCCTATGTTGTTCCTTCT
944	Conyza canadensis	PPOX_B39_7	gDNA Contig	1051	1250	ACCTTCATTTTCAGCAATGATGGTATGA AGTTGAAATAATCGTTTGTTGTTTTCAAT TAACATTTTTTCACAAAGGGAGAGAGAT AACTATGGTGATCAGCTTTATATTTCAAT ATAATGTGAAAGGTCTGAGAAAAAAATT TGACCAAGTGTAAAAAATGTGTTTTGGA TAAATAAAAGTTAATTTAAATAATCTACT A
945	Conyza canadensis	PPOX_B39_7	gDNA Contig	1051	1250	TAGTAGATTATTTAAATTAACTTTTATTT ATCCAAAACACATTTTTTACACTTGGTCA AATTTTTTTCTCAGACCTTTCACATTATAT TGAAATATAAAGCTGATCACCATAGTTA TCTCTCTCCCTTTGTGAAAAAATGTTAAT

						TGAAAACAACAAACGATTATTTCAACTT CATACCATCATTGCTGAAAATGAAGGT
946	Conyza canadensis	PPOX_B39_8	gDNA Contig	1226	1425	AAAAGTTAATTTAAATAATCTACTAAAAT TAGCCCCTGGTTTACAAATATCATTTCAC TTATAATTTATTAACCATAATTTACTAATT TGTTCAGTCAAACTTTTTTTTTTATATAG TTTCTTTATTTAACGTACTCACAACACAT TACAATCTCTCATGTTGGGTATTTTTACT GCTGCATTACGTGAGTTTTTTTTT
947	Conyza canadensis	PPOX_B39_8	gDNA Contig	1226	1425	AAAAAAAAACTCACGTAATGCAGCAGTA AAAATACCCAACATGAGAGATTGTAATG TGTTGTGAGTACGTTAAATAAAGAAACT ATATAAAAAAAAAAAGTTTGACTGAACA AATTAGTAAATTATGGTTAATAAATTATA AGTGAAATGATATTTGTAAACCAGGGGC TAATTTTAGTAGATTATTTAAATTAACTT TT
948	Conyza canadensis	PPOX_B39_9	gDNA Contig	1401	1600	TGCTGCATTACGTGAGTTTTTTTTTATTG TATCATATAATTTTTGACAGATGATTTTT AATAAAACAAACCTTTTCACTCTTTAATG GTGAGGTTTCAACTCCACAGTTTAATCA ATTGCCGATCGATGTATATATGTAATTTT TAGTTTTGATTTAGTAAATACAGAATTAT TTAACTAGGGTATAGGAAGAGTAGAAG
949	Conyza canadensis	PPOX_B39_9	gDNA Contig	1401	1600	CTTCTACTCTTCCTATACCCTAGTTAAAT AATTCTGTATTTACTAAATCAAAACTAAA AATTACATATATACATCGATCGGCAATT GATTAAACTGTGGAGTTGAAACCTCACC ATTAAAGAGTGAAAAGGTTTGTTTTATT AAAAATCATCTGTCAAAAATTATATGAT ACAATAAAAAAAAAACTCACGTAATGCAG CA
950	Conyza canadensis	PPOX_B39_10	gDNA Contig	1576	1775	AACTAGGGTATAGGAAGAGTAGAAGAC TTGAAAATATGGGTGATAATTTCTTGATT CTTTCAATTTGAGTAAGTTAAAAGAAAT CTTAACTCTTCAAATTTTAGCATTTAATTT TTATCTAAAGGTTAAGATTACCATAATTT GGACTAATCCCCTCCCTAAAAATATATAC CCATTTTCCTTATTTGACTTGGAAAATA
951	Conyza canadensis	PPOX_B39_10	gDNA Contig	1576	1775	TATTTTCCAAGTCAAATAAGGAAAATGG GTATATATTTTTAGGGAGGGGATTAGTC CAAATTATGGTAATCTTAACCTTTAGATA AAAATTAAATGCTAAAATTTGAAGAGTT AAGATTTCTTTTAACTTACTCAAATTGAA AGAATCAAGAAATTATCACCCATATTTTC AAGTCTTCTACTCTTCCTATACCCTAGTT
952	Conyza	PPOX_B39_1	gDNA	1751	195	TTTTCCTTATTTGACTTGGAAAATAGTGG

	canadensis	1	Contig		0	GGTAGATCGGATCTGACCTAACCTGATT TGACCCGATCCGACCCGAACGTTGAAAA TGAAAATTAGTTTACTAGAGGTGGTTCA CCCACAGAGAAGTTATACCAAACCGAAA CAACCCAACAATGGCTTCTCCAACAACA ACTACAGATGATAACAAAGGTAGATACT ATT
953	Conyza canadensis	PPOX_B39_11	gDNA Contig	1751	1950	AATAGTATCTACCTTTGTTATCATCTGTA GTTGTTGTTGGAGAAGCCATTGTTGGGT TGTTTCGGTTTGGTATAACTTCTCTGTGG GTGAACCACCTCTAGTAAACTAATTTTCA TTTTCAACGTTCGGGTCGGATCGGGTCA AATCAGGTTAGGTCAGATCCGATCTACC CCACTATTTTCCAAGTCAAATAAGGAAA A
954	Conyza canadensis	PPOX_B39_12	gDNA Contig	1926	2125	GATGATAACAAAGGTAGATACTATTTCT TTTTCTTCTTAATAATCTTAATATGTTATT ATTTTCATTGTAGATAATCCAGTTCTGCA TTTTGTTGCACAGAGAAAGCACCTGCTA AGAGAGTTGCAGTTGTTGGTGCCGGTGT CAGGTCAATGTTACTACTTTCATATATAT AATATATGTATCTTGCGTTTTATTTTAC
955	Conyza canadensis	PPOX_B39_12	gDNA Contig	1926	2125	GTAAAATAAAACGCAAGATACATATATT ATATATATGAAAGTAGTAACATTGACCT GACACCGGCACCAACAACTGCAACTCTC TTAGCAGGTGCTTTCTCTGTGCAACAAA ATGCAGAACTGGATTATCTACAATGAAA ATAATAACATATTAAGATTATTAAGAAG AAAAAGAAATAGTATCTACCTTTGTTATC ATC
956	Conyza canadensis	PPOX_B39_13	gDNA Contig	2101	2300	ATATGTATCTTGCGTTTTATTTTACTTCTT ACTTTTTACGGCGAAATACCCAAATATCC CACCCCACGGAAGGTTATGTAGACTTTG GTTTTCTTTGACCTCTATAGTTGGTTACT TGTTATGGCCATGAAATGAAAGATTCCT AAACGAGGGTGGAGATTACTCTAGCGTT TGTTTTGACCCCAAAAATGCTTTGCTTG
957	Conyza canadensis	PPOX_B39_13	gDNA Contig	2101	2300	CAAGCAAAGCATTTTTGGGGTCAAAACA AACGCTAGAGTAATCTCCACCCTCGTTTA GGAATCTTTCATTTCATGGCCATAACAA GTAACCAACTATAGAGGTCAAAGAAAAC CAAAGTCTACATAACCTTCCGTGGGGTG GGATATTTGGGTATTTCGCCGTAAAAAG TAAGAAGTAAAATAAAACGCAAGATAC ATAT
958	Conyza canadensis	PPOX_B39_14	gDNA Contig	2276	2475	TTTGACCCCAAAAATGCTTTGCTTGTCGG AGGACATGACCAATATTTGGAGGACTA

						GGATTAGCTTAGCGGAATATGGTAGATA AGTAATCCTTTTAGGGGTACTTTATATAA TTGTGGATTGTCATGCATGATACCTTTCT TATATGCTCATATGACTTCTTTGCACTGT TAGGGGTAGTGTTCTCGACAGCTAGGTG A
959	Conyza canadensis	PPOX_B39_1 4	gDNA Contig	2276	247 5	TCACCTAGCTGTCGAGAACACTACCCCT AACAGTGCAAAGAAGTCATATGAGCAT ATAAGAAAGGTATCATGCATGACAATCC ACAATTATATAAAGTACCCCTAAAAGGA TTACTTATCTACCATATTCCGCTAAGCTA ATCCTAGTCCTCCAAATATTGGTCATGTC CTCCGACAAGCAAAGCATTTTTGGGGTC AAA
960	Conyza canadensis	PPOX_B39_1 5	gDNA Contig	2451	265 0	GGTAGTGTTCTCGACAGCTAGGTGACCT ATGCTACTTTGTTTCATAGGTCGATTAGG GATTAGCACCCACTATTTTTTTATTTTTTG GAAGGCATTAAATTATATTATATTAAAG ATAAAAATTGCCAGTAAGAAACTAGCCG ATACATAGACTGTCCAATCCAAAATAGA AAACTAGCACCCACATTATATGTGGGCC C
961	Conyza canadensis	PPOX_B39_1 5	gDNA Contig	2451	265 0	GGGCCCACATATAATGTGGGTGCTAGTT TTCTATTTTGGATTGGACAGTCTATGTAT CGGCTAGTTTCTTACTGGCAATTTTTATC TTTAATATAATATAATTTAATGCCTTCCA AAAAATAAAAAAATAGTGGGTGCTAATC CCTAATCGACCTATGAAACAAAGTAGCA TAGGTCACCTAGCTGTCGAGAACACTAC C
962	Conyza canadensis	PPOX_B39_1 6	gDNA Contig	2626	282 5	TAGCACCCACATTATATGTGGGCCCACC GGTCCCTAGGACTTCCTAGTAAATATCT ACTTATATCTATGTATGCATGGCTGATAC CAACCCTATTTGCTTTTGTGACTTGCTGG GAGGAGGTTAAAGGGGTTCTTGACTTCT TGCACATGCCACTCGTACTACCAAACCT ATTTGCTTCTATGACTTGCTGGGAGGAG AC
963	Conyza canadensis	PPOX_B39_1 6	gDNA Contig	2626	282 5	GTCTCCTCCCAGCAAGTCATAGAAGCAA ATAGGTTTGGTAGTACGAGTGGCATGTG CAAGAAGTCAAGAACCCCTTTAACCTCC TCCCAGCAAGTCACAAAAGCAAATAGG GTTGGTATCAGCCATGCATACATAGATA TAAGTAGATATTTACTAGGAAGTCCTAG GGACCGGTGGGCCCACATATAATGTGG GTGCTA
964	Conyza	PPOX_B39_1	gDNA	2801	300	CTTCTATGACTTGCTGGGAGGAGACATG

	canadensis	7	Contig		0	CCCCTATTAATTGTTGCTCTCATCCCACA TGTTTGGTTCTATGCAGACGGTTATATTT ATTATGTTTTTATGATGTTTAATATGTTC AAATGTCTTATTTACTATGTATTGTCCAA TTTGGGCTATGTGGTATGTCTTCTACCCT TGTCTACTCTTAATGTAGTAAGAGTAT
965	Conyza canadensis	PPOX_B39_17	gDNA Contig	2801	3000	ATACTCTTACTACATTAAGAGTAGACAA GGGTAGAAGACATACCACATAGCCCAA ATTGGACAATACATAGTAAATAAGACAT TTGAACATATTAAACATCATAAAAACAT AATAAATATAACCGTCTGCATAGAACCA AACATGTGGGATGAGAGCAACAATTAA TAGGGGCATGTCTCCTCCCAGCAAGTCA TAGAAG
966	Conyza canadensis	PPOX_B39_18	gDNA Contig	2976	3175	TCTACTCTTAATGTAGTAAGAGTATCATG ATACTCGGTCGACAGGTATGGTTACTGA ACTCTTTACACTCTCCTACTTTTGCCTTTT TTGGATGGAGGTCCTTATGGAAGTAGTC TTTCTGCCTCTGGGTAGAGGCAAGACTG TCTACATCTCACATCCCCCATACCCCTCG CACAAGAATTGGGTCATGTTGTTTTTGT
967	Conyza canadensis	PPOX_B39_18	gDNA Contig	2976	3175	ACAAAAACAACATGACCCAATTCTTGTG CGAGGGGTATGGGGGATGTGAGATGTA GACAGTCTTGCCTCTACCCAGAGGCAGA AAGACTACTTCCATAAGGACCTCCATCC AAAAAAGGCAAAAGTAGGAGAGTGTAA AGAGTTCAGTAACCATACCTGTCGACCG AGTATCATGATACTCTTACTACATTAAGA GTAGA
968	Conyza canadensis	PPOX_B39_19	gDNA Contig	3151	3350	AAGAATTGGGTCATGTTGTTTTTGTGGA CTCGAACCCAGATGGTAAGATGTTTCCA ATGGGGTTTACATATTGTTGATTTTTTGC TGCTAGTATAATATATTATTTTGATTATT CGTTACATGTATGAAATTTGTAAATAAA TTGGTGAGTATAGTAGTCTAGTGCAACA TGGTGATTGATTGATATCTAGAGGAATG GC
969	Conyza canadensis	PPOX_B39_19	gDNA Contig	3151	3350	GCCATTCCTCTAGATATCAATCAATCACC ATGTTGCACTAGACTACTATACTCACCAA TTTATTTACAAATTTCATACATGTAACGA ATAATCAAAATAATATATTATACTAGCA GCAAAAAATCAACAATATGTAAACCCCA TTGGAAACATCTTACCATCTGGGTTCGA GTCCACAAAAACAACATGACCCAATTCT T
970	Conyza canadensis	PPOX_B39_20	gDNA Contig	3326	3525	ATTGATTGATATCTAGAGGAATGGCCGG CCATATTATGTTGAATCATGAATGAATG

						ACTTGGTTTGTTTCAGTGGGCTTGCGGC TGCATATAAGTTAAAACTACATGGAATA AATGTCACTGTTTTTGAAGCCGGTGAGA TAGCCGGAGGGAAACTAAGAAGCATTT CACAAAACGGTTTAATATGGGACGAGG GTGCCA
971	Conyza canadensis	PPOX_B39_20	gDNA Contig	3326	3525	TGGCACCCTCGTCCCATATTAAACCGTTT TGTGAAATGCTTCTTAGTTTCCCTCCGGC TATCTCACCGGCTTCAAAAACAGTGACA TTTATTCCATGTAGTTTTAACTTATATGC AGCCGCAAGCCCACTGAAACAAACCAA GTCATTCATTCATGATTCAACATAATATG GCCGGCCATTCCTCTAGATATCAATCAAT
972	Conyza canadensis	PPOX_B39_21	gDNA Contig	3501	3700	GGTTTAATATGGGACGAGGGTGCCAAT ACTATGGTATGATATCGATGTTAGTTTG CTTATAGATATAGACATAACTTACTTCTT TTTTTTATTTTTTTTAAAAAAAAGTTGTT TTGATGCTCTTTTACTCCGTATTTGTAGA CTGAGAGTGAACCGGATGTCAGCAGGT TGCTTGATGATCTTGGTCTTCGAGATAA AC
973	Conyza canadensis	PPOX_B39_21	gDNA Contig	3501	3700	GTTTATCTCGAAGACCAAGATCATCAAG CAACCTGCTGACATCCGGTTCACTCTCA GTCTACAAATACGGAGTAAAAGAGCATC AAAACAACTTTTTTTTAAAAAAAATAAAA AAAAAGAAGTAAGTTATGTCTATATCTA TAAGCAAACTAACATCGATATCATACCA TAGTATTGGCACCCTCGTCCCATATTAAA CC
974	Conyza canadensis	PPOX_B39_22	gDNA Contig	3676	3875	GATGATCTTGGTCTTCGAGATAAACAAC AGTCTGTAAGTTATATGCTGTTGGATAT GGAACATCATGCTTCCTGTAGCGTGCGT TTGAAAATTTATTTTTGCAAATTTCTCCC ATTGTATACTAAATGACATAGTATAAAG AAGAGGAAATTGTTTATATCACTTTTATT CGTGTTCAAATACGGAAGGCTAAATCCA CT
975	Conyza canadensis	PPOX_B39_22	gDNA Contig	3676	3875	AGTGGATTTAGCCTTCCGTATTTGAACA CGAATAAAAGTGATATAAACAATTTCCT CTTCTTTATACTATGTCATTTAGTATACA ATGGGAGAAATTTGCAAAAATAAATTTT CAAACGCACGCTACAGGAAGCATGATG TTCCATATCCAACAGCATATAACTTACAG ACTGTTGTTTATCTCGAAGACCAAGATC ATC
976	Conyza canadensis	PPOX_B39_23	gDNA Contig	3851	4050	TCAAATACGGAAGGCTAAATCCACTTTA TGTGGCTGTGGCTGTAATAATTTGTCGG

						CTATGGTTCTTGTTTCATTTATTTGTTGT GGTCATGTGTGTATATGTTTACCATGGC TGAATACTACACTATATTTCCTTTTGCAG CCACTTTCCCAACATAAGCGATATATTGT AAGAAATGGAAAACCGGTACTGGTATG AT
977	Conyza canadensis	PPOX_B39_23	gDNA Contig	3851	4050	ATCATACCAGTACCGGTTTTCCATTTCTT ACAATATATCGCTTATGTTGGGAAAGTG GCTGCAAAAGGAAATATAGTGTAGTATT CAGCCATGGTAAACATATACACACATGA CCACAACAAATAAATGAAACAAGAACCA TAGCCGACAAATTATTACAGCCACAGCC ACATAAAGTGGATTTAGCCTTCCGTATTT GA
978	Conyza canadensis	PPOX_B39_24	gDNA Contig	4026	4225	AATGGAAAACCGGTACTGGTATGATATC TCAACACCATGCTGAAAACTAATCCTCT GTTATATATGAACAAAAGAGTTTAAAAG TATAAGATGAAACTTTACTTCAAAATCAT TAGTAGAAATTGTGTTTTATTGGACTCA AATTCTCAACCTCATAAACACTTGTCATT TGTTTACAAAGTTTTGTAAACTGATTTTG G
979	Conyza canadensis	PPOX_B39_24	gDNA Contig	4026	4225	CCAAAATCAGTTTACAAAACTTTGTAAA CAAATGACAAGTGTTTATGAGGTTGAGA ATTTGAGTCCAATAAAACACAATTTCTAC TAATGATTTTGAAGTAAAGTTTCATCTTA TACTTTTAAACTCTTTTGTTCATATATAAC AGAGGATTAGTTTTCAGCATGGTGTTGA GATATCATACCAGTACCGGTTTTCCATT
980	Conyza canadensis	PPOX_B39_25	gDNA Contig	4201	4400	ACAAAGTTTTGTAAACTGATTTTGGTTTT CTGGGAATGTAAATAATTATGGCAGTTT ATTGTACTGTTCTTTCGTATAGATAGTTA TAAACTCAAAACACAAAAAAAAAGGTTG TTTTATTACGCGGTCGTAGCTGTCACAAT TTTAGTTTTCTTTTGTACTTGCCAAGTTC ATGTCTTATATACTGAATGTAACTTGGC
981	Conyza canadensis	PPOX_B39_25	gDNA Contig	4201	4400	GCCAAGTTACATTCAGTATATAAGACAT GAACTTGGCAAGTACAAAAGAAAACTA AAATTGTGACAGCTACGACCGCGTAATA AAACAACCTTTTTTTTTGTGTTTTGAGTT TATAACTATCTATACGAAAGAACAGTAC AATAAACTGCCATAATTATTTACATTCCC AGAAAACCAAAATCAGTTTACAAAACTT TGT
982	Conyza canadensis	PPOX_B39_26	gDNA Contig	4376	4575	TCTTATATACTGAATGTAACTTGGCCAAA CTCATGTCTGCAGGTACCTTCTAACCCCA TTGCACTGATCCAAAGCAGTTTGCTTTCC

						ACTCAATCAAAGGTTCGTTAGTAGCTCTT GGATGTTTAAGTCTGAAGTATTTAAACC GTATCCAATCCTTTCATTCTCATATTATCT ACCCAATGATTCTCAATGTCAAGGCT
983	Conyza canadensis	PPOX_B39_26	gDNA Contig	4376	4575	AGCCTTGACATTGAGAATCATTGGGTAG ATAATATGAGAATGAAAGGATTGGATA CGGTTTAAATACTTCAGACTTAAACATCC AAGAGCTACTAACGAACCTTTGATTGAG TGGAAAGCAAACTGCTTTGGATCAGTGC AATGGGGTTAGAAGGTACCTGCAGACA TGAGTTTGGCCAAGTTACATTCAGTATA TAAGA
984	Conyza canadensis	PPOX_B39_27	gDNA Contig	4551	4750	CCCAATGATTCTCAATGTCAAGGCTCAC AAAAACTCTTTATCCTACTATGCTTTAAA TTTTTAATAAAAATGATGCATGCCCTTTT CGGTTGTATTTAAAAAATTATCCAAAATT GCAATGGTAATATATTAGCACACGAGTT ACACAAATTCTTTCTCATTTTGATATCAG ATGATCTCAAAATTATAATTTGTACTTC
985	Conyza canadensis	PPOX_B39_27	gDNA Contig	4551	4750	GAAGTACAAATTATAATTTTGAGATCAT CTGATATCAAAATGAGAAAGAATTTGTG TAACTCGTGTGCTAATATATTACCATTGC AATTTTGGATAATTTTTTAAATACAACCG AAAAGGGCATGCATCATTTTTATTAAAA ATTTAAAGCATAGTAGGATAAAGAGTTT TTGTGAGCCTTGACATTGAGAATCATTG GG
986	Conyza canadensis	PPOX_B39_28	gDNA Contig	4726	4925	ATCTCAAAATTATAATTTGTACTTCATTA CATTGTGTATGTGATTATGGGGTTTGTT GCAAAAATTACAGCTTCAAATACTTTTG GAGCCATTTTCATGGAAGAAGAAGAACT CGTCTGATACACAAGAAAGGTAATATAT AGCCTTCTTTCCTATCTATCTGTTAAACC CTATTAGGGACTAACTTTTTATTTATTTA C
987	Conyza canadensis	PPOX_B39_28	gDNA Contig	4726	4925	GTAAATAAATAAAAAGTTAGTCCCTAAT AGGGTTTAACAGATAGATAGGAAAGAA GGCTATATATTACCTTTCTTGTGTATCAG ACGAGTTCTTCTTCTTCCATGAAAATGGC TCCAAAAGTATTTGAAGCTGTAATTTTTG CAACAAACCCCATAATCACATACACAAT GTAATGAAGTACAAATTATAATTTTGAG AT
988	Conyza canadensis	PPOX_B39_29	gDNA Contig	4901	5100	AGGGACTAACTTTTTATTTATTTACTATT TTGTAGTGTTGGTGCATTCTTTCAACGTC ATTTTGGGAAGGAGGTATATGTATATTG TAACCTTTATCTTCAGTTCAGTTATTCTG

						GTATACGTCTTTCTTTTGATATTAAGGGG TCCAAGTTTTCATTTGTGTGGTACTTCAA AATTTGTCCATGCTTTCCGCTATCTTA
989	Conyza canadensis	PPOX_B39_29	gDNA Contig	4901	5100	TAAGATAGCGGAAAGCATGGACAAATT TTGAAGTACCACACAAATGAAAACTTGG ACCCCTTAATATCAAAAGAAAGACGTAT ACCAGAATAACTGAACTGAAGATAAAG GTTACAATATACATATACCTCCTTCCCAA AATGACGTTGAAAGAATGCACCAACACT ACAAAATAGTAAATAAATAAAAAGTTAG TCCCT
990	Conyza canadensis	PPOX_B39_30	gDNA Contig	5076	5275	TTTGTCCATGCTTTCCGCTATCTTAATTTT CTATACTTAATGTACATATGTAAGGTTGT TGAGTATCTCATTAATCCTGTTGTTGCTG GAACAAGCGGTGGAGATCCGGAGTCAC TTTCTGTGAGTAACTCTTCCATGTCCATG CTGCTTCATATTAGTGTGGGGATATACA TAACTGATTTCAATTAACAAACAAAAAC
991	Conyza canadensis	PPOX_B39_30	gDNA Contig	5076	5275	GTTTTTGTTTGTTAATTGAAATCAGTTAT GTATATCCCCACACTAATATGAAGCAGC ATGGACATGGAAGAGTTACTCACAGAA AGTGACTCCGGATCTCCACCGCTTGTTCC AGCAACAACAGGATTAATGAGATACTCA ACAACCTTACATATGTACATTAAGTATA GAAAATTAAGATAGCGGAAAGCATGGA CAAA
992	Conyza canadensis	PPOX_B39_31	gDNA Contig	5251	5450	CTGATTTCAATTAACAAACAAAAACACTT TAAAGCATGTGGAGGTGCAAATGCATTC TTTGACACCCCTGCTAAGTGCTACCTCTC ATCATTAACCTTCTAGGTTAATCTATCAA CCTCATATTTTCCATACAGATGCGCTATT CATTCCCTGAATTATGGGATTTAGAGAG AAGGTATGTAAGCTACAAAATAATATGT
993	Conyza canadensis	PPOX_B39_31	gDNA Contig	5251	5450	ACATATTATTTTGTAGCTTACATACCTTC TCTCTAAATCCCATAATTCAGGGAATGA ATAGCGCATCTGTATGGAAAATATGAGG TTGATAGATTAACCTAGAAGGTTAATGA TGAGAGGTAGCACTTAGCAGGGGTGTC AAAGAATGCATTTGCACCTCCACATGCT TTAAAGTGTTTTTGTTTGTTAATTGAAAT CAG
994	Conyza canadensis	PPOX_B39_32	gDNA Contig	5426	5625	GTATGTAAGCTACAAAATAATATGTAAT TCATTCTTTAAGTGAGCTTGATTATTTGT TCCCATGCAATCTACTATGATTTTTTATT ATAATATTTATAAAGCTTGGATTCTTAAA TTCAATGTGATGATGGTCAAATCAACAT GCAGGTTTGGTTCACTCATTTCTGGGGC

						ATTTCAGTCTATGATCTCTTCTCGAGGCA
995	Conyza canadensis	PPOX_B39_32	gDNA Contig	5426	5625	TGCCTCGAGAAGAGATCATAGACTGAA ATGCCCCAGAAATGAGTGAACCAAACCT GCATGTTGATTTGACCATCATCACATTGA ATTTAAGAATCCAAGCTTTATAAATATTA TAATAAAAAATCATAGTAGATTGCATGG GAACAAATAATCAAGCTCACTTAAAGAA TGAATTACATATTATTTTGTAGCTTACAT AC
996	Conyza canadensis	PPOX_B39_33	gDNA Contig	5601	5800	CAGTCTATGATCTCTTCTCGAGGCAGAA AAAAGAGTCCTTCAGGAAGCAGCAAGC GCAGGCGTGGCTCCTTTTCATTTTTAGGT GGAATGCAGGTAAGATTGGTGATTTTGT CTGTCAAGATTCATTTATTGGAATCTAAT ATATTCTTTAAAGTAGAAACAGGCCATC AATATATTGCTTACTTTGTTCTTTTAAATC T
997	Conyza canadensis	PPOX_B39_33	gDNA Contig	5601	5800	AGATTTAAAAGAACAAAGTAAGCAATAT ATTGATGGCCTGTTTCTACTTTAAAGAAT ATATTAGATTCCAATAAATGAATCTTGAC AGACAAAATCACCAATCTTACCTGCATTC CACCTAAAAATGAAAAGGAGCCACGCCT GCGCTTGCTGCTTCCTGAAGGACTCTTTT TTCTGCCTCGAGAAGAGATCATAGACTG
998	Conyza canadensis	PPOX_B39_34	gDNA Contig	5776	5975	TTGCTTACTTTGTTCTTTTAAATCTTTATT CTCATGCAGACACTTACAAATGCACTGA GCAAAGAAGTTGGACAACATGAACTTA ATCTTCAATCCAAGGTGCTTGAAATGTC CTATAGCTGTGATGATAACACTACTGGG AATTGGTCGATCTATTGTGCTCCAGATC AGAACAAACAATTAAATCAGCAACCTTT TGA
999	Conyza canadensis	PPOX_B39_34	gDNA Contig	5776	5975	TCAAAAGGTTGCTGATTTAATTGTTTGTT CTGATCTGGAGCACAATAGATCGACCAA TTCCCAGTAGTGTTATCATCACAGCTATA GGACATTTCAAGCACCTTGGATTGAAGA TTAAGTTCATGTTGTCCAACTTCTTTGCT CAGTGCATTTGTAAGTGTCTGCATGAGA ATAAAGATTTAAAAGAACAAAGTAAGCA A
1000	Conyza canadensis	PPOX_B39_35	gDNA Contig	5951	6150	AACAATTAAATCAGCAACCTTTTGATGCT GTGATCATGACTGTGAGTATAGTTGTGT TATCTTACGGTGACATTGACATAAATTTG GTTAATGTTTTGCATTTTGACAAGACTAG TTTGTCTCAGCAACTTTTTTTTGTGCTATC TTGGTGGATCTGGATTCATCAAATATTC AAATCTGTGGACAAAATATGGAAATTC

1001	Conyza canadensis	PPOX_B39_35	gDNA Contig	5951	6150	GAATTTCCATATTTTGTCCACAGATTTGAATATTTGATGAATCCAGATCCACCAAGATAGCACAAAAAAAAGTTGCTGAGACAAACTAGTCTTGTCAAAATGCAAAACATTAACCAAATTTATGTCAATGTCACCGTAAGATAACACAACTATACTCACAGTCATGATCACAGCATCAAAAGGTTGCTGATTTAATTGTT
1002	Conyza canadensis	PPOX_B39_36	gDNA Contig	6126	6325	ATCTGTGGACAAAATATGGAAATTCTTATTCTCTATTTCAGAAATAGGAGAATTATTGTTTATACACCCATTTGTTTTAATGCTTATTAGTTTGTAAGTGCAATTAGAACGTAATTAACACAGTACATGCTCCCGAATTAGGCCCCACTTGGCAATGTGAAAGAAATGAAGATTACAAAGACAGGAAGTCTGTTCCTGCT
1003	Conyza canadensis	PPOX_B39_36	gDNA Contig	6126	6325	AGCAGGAACAGACTTCCTGTCTTTGTAATCTTCATTTCTTTCACATTGCCAAGTGGGGCCTAATTCGGGAGCATGTACTGTGTTAATTACGTTCTAATTGCACTTACAAACTAATAAGCATTAAAACAAATGGGTGTATAAACAATAATTCTCCTATTTCTGAAATAGAGAATAAGAATTTCCATATTTTGTCCACAGAT
1004	Conyza canadensis	PPOX_B39_37	gDNA Contig	6301	6500	CAAAGACAGGAAGTCTGTTCCTGCTCAATTTTATACCTGAGGTATGTTATTGTACCGTGTGAGTTCTATCATATGGAATTCGTGCAGAACCCCTTAGTTTTAGCTCTTTTGAAATTTAAACAATAATCTTTACCATGGGGAGATATCCTTTAAAGGAATATTTTCTGGTTTTTATAATGCAGCTTAGTTATATGCCAGTT
1005	Conyza canadensis	PPOX_B39_37	gDNA Contig	6301	6500	AACTGGCATATAACTAAGCTGCATTATAAAAACCAGAAAATATTCCTTTAAAGGATATCTCCCCATGGTAAAGATTATTGTTTAAATTTCAAAAGAGCTAAAACTAAGGGGTTCTGCACGAATTCCATATGATAGAACTCACACGGTACAATAACATACCTCAGGTATAAAATTGAGCAGGAACAGACTTCCTGTCTTTG
1006	Conyza canadensis	PPOX_B39_38	gDNA Contig	6476	6675	AATGCAGCTTAGTTATATGCCAGTTTCAGTCATAATCTCTACATTCAAGAAAGAGAATGTGAAGCGGCCCCTTGAGGGATTTGGAATGCTTGTTCCTGCCAAGGAGCAGGAAAATGGTTTGAAGACGTTAGGTAAAGCTTGCCTGTGTATTATCTTTTTTTTTTTTTCCTTTTCATTTTTTTTTCATTTTTTTTTCTTT
1007	Conyza canadensis	PPOX_B39_38	gDNA Contig	6476	6675	AAAGAAAAAAAAATGAAAAAAAAATGAAAAGGAAAAAAAAAAAAAAGATAATAC

						ACAGGCAAGCTTTACCTAACGTCTTCAA ACCATTTTCCTGCTCCTTGGCAGGAACA AGCATTCCAAATCCCTCAAGGGGCCGCT TCACATTCTCTTTCTTGAATGTAGAGATT ATGACTGAAACTGGCATATAACTAAGCT GCATT
1008	Conyza canadensis	PPOX_B39_39	gDNA Contig	6651	6850	ATTTTTTTTTCATTTTTTTTTCTTTATTGTC TATAATTATTATTGAAAATTCTGTTATGC AGGCACTCTCTTTTCTTCCATGATGTTTC CAGATCGTGCCCCTGAAGACTTGTATCT TTATACCACCTTTGTTGGGGGAAGTCGA AACAAAGAACTGGCCAATGCTTCGAGGT AGGCTTGATCATTGCAATAATTTCTGC
1009	Conyza canadensis	PPOX_B39_39	gDNA Contig	6651	6850	GCAGAAATTATTGCAATGATCAAGCCTA CCTCGAAGCATTGGCCAGTTCTTTGTTTC GACTTCCCCCAACAAAGGTGGTATAAAG ATACAAGTCTTCAGGGGCACGATCTGGA AACATCATGGAAGAAAAGAGAGTGCCT GCATAACAGAATTTTCAATAATAATTATA GACAATAAAGAAAAAAAAATGAAAAAA AAAT
1010	Conyza canadensis	PPOX_B39_40	gDNA Contig	6826	7025	GCTTGATCATTGCAATAATTTCTGCTCAA TATTTTAGCTTCAAATTTACTCAAGTATT GAGGAAGTAGTTGTATAATGGCTGTCTC TAAAAACTTCATAAGAGAATCTTCTTGA CCATTCCCTATAGGAATATCAATCTATTA TTTATGATGATTATGATGAGTAAGTAAT AATTTAGTTTGGAAACTTTTTTGGAGGA A
1011	Conyza canadensis	PPOX_B39_40	gDNA Contig	6826	7025	TTCCTCCAAAAAAGTTTCCAAACTAAATT ATTACTTACTCATCATAATCATCATAAAT AATAGATTGATATTCCTATAGGGAATGG TCAAGAAGATTCTCTTATGAAGTTTTTAG AGACAGCCATTATACAACTACTTCCTCAA TACTTGAGTAAATTTGAAGCTAAAATAT TGAGCAGAAATTATTGCAATGATCAAGC
1012	Conyza canadensis	PPOX_B39_41	gDNA Contig	7001	7200	TAGTTTGGAAACTTTTTTGGAGGAAAGG AGAAATGTTGGAGCTTTCTTGTTGCTGT TTAAGGGGAGAGGACATAACTCAAGTA TAATTCTTGCAATAATATATATTTTCTGT AAATACAGGGATGAGTTGAAGCAGATA GTAACTTCTGACCTCAGACAGTTGCTTG GAGCAGAGGGAGAGCCACAATTTTTGA CGTAAG
1013	Conyza canadensis	PPOX_B39_41	gDNA Contig	7001	7200	CTTACGTCAAAAATTGTGGCTCTCCCTCT GCTCCAAGCAACTGTCTGAGGTCAGAAG TTACTATCTGCTTCAACTCATCCCTGTATT

						TACAGAAAATATATATTATTGCAAGAAT TATACTTGAGTTATGTCCTCTCCCCTTAA ACAGCAACAAGAAAGCTCCAACATTTCT CCTTTCCTCCAAAAAAGTTTCCAAACTA
1014	Conyza canadensis	PPOX_B39_42	gDNA Contig	7176	7375	GGAGAGCCACAATTTTTGACGTAAGGAC ACATTCTAGCTCTGCTGCTTTTATTAAAC GTTAGTTTATCTAGATCAAAGGATTGCA AGAATTGCATTCCTGAGCACTATACAAA CAATTACACAACTTAATTTTCAGCTTAGA CTTTTTCATTGGCGCATGTTCACCAATTG AAATTGTTTCTTGAAATTTAACTTTTTTT
1015	Conyza canadensis	PPOX_B39_42	gDNA Contig	7176	7375	AAAAAAAGTTAAATTTCAAGAAACAATT TCAATTGGTGAACATGCGCCAATGAAAA AGTCTAAGCTGAAAATTAAGTTGTGTAA TTGTTTGTATAGTGCTCAGGAATGCAAT TCTTGCAATCCTTTGATCTAGATAAACTA ACGTTTAATAAAAGCAGCAGAGCTAGA ATGTGTCCTTACGTCAAAAATTGTGGCT CTCC
1016	Conyza canadensis	PPOX_B39_43	gDNA Contig	7351	7550	TGTTTCTTGAAATTTAACTTTTTTTTAAAA GCCCGAGGTTCACAGATACTTGTACAAT GTACAAGTAGCTTATGCTTAATTTGTCTT GTGTTTTTTTGTTCATGTCATACATGATA ATGATGTAGTTTAATTGCAGTCACTATTA CTGGAGCAAAGCATATCCATTGTACGGG CGTGACTATGGCTTAGTTATGGAAGCA
1017	Conyza canadensis	PPOX_B39_43	gDNA Contig	7351	7550	TGCTTCCATAACTAAGCCATAGTCACGC CCGTACAATGGATATGCTTTGCTCCAGT AATAGTGACTGCAATTAAACTACATCAT TATCATGTATGACATGAACAAAAAAACA CAAGACAAATTAAGCATAAGCTACTTGT ACATTGTACAAGTATCTGTGAACCTCGG GCTTTTAAAAAAAAGTTAAATTTCAAGA AACA
1018	Conyza canadensis	PPOX_B39_44	gDNA Contig	7526	7725	TGACTATGGCTTAGTTATGGAAGCAATT GAGAAGATGGAAAGAGAGCTACCTGGT TACTTTTATGCGGGTAAACCTTTTTGTGT TTGAAATAAAGTAGATATATACATATCT ATACTCCCTTATAAAGAGTATTAGATTTC TTAAAATTAAGCATTTTTTTTCTTCCTAAA ATACCCCTACTTATACATAAAACCTTTAT
1019	Conyza canadensis	PPOX_B39_44	gDNA Contig	7526	7725	ATAAAGGTTTTATGTATAAGTAGGGGTA TTTTAGGAAGAAAAAAAATGCTTAATTT TAAGAAATCTAATACTCTTTATAAGGGA GTATAGATATGTATATATCTACTTTATTT CAAACACAAAAAGGTTTACCCGCATAAA AGTAACCAGGTAGCTCTCTTTCCATCTTC

						TCAATTGCTTCCATAACTAAGCCATAGTC A
1020	Conyza canadensis	PPOX_B39_4 5	gDNA Contig	7701	790 0	CCCTACTTATACATAAAACCTTTATATAT CATCCTTTCCCACATTGTCTCTAATCATTA CACGCTCTCCTCGACCTTCTATCACCCTC CGCCGCCGCCCTCCTTCTCCACCACCGCC CTCGATCTCCACCACCGCCTCCCTTTTAT ATTGTCATCGCCTTTTAGCCGTTGCAACG CGCGGACACTATGCTCGTATTAAAA
1021	Conyza canadensis	PPOX_B39_4 5	gDNA Contig	7701	790 0	TTTTAATACGAGCATAGTGTCCGCGCGT TGCAACGGCTAAAAGGCGATGACAATA TAAAAGGGAGGCGGTGGTGGAGATCGA GGGCGGTGGTGGAGAAGGAGGGCGGC GGCGGAGGGTGATAGAAGGTCGAGGA GAGCGTGTAATGATTAGAGACAATGTG GGAAAGGATGATATATAAAGGTTTTATG TATAAGTAGGG
1022	Conyza canadensis	PPOX_B39_4 6	gDNA Contig	7876	807 5	CGCGGACACTATGCTCGTATTAAAAGTA GTAACGTAATAAACATAAAGTTTACGTA AAGTTTATATATTTCATTATTTTGTTATG ATTTTGTACTGATGAATATATATTTAAGC TAAAATCATTCACTCTAGAGTGTAAGTC GAACGGGTCCAAACTGAACTAAACTATT TGTCTATGGTAGTCAAATTCTTAATCTTT T
1023	Conyza canadensis	PPOX_B39_4 6	gDNA Contig	7876	807 5	AAAAGATTAAGAATTTGACTACCATAGA CAAATAGTTTAGTTCAGTTTGGACCCGTT CGACTTACACTCTAGAGTGAATGATTTT AGCTTAAATATATATTCATCAGTACAAA ATCATAACAAAATAATGAAATATATAAA CTTTACGTAAACTTTATGTTTATTACGTT ACTACTTTTAATACGAGCATAGTGTCCG CG
1024	Conyza canadensis	PPOX_B39_4 7	gDNA Contig	8051	825 0	ATGGTAGTCAAATTCTTAATCTTTTTGGT ATCGATCGTTGTGTAGTGTTGCACACCT CACTTGATATTAGTTTTATGTGATTATAT ATGGTTAATTTAATTTTTCTTTGATTTTTG ATCATGGTCTTAAATATCATTAAAGGTG AAGAAACATGTGAAGAGGGATAAATTT GGAGAAAGAATGGCATCACTAAAACAG AT
1025	Conyza canadensis	PPOX_B39_4 7	gDNA Contig	8051	825 0	ATCTGTTTTAGTGATGCCATTCTTTCTCC AAATTTATCCCTCTTCACATGTTTCTTCAC CTTTAATGATATTTAAGACCATGATCAAA AATCAAAGAAAAATTAAATTAACCATAT ATAATCACATAAAACTAATATCAAGTGA GGTGTGCAACACTACACAACGATCGATA

						CCAAAAAGATTAAGAATTTGACTACCAT
1026	Conyza canadensis	PPOX_B39_48	gDNA Contig	8226	8425	AAAGAATGGCATCACTAAAACAGATAGT GTCACCCTATGGCAAGGTTAGTCCTTCTT TAAGTTTATTAATTATATGTAATTTGTTT GATTAGGTATATCATATATGTATACTAGT TGTTTTGATTTCCAATCTATACAAGTAGG ATTTTGCTAAACATAGTTGTAAGGGTTA TAGTTACAACACAATAGAATGGTATACA
1027	Conyza canadensis	PPOX_B39_48	gDNA Contig	8226	8425	TGTATACCATTCTATTGTGTTGTAACTAT AACCCTTACAACTATGTTTAGCAAAATCC TACTTGTATAGATTGGAAATCAAAACAA CTAGTATACATATATGATATACCTAATCA AACAAATTACATATAATTAATAAACTTAA AGAAGGACTAACCTTGCCATAGGGTGA CACTATCTGTTTTAGTGATGCCATTCTTT
1028	Conyza canadensis	PPOX_B39_49	gDNA Contig	8401	8600	TTACAACACAATAGAATGGTATACATAC ATTATATATATATAAAGATATATAACTGT TTATTAATAATAATCTTTAACCGTCATGT AAACCAATTTACTTTGCTTTATCCATATC CTTAAAGGCTATGAATAGCATAGTCGAT GTAAGTATATGGTTGCTTAGACGGTGTG TTAATGTTGATCGTACAGGAGTCTAGAC T
1029	Conyza canadensis	PPOX_B39_49	gDNA Contig	8401	8600	AGTCTAGACTCCTGTACGATCAACATTA ACACACCGTCTAAGCAACCATATACTTA CATCGACTATGCTATTCATAGCCTTTAAG GATATGGATAAAGCAAAGTAAATTGGTT TACATGACGGTTAAAGATTATTATTAAT AAACAGTTATATATCTTTATATATATATA ATGTATGTATACCATTCTATTGTGTTGTA A
1030	Conyza canadensis	PPOX_B39_50	gDNA Contig	8576	8775	TGTTGATCGTACAGGAGTCTAGACTTGG ACCATTGTGTTTTAGAGAAGAAGGGAAT CGAACGCAAAGGTAAAACTTCCTTTATT TTTAAGAGCATAGTTATAATATCATTCAA ATTTAACCAACAATTTCTGTTACATACAT CGAAATAGGCTTGATTACTCATACCTAT AGAGATGAGTGACATGTGTGTATGAAG ATT
1031	Conyza canadensis	PPOX_B39_50	gDNA Contig	8576	8775	AATCTTCATACACACATGTCACTCATCTC TATAGGTATGAGTAATCAAGCCTATTTC GATGTATGTAACAGAAATTGTTGGTTAA ATTTGAATGATATTATAACTATGCTCTTA AAAATAAAGGAAGTTTTACCTTTGCGTT CGATTCCCTTCTTCTCTAAAACACAATGG TCCAAGTCTAGACTCCTGTACGATCAAC A

1032	Conyza canadensis	PPOX_B39_51	gDNA Contig	8751	8950	TGAGTGACATGTGTGTATGAAGATTTAT ATATTGAATTGTAGGATATCATTTTCCCA TTTCTAATGTACTAGTTAATTATGGTTTG CGGTTTTTTTCTTTGTTGTATGTCCATTAC AAAATTACAGTTGGACATCTTCTTGGTG GAATTCAGATGATATAAAATAGTTAATT TTACCAAACACTACATCATTGGTAGAGA
1033	Conyza canadensis	PPOX_B39_51	gDNA Contig	8751	8950	TCTCTACCAATGATGTAGTGTTTGGTAA AATTAACTATTTTATATCATCTGAATTCC ACCAAGAAGATGTCCAACTGTAATTTTG TAATGGACATACAACAAAGAAAAAAACC GCAAACCATAATTAACTAGTACATTAGA AATGGGAAAATGATATCCTACAATTCAA TATATAAATCTTCATACACACATGTCACT CA
1034	Conyza canadensis	PPOX_B39_52	gDNA Contig	8926	9125	CCAAACACTACATCATTGGTAGAGAGAA ATTAGAACGTAGATAAATGGTTTGTAAG TTTCAAAAGAGATACTCGTATTACATAA AATGTTGTCTTTTGCAATTCGCAGATTTC CAATTACAACAGATTTGACACAATGTTCT ATTATTTGTTAATCCAACCATGAACCACT AATAAAACAGTACAAACATCTTGAATAA A
1035	Conyza canadensis	PPOX_B39_52	gDNA Contig	8926	9125	TTTATTCAAGATGTTTGTACTGTTTTATT AGTGGTTCATGGTTGGATTAACAAATAA TAGAACATTGTGTCAAATCTGTTGTAATT GGAAATCTGCGAATTGCAAAAGACAAC ATTTTATGTAATACGAGTATCTCTTTTGA AACTTACAAACCATTTATCTACGTTCTAA TTTCTCTCTACCAATGATGTAGTGTTTGG
1036	Conyza canadensis	PPOX_B39_53	gDNA Contig	9101	9300	AAACAGTACAAACATCTTGAATAAAAAA AAGCCACCAATACATTATTGATTGTTGTA TGCTTTTTGTCTCCATATAATGACCAGTA ATATCAAAAAACATGTATTTTATTCTTAT TCTAGCTTAAAAAGGTTCAAAAATGCAC ATCCAACTTTCTCTCTTCTTTCCAATCATA GCTTTTCAAATTAAAAGCATACACGTA
1037	Conyza canadensis	PPOX_B39_53	gDNA Contig	9101	9300	TACGTGTATGCTTTTAATTTGAAAAGCTA TGATTGGAAAGAAGAGAGAAAGTTGGA TGTGCATTTTTGAACCTTTTTAAGCTAGA ATAAGAATAAAATACATGTTTTTTGATAT TACTGGTCATTATATGGAGACAAAAAGC ATACAACAATCAATAATGTATTGGTGGC TTTTTTTTATTCAAGATGTTTGTACTGTTT
1038	Conyza canadensis	PPOX_B39_54	gDNA Contig	9276	9475	TTTTCAAATTAAAAGCATACACGTAAAA GAAACATATGGATGTAGATTGATATGTG TGTGGGGGGTAGTTGGTTAACCATGTCA

						CGTGCTCTGCATCACCTCCCATCCTTGGA CCCCAATTTGTTTTTTGTACCTACTACAT ATTTAAGTAACTTTATGGCACCTCACCAA AAACCAACCAAACAAACCAAACTCCCAA C
1039	Conyza canadensis	PPOX_B39_54	gDNA Contig	9276	9475	GTTGGGAGTTTGGTTTGTTTGGTTGGTT TTTGGTGAGGTGCCATAAAGTTACTTAA ATATGTAGTAGGTACAAAAAACAAATTG GGGTCCAAGGATGGGAGGTGATGCAGA GCACGTGACATGGTTAACCAACTACCCC CCACACACATATCAATCTACATCCATATG TTTCTTTTACGTGTATGCTTTTAATTTGA AAA
1040	Conyza canadensis	PPOX_B39_55	gDNA Contig	9451	9650	CAACCAAACAAACCAAACTCCCAACTAT ACATCACTTAATTGCACACACACATATAC CTCAACAAGTACTTACATCTCTCCCAGAT TTCTGTCATTCCAATTTTCTTGTTTTTAAT CACAATTTTGTTGTTGTTGTCAATGTCTG TCTCTTTTCAAACCAGCTAAAAAAAGAA GCAAATTCTTGATTTGATTCAGCTGTT
1041	Conyza canadensis	PPOX_B39_55	gDNA Contig	9451	9650	AACAGCTGAATCAAATCAAGAATTTGCT TCTTTTTTTAGCTGGTTTGAAAAGAGACA GACATTGACAACAACAACAAAATTGTGA TTAAAAACAAGAAAATTGGAATGACAG AAATCTGGGAGAGATGTAAGTACTTGTT GAGGTATATGTGTGTGTGCAATTAAGTG ATGTATAGTTGGGAGTTTGGTTTGTTTG GTTG
1042	Conyza canadensis	PPOX_B39_56	gDNA Contig	9626	9825	AAATTCTTGATTTGATTCAGCTGTTGTTC CACTTGTTTATGGTTAGTCTTTCTCATTCT TTCACCCCCCAAGTTTAAATCTTTGAGTT AATTTCTTCAAATTCCTGTGTTTTTTGAA CCGGGTTTTTATCAGTTTTGTTGAGTTTA GCAAAAAAGTAGAGTTGGGTATGTAAA GATTGAATCTTTTTACTGGGTTTATGT
1043	Conyza canadensis	PPOX_B39_56	gDNA Contig	9626	9825	ACATAAACCCAGTAAAAAGATTCAATCT TTACATACCCAACTCTACTTTTTTGCTAA ACTCAACAAAACTGATAAAAACCCGGTT CAAAAAACACAGGAATTTGAAGAAATTA ACTCAAAGATTTAAACTTGGGGGGTGAA AGAATGAGAAAGACTAACCATAAACAA GTGGAACAACAGCTGAATCAAATCAAG AATTT
1044	Conyza canadensis	PPOX_B39_57	gDNA Contig	9801	10000	TTGAATCTTTTTACTGGGTTTATGTAATT TCTTTGAAATTTATAAGTTTCTTGCAATG GGTATATGATTTTCTATTGATTGAAGTG GTTAATAACAGGATTTGGTGAGTAAAGT

						TTGAATCTTTCGAGTTATGGATTTATGTC ATACCTTTTCTTGCCCTTCAAAATAAAGT CAAAGCTTTAGTTTTGTGATTTGACTTT
1045	Conyza canadensis	PPOX_B39_57	gDNA Contig	9801	10000	AAAGTCAAATCACAAAACTAAAGCTTTG ACTTTATTTTGAAGGGCAAGAAAAGGTA TGACATAAATCCATAACTCGAAAGATTC AAACTTTACTCACCAAATCCTGTTATTAA CCACTTCAATCAATAGAAAATCATATACC CATTGCAAGAAACTTATAAATTTCAAAG AAATTACATAAACCCAGTAAAAAGATTC AA
1046	Conyza canadensis	PPOX_B39_58	gDNA Contig	9976	10175	AGCTTTAGTTTTGTGATTTGACTTTGGTA TCCCTTCAAAATAAAGTCAAAGCTTTAGT TTTGTGATTTGACTTTGGTATGCTGTTGC TCCCATGAATATTTTCATGCTGTTTGTAA ATTGTAATATATATTTTGATAAATTCAAT TTTGTTATATTTGTTTCCTGATAAAGTTTT AATGTGATTAGTGATTACTTCAATT
1047	Conyza canadensis	PPOX_B39_58	gDNA Contig	9976	10175	AATTGAAGTAATCACTAATCACATTAAA ACTTTATCAGGAAACAAATATAACAAAA TTGAATTTATCAAAATATATATTACAATT TACAAACAGCATGAAAATATTCATGGGA GCAACAGCATACCAAAGTCAAATCACAA AACTAAAGCTTTGACTTTATTTTGAAGG GATACCAAAGTCAAATCACAAAACTAAA GCT
1048	Conyza canadensis	PPOX_B36_1	cDNA Contig	1	200	CGATTCGAGTTCCCGGCCATTGCTCGAT TGCGTGGTCGTCGGCGCCGGAATTAGC GGACTGTGTATAGCGCAAGCGTTGTCAA CGAAGCACGGCGGCGACGTGGTCGTGA CAGAGGCGCGTGAGAGAGTTGGAGGA AATATATCGACAGTTGAAAGAGATGGTT ATTTATGGGAAGAAGGTCCTAATAGCTT TCAACCCT
1049	Conyza canadensis	PPOX_B36_1	cDNA Contig	1	200	AGGGTTGAAAGCTATTAGGACCTTCTTC CCATAAATAACCATCTCTTTCAACTGTCG ATATATTTCCTCCAACTCTCTCACGCGCC TCTGTCACGACCACGTCGCCGCCGTGCT TCGTTGACAACGCTTGCGCTATACACAG TCCGCTAATTCCGGCGCCGACGACCACG CAATCGAGCAATGGCCGGGAACTCGAA TCG
1050	Conyza canadensis	PPOX_B36_2	cDNA Contig	176	375	GAAGGTCCTAATAGCTTTCAACCCTCCG ATCCTATGCTTACTATGGTGGTGGACAG TGGATTGAAGGATGATTTGGTGTTGGGT GATCCAACTGCACCTCGGTTTGTGTTAT GGGATGGTGATCTGAAGCCGGTGCCTTC

						CAGTCCATCTGATTTGCCTACCTTTGATC TGATGAGCCTTGGTGGGAAACTCCGAG CCGG
1051	Conyza canadensis	PPOX_B36_2	cDNA Contig	176	375	CCGGCTCGGAGTTTCCCACCAAGGCTCA TCAGATCAAAGGTAGGCAAATCAGATG GACTGGAAGGCACCGGCTTCAGATCACC ATCCCATAACACAAACCGAGGTGCAGTT GGATCACCCAACACCAAATCATCCTTCA ATCCACTGTCCACCACCATAGTAAGCAT AGGATCGGAGGGTTGAAAGCTATTAGG ACCTTC
1052	Conyza canadensis	PPOX_B36_3	cDNA Contig	351	550	GCCTTGGTGGGAAACTCCGAGCCGGTTT TGGGGCTCTTGGAATCCGCCCTCCACCT CCAGACCGTGAGGAATCTGTTGAAGAG TTTGTCCGGCGTAATCTTGGTGATGAAG TTTTTGAACGTTTGATTGAACCATTTTGC TCAGGTGTTTACGCGGGGGATCCATCAA AACTTAGTATGAAAGCAGCATTTGGAAA GGTT
1053	Conyza canadensis	PPOX_B36_3	cDNA Contig	351	550	AACCTTTCCAAATGCTGCTTTCATACTAA GTTTTGATGGATCCCCCGCGTAAACACC TGAGCAAAATGGTTCAATCAAACGTTCA AAAACTTCATCACCAAGATTACGCCGGA CAAACTCTTCAACAGATTCCTCACGGTCT GGAGGTGGAGGGCGGATTCCAAGAGCC CCAAAACCGGCTCGGAGTTTCCCACCAA GGC
1054	Conyza canadensis	PPOX_B36_4	cDNA Contig	526	725	TATGAAAGCAGCATTTGGAAAGGTTTGG AAGCTGGAGCAAAATGGTGGTAGCATT GTTGGGGGAGCATTTAAAGCAATCCAA GCTAAAAATAAGAGTACCAAGCCTCCTC GAGACCCGAGATTACCAACACCGAAGG GCCAAACTGTTGGATCTTTTAGGAAGGG ACAAGCAATGTTGCCTAATGCCATCTCA AAAGGGT
1055	Conyza canadensis	PPOX_B36_4	cDNA Contig	526	725	ACCCTTTTGAGATGGCATTAGGCAACAT TGCTTGTCCCTTCCTAAAAGATCCAACAG TTTGGCCCTTCGGTGTTGGTAATCTCGG GTCTCGAGGAGGCTTGGTACTCTTATTT TTAGCTTGGATTGCTTTAAATGCTCCCCC AACAATGCTACCACCATTTTGCTCCAGCT TCCAAACCTTTCCAAATGCTGCTTTCATA
1056	Conyza canadensis	PPOX_B36_5	cDNA Contig	701	900	TTGCCTAATGCCATCTCAAAAGGGTTGG GTAGCAGAGTGAAGTTATCCTGGGAGC TCGTAGGTATCACTAAATCTGAGAATAG AGGGTATAGTTTGACATATCGAACACCA GATGGATTGGAAAGTCTGCAGACTAAA

						ACTGTTGTCATGACTGTTCCATCCTATGT GGCTAGTGACTTGTTGCGTCCTCTTTCG GTGGA
1057	Conyza canadensis	PPOX_B36_5	cDNA Contig	701	900	TCCACCGAAAGAGGACGCAACAAGTCA CTAGCCACATAGGATGGAACAGTCATGA CAACAGTTTTAGTCTGCAGACTTTCCAAT CCATCTGGTGTTCGATATGTCAAACTATA CCCTCTATTCTCAGATTTAGTGATACCTA CGAGCTCCCAGGATAACTTCACTCTGCT ACCCAACCCTTTTGAGATGGCATTAGGC AA
1058	Conyza canadensis	PPOX_B36_6	cDNA Contig	876	1075	ACTTGTTGCGTCCTCTTTCGGTGGAAGC AGCAGATGCTTTGTCAAAATTTTATTATC CCCCGGTTGCAGCTGTATCTGTTTCCTAT CCAAAAGAGGCAATTCGTGCGGACCGTT TGATTGACGGTCAGCTCAAGGGTTTTGG TCAGTTGCATCCACGAAGTCAGGGCGTG GAGACTCTAGGTACCATATACAGTTCGT CT
1059	Conyza canadensis	PPOX_B36_6	cDNA Contig	876	1075	AGACGAACTGTATATGGTACCTAGAGTC TCCACGCCCTGACTTCGTGGATGCAACT GACCAAAACCCTTGAGCTGACCGTCAAT CAAACGGTCCGCACGAATTGCCTCTTTT GGATAGGAAACAGATACAGCTGCAACC GGGGGATAATAAAATTTTGACAAAGCAT CTGCTGCTTCCACCGAAAGAGGACGCAA CAAGT
1060	Conyza canadensis	PPOX_B36_7	cDNA Contig	1051	1250	TCTAGGTACCATATACAGTTCGTCTCTTT TCCCTAACCGTGCTCCACCTGGAAGGGT TCTGCTCCTGAACTACATTGGAGGGGCT ACAAATCCTGGTATTTTATCAAAGACGG AGAGTCAAATTGTTGAAGCAGTTGATCG CGACCTACGGAAGATGCTGATAAATCCT AAAGCAGGAGAGCCATTGACCTTAGGA GTGA
1061	Conyza canadensis	PPOX_B36_7	cDNA Contig	1051	1250	TCACTCCTAAGGTCAATGGCTCTCCTGCT TTAGGATTTATCAGCATCTTCCGTAGGTC GCGATCAACTGCTTCAACAATTTGACTCT CCGTCTTTGATAAAATACCAGGATTTGT AGCCCCTCCAATGTAGTTCAGGAGCAGA ACCCTTCCAGGTGGAGCACGGTTAGGG AAAAGAGACGAACTGTATATGGTACCTA GA
1062	Conyza canadensis	PPOX_B36_8	cDNA Contig	1226	1425	GGAGAGCCATTGACCTTAGGAGTGAAA GTGTGGCCTCGAGCGATCCCACAGTTTC TGATTGGTCATTATGACATTTTAGAGGC TGCTAAATGTGCTCTTAGTCTTGCTGGAT

						ACCGGGGTATGTTTCTTGGAGGGAACTA TGTATCTGGTGTAGCTTTAGGTAGATGT GTGGAGAATGCCTATGAGGTTGCAGCC GATGT
1063	Conyza canadensis	PPOX_B36_8	cDNA Contig	1226	1425	ACATCGGCTGCAACCTCATAGGCATTCT CCACACATCTACCTAAAGCTACACCAGA TACATAGTTCCCTCCAAGAAACATACCCC GGTATCCAGCAAGACTAAGAGCACATTT AGCAGCCTCTAAAATGTCATAATGACCA ATCAGAAACTGTGGGATCGCTCGAGGC CACACTTTCACTCCTAAGGTCAATGGCTC TCC
1064	Conyza canadensis	PPOX_B36_9	cDNA Contig	1401	1600	ATGCCTATGAGGTTGCAGCCGATGTAAG TAATTTTTTGTCACGGGGCGTGTACAAG TAATACGTCACTCTTCGGAAATTAGTGTT TATGAGGTTAGTAATTAAAGTTTTGGCA CAAGGCATGTGGAAGTGAAAACGCGGA CTTTCAGTGAAGTTAGTCATCTATTCTCA AGCCTCATGGCTAAATGTAATTCGAGTT AAT
1065	Conyza canadensis	PPOX_B36_9	cDNA Contig	1401	1600	ATTAACTCGAATTACATTTAGCCATGAG GCTTGAGAATAGATGACTAACTTCACTG AAAGTCCGCGTTTTCACTTCCACATGCCT TGTGCCAAAACTTTAATTACTAACCTCAT AAACACTAATTTCCGAAGAGTGACGTAT TACTTGTACACGCCCCGTGACAAAAAAT TACTTACATCGGCTGCAACCTCATAGGC AT
1066	Conyza canadensis	PPOX_B40_1	gDNA Contig	1	200	CGTCACCATACTGCCACGGTCGCCACAC CTTCGTCTCTATCACTATCACCGTCGCAT CGCACGGACATCATCTAGTCAATATTTAT TTATGAGGAATGGAGATATATCTATACT TTCATATTAAATTAAACTGCCTATTTTTTT CAACTATTCTACCTTTGAAATGCCTATTA TACCCTCCTATAAACAACTATCCATTC
1067	Conyza canadensis	PPOX_B40_1	gDNA Contig	1	200	GAATGGATAGTTGTTTATAGGAGGGTAT AATAGGCATTTCAAAGGTAGAATAGTTG AAAAAAATAGGCAGTTTAATTTAATATG AAAGTATAGATATATCTCCATTCCTCATA AATAAATATTGACTAGATGATGTCCGTG CGATGCGACGGTGATAGTGATAGAGAC GAAGGTGTGGCGACCGTGGCAGTATGG TGACG
1068	Conyza canadensis	PPOX_B40_2	gDNA Contig	176	375	CCCTCCTATAAACAACTATCCATTCTACT CTTTTAATTGATTTTCTCGTACTACCCTTC CATCTATTTCCCAATACTTATCCCTAATCT CTAATCCCCTCCTCTCTTGCTGTCGCCGA

						AAACCTAATAGAAAAATTAGTTTCATTTC TACGGCAACTACCATAAACCTACAAAAA GATTGGTTTTATCTCTCCCTCACCA
1069	Conyza canadensis	PPOX_B40_2	gDNA Contig	176	375	TGGTGAGGGAGAGATAAAACCAATCTTT TTGTAGGTTTATGGTAGTTGCCGTAGAA ATGAAACTAATTTTTCTATTAGGTTTTCG GCGACAGCAAGAGAGGAGGGGATTAG AGATTAGGGATAAGTATTGGGAAATAG ATGGAAGGGTAGTACGAGAAAATCAAT TAAAAGAGTAGAATGGATAGTTGTTTAT AGGAGGG
1070	Conyza canadensis	PPOX_B40_3	gDNA Contig	351	550	GATTGGTTTTATCTCTCCCTCACCACCAC CACCACAAATCACCCATTCCTTACAAGCT CTCAAATCGGTTAGGTGATTTTCCATTGA AATCGCTTGTTTTTATTTTATTTTATTATA TCTAATTTCCTAATTTAAATCCATTGTTTT TGTATTTTTCCCAATTTTCTTTTTGAATTT GGTTTGGGTTAATGTTCTGATCA
1071	Conyza canadensis	PPOX_B40_3	gDNA Contig	351	550	TGATCAGAACATTAACCCAAACCAAATT CAAAAAGAAAATTGGGAAAAATACAAA AACAATGGATTTAAATTAGGAAATTAGA TATAATAAAATAAAATAAAAACAAGCGA TTTCAATGGAAAATCACCTAACCGATTT GAGAGCTTGTAAGGAATGGGTGATTTG TGGTGGTGGTGGTGAGGGAGAGATAAA ACCAATC
1072	Conyza canadensis	PPOX_B40_4	gDNA Contig	526	725	TTGGTTTGGGTTAATGTTCTGATCATCCA TGTATTTTGTTCGTACATTCACAAAAGAA AAAGGTACCGACACATTTAATGATCACT TTTTTAAAGGTACCGTCGCATCATGTGG GTACCCATCTAGCTAGTTGATGAATAAA TTATTAGTATTGTTAAATTTAAGTTTTTT GTTTAATGAGTAATTTAAGAGTATGTTT A
1073	Conyza canadensis	PPOX_B40_4	gDNA Contig	526	725	TAAACATACTCTTAAATTACTCATTAAAC AAAAAACTTAAATTTAACAATACTAATA ATTTATTCATCAACTAGCTAGATGGGTA CCCACATGATGCGACGGTACCTTTAAAA AAGTGATCATTAAATGTGTCGGTACCTT TTTCTTTTGTGAATGTACGAACAAAATAC ATGGATGATCAGAACATTAACCCAAACC AA
1074	Conyza canadensis	PPOX_B40_5	gDNA Contig	701	900	AATGAGTAATTTAAGAGTATGTTTAAAT TTGGGTTAAAAAAAAAAGAAAAAAAAA GTAAATGTGTATTGATTTGTAAGTTGTA ACCGTCTAATATTATAAAAAGAAAAAGA GAAACCACTCCTATATAAAACAGTCAAG

						CCTCTTGTATCATTAACCGGGTTGATTTA AGAGCGAACTTTGATCGAATTTTGGGTT TTCG
1075	Conyza canadensis	PPOX_B40_5	gDNA Contig	701	900	CGAAAACCCAAAATTCGATCAAAGTTCG CTCTTAAATCAACCCGGTTAATGATACA AGAGGCTTGACTGTTTTATATAGGAGTG GTTTCTCTTTTTCTTTTTATAATATTAGAC GGTTACAACTTACAAATCAATACACATTT ACTTTTTTTTTCTTTTTTTTTTAACCCAAA TTTAAACATACTCTTAAATTACTCATT
1076	Conyza canadensis	PPOX_B40_6	gDNA Contig	876	107 5	ACTTTGATCGAATTTTGGGTTTTCGAATT TGCTTTCCATCCACATCGATATCTGCCCA AGTAAGAAACCCTCGTTCCTGTCTCTCTT TAATTTACATCTCCATGTGCTTTTCGATC CTAATTATAAATATGCGGATAACCGCAG CATTACTACCCGACGCCCAAAGGAAGAG GAAAAAGTCGTCGTCAAAGGCAGATCA A
1077	Conyza canadensis	PPOX_B40_6	gDNA Contig	876	107 5	TTGATCTGCCTTTGACGACGACTTTTTCC TCTTCCTTTGGGCGTCGGGTAGTAATGC TGCGGTTATCCGCATATTTATAATTAGG ATCGAAAAGCACATGGAGATGTAAATTA AAGAGAGACAGGAACGAGGGTTTCTTA CTTGGGCAGATATCGATGTGGATGGAA AGCAAATTCGAAAACCCAAAATTCGATC AAAGT
1078	Conyza canadensis	PPOX_B40_7	gDNA Contig	1051	125 0	AAAGTCGTCGTCAAAGGCAGATCAACA AATATTGATATATTGATAATAATGTAATA GAATATGAGAGGCTTCCAGCCAAGTCCG CATGTCGTTTCAAGTCTGTTTCCAAACAC TGGAATTCGTTCCTATCCACACGTATGTT TGGACCACCAGCTCCATCACATGAACAA ATCCTATAAACTTCTCTTACTTGACCAGC T
1079	Conyza canadensis	PPOX_B40_7	gDNA Contig	1051	125 0	AGCTGGTCAAGTAAGAGAAGTTTATAG GATTTGTTCATGTGATGGAGCTGGTGGT CCAAACATACGTGTGGATAGGAACGAA TTCCAGTGTTTGGAAACAGACTTGAAAC GACATGCGGACTTGGCTGGAAGCCTCTC ATATTCTATTACATTATTATCAATATATC AATATTTGTTGATCTGCCTTTGACGACGA CTTT
1080	Conyza canadensis	PPOX_B40_8	gDNA Contig	1226	142 5	ATAAACTTCTCTTACTTGACCAGCTAGCC CCCTGTAGATAAGGATTTATGCAGCAAA CCCCTCAACCACGTACGGTTCCATTACCG TCGGTTTTAATCGACTGGAGGAAGCCGA TCCTAGATTTAATTCGCTTGTAGGATGG

						ATTGGTATGTGTAGCCGATCCTTGATCT ATATTTCAATTTCACTGGCTAGGTGTAG GC
1081	Conyza canadensis	PPOX_B40_8	gDNA Contig	1226	1425	GCCTACACCTAGCCAGTGAAATTGAAAT ATAGATCAAGGATCGGCTACACATACCA ATCCATCCTACAAGCGAATTAAATCTAG GATCGGCTTCCTCCAGTCGATTAAAACC GACGGTAATGGAACCGTACGTGGTTGA GGGGTTTGCTGCATAAATCCTTATCTAC AGGGGGCTAGCTGGTCAAGTAAGAGAA GTTTAT
1082	Conyza canadensis	PPOX_B40_9	gDNA Contig	1401	1600	TCAATTTCACTGGCTAGGTGTAGGCATT ATTATTAAGCAATGTGATCGATTGATGG CTAATTCAGGCGTTTGAATTCAACTTTTC ATTAGTCAAGTAATTATTCTCAAGTTTAT ATATTAATAGTATATATACGATATCATAG TATAATATACAAAATAAAATCTATCCAAA AGGAATAAAATCTTTGGAAAGGAATAA A
1083	Conyza canadensis	PPOX_B40_9	gDNA Contig	1401	1600	TTTATTCCTTTCCAAAGATTTTATTCCTTT TGGATAGATTTTATTTTGTATATTATACT ATGATATCGTATATATACTATTAATATAT AAACTTGAGAATAATTACTTGACTAATG AAAAGTTGAATTCAAACGCCTGAATTAG CCATCAATCGATCACATTGCTTAATAATA ATGCCTACACCTAGCCAGTGAAATTGA
1084	Conyza canadensis	PPOX_B40_10	gDNA Contig	1576	1775	AATAAAATCTTTGGAAAGGAATAAAATC TATCCAAAAAGAATAAAATCTATCCAAA AGGAATAAAATCTTTCTAAAGATTTCGG ACATTCACTATAAATAGTGACAGCAGAT GAGATGGAAAGAAAAAAAGAAAAAAA GGAACAAGAATACTCCTTTGGAGAGAAT ACTTGAACTCTCATCCCTCAAATCATTGT TAACA
1085	Conyza canadensis	PPOX_B40_10	gDNA Contig	1576	1775	TGTTAACAATGATTTGAGGGATGAGAGT TCAAGTATTCTCTCCAAAGGAGTATTCTT GTTCCTTTTTTTCTTTTTTTCTTTCCATCTC ATCTGCTGTCACTATTTATAGTGAATGTC CGAAATCTTTAGAAAGATTTTATTCCTTT TGGATAGATTTTATTCTTTTTGGATAGAT TTTATTCCTTTCCAAAGATTTTATT
1086	Conyza canadensis	PPOX_B40_11	gDNA Contig	1751	1950	CTCATCCCTCAAATCATTGTTAACATAAT CACTACCCTCATAGGATTGGATGGCGTA AAACCGTATACGTAATACGGTTACCAGC AGGGATCGCCACCCAAATATCCTAATCT TCCTCACACCTTCCCATGCTAGGTGGCAT GGGACCCACATAACTCTCTTTATTTATAT

						AATGATATTAGATTACATACTCCTTGAAC
1087	Conyza canadensis	PPOX_B40_11	gDNA Contig	1751	1950	GTTCAAGGAGTATGTAATCTAATATCATTATATAAATAAAGAGAGTTATGTGGGTCCCATGCCACCTAGCATGGGAAGGTGTGAGGAAGATTAGGATATTTGGGTGGCGATCCCTGCTGGTAACCGTATTACGTATACGGTTTTACGCCATCCAATCCTATGAGGGTAGTGATTATGTTAACAATGATTTGAGGGATGAG
1088	Conyza canadensis	PPOX_B40_12	gDNA Contig	1926	2125	ATATTAGATTACATACTCCTTGAACCGTAAGTGTTAATCGACGTATCATCATATATACACTAATATCTATGTTAAATAATTAATAAACAAAATATGACACATAAAATTTTTGCGAGATATTTTTGGCGAAGCATTGCACAAAAAGCAGCAAGGCTAGGATATTTTTGGCCCACAATGTACCGCGATGCAACAAAGATTGT
1089	Conyza canadensis	PPOX_B40_12	gDNA Contig	1926	2125	ACAATCTTTGTTGCATCGCGGTACATTGTGGGCCAAAAATATCCTAGCCTTGCTGCTTTTGTGCAATGCTTCGCCAAAAATATCTCGCAAAAATTTTATGTGTCATATTTTGTTTATTAATTATTTAACATAGATATTAGTGTATATATGATGATACGTCGATTAACACTTACGGTTCAAGGAGTATGTAATCTAATAT
1090	Conyza canadensis	PPOX_B40_13	gDNA Contig	2101	2300	TGTACCGCGATGCAACAAAGATTGTCGACAATTGTGATAATTGCCAATGCCATGCTCCTATCATACGTCAACCCCAACACGACTTGACAAGTATTTCAAGTCCATGGCCGTTCTATCAATGGGGAACAGATATCGTAGGACCATTCCCAGAAGCACCAGGAAAAGTGAAATTTTTGGTAGTCGCAATCGACTATTTTACT
1091	Conyza canadensis	PPOX_B40_13	gDNA Contig	2101	2300	AGTAAAATAGTCGATTGCGACTACCAAAAATTTCACTTTTCCTGGTGCTTCTGGGAATGGTCCTACGATATCTGTTCCCCATTGATAGAACGGCCATGGACTTGAAATACTTGTCAAGTCGTGTTGGGGTTGACGTATGATAGGAGCATGGCATTGGCAATTATCACAATTGTCGACAATCTTTGTTGCATCGCGGTACA
1092	Conyza canadensis	PPOX_B40_14	gDNA Contig	2276	2475	GGTAGTCGCAATCGACTATTTTACTAAATTGGCAGAAGCAGAGCCACTGGCAACAATAACTGGACATAAAATACTCAAGTTCGTATGGCGCAACATTGTATGTCGTTATGGAATTCCAGGAATTATCATCAGTGACAACGGAAAGCAATTCGCAAATAACCCATTTCGGGAGTGGTGTGAAGAGCTTAAAATAA

						GACAAC
1093	Conyza canadensis	PPOX_B40_14	gDNA Contig	2276	2475	GTTGTCTTATTTTAAGCTCTTCACACCAC TCCCGAAATGGGTTATTTGCGAATTGCT TTCCGTTGTCACTGATGATAATTCCTGGA ATTCCATAACGACATACAATGTTGCGCC ATACGAACTTGAGTATTTTATGTCCAGTT ATTGTTGCCAGTGGCTCTGCTTCTGCCAA TTTAGTAAAATAGTCGATTGCGACTACC
1094	Conyza canadensis	PPOX_B37_1	cDNA Contig	1	200	TTAGGTGGAATGCAGACACTTACAAATG CACTGAGCAAAGAAGTTGGACAACATG AACTTAATCTTCAATCCAAGGTGCTTGA AATGTCCTATAGCTGTGATGATAACACT ACTGGGAATTGGTCGATCTATTGTGCTC CAGATCAGAACAAACAATTAAATCAGCA ACCTTTTGATGCTGTGATCATGACTGCCC CACT
1095	Conyza canadensis	PPOX_B37_1	cDNA Contig	1	200	AGTGGGGCAGTCATGATCACAGCATCA AAAGGTTGCTGATTTAATTGTTTGTTCTG ATCTGGAGCACAATAGATCGACCAATTC CCAGTAGTGTTATCATCACAGCTATAGG ACATTTCAAGCACCTTGGATTGAAGATT AAGTTCATGTTGTCCAACTTCTTTGCTCA GTGCATTTGTAAGTGTCTGCATTCCACCT AA
1096	Conyza canadensis	PPOX_B37_2	cDNA Contig	176	375	ATGCTGTGATCATGACTGCCCCACTTGG CAATGTGAAAGAAATGAAGATTACAAA GACAGGAAGTCTGTTCCTGCTCAATTTT ATACCTGAGCTTAGTTATATGCCAGTTTC AGTCATAATCTCTACATTCAAGAAAGAG AATGTGAAGCGGCCCCTTGAGGGATTTG GAATGCTTGTTCCTGCCAAGGAGCAGGA AAAT
1097	Conyza canadensis	PPOX_B37_2	cDNA Contig	176	375	ATTTTCCTGCTCCTTGGCAGGAACAAGC ATTCCAAATCCCTCAAGGGGCCGCTTCA CATTCTCTTTCTTGAATGTAGAGATTATG ACTGAAACTGGCATATAACTAAGCTCAG GTATAAAATTGAGCAGGAACAGACTTCC TGTCTTTGTAATCTTCATTTCTTTCACATT GCCAAGTGGGGCAGTCATGATCACAGC AT
1098	Conyza canadensis	PPOX_B37_3	cDNA Contig	351	550	TGTTCCTGCCAAGGAGCAGGAAAATGG TTTGAAGACGTTAGGCACTCTCTTTTCTT CCATGATGTTTCCAGATCGTGCCCCTGA AGACTTGTATCTTTATACCACCTTTGTTG GGGGAAGTCGAAACAAAGAACTGGCCA ATGCTTCGAGGGATGAGTTGAAGCAGA TAGTAACTTCTGACCTCAGACAGTTGCTT

						GGAG
1099	Conyza canadensis	PPOX_B37_3	cDNA Contig	351	550	CTCCAAGCAACTGTCTGAGGTCAGAAGT TACTATCTGCTTCAACTCATCCCTCGAAG CATTGGCCAGTTCTTTGTTTCGACTTCCC CCAACAAAGGTGGTATAAAGATACAAG TCTTCAGGGGCACGATCTGGAAACATCA TGGAAGAAAAGAGAGTGCCTAACGTCT TCAAACCATTTTCCTGCTCCTTGGCAGGA ACA
1100	Digitaria sanguinalis	PPOX_B54_1	cDNA Contig	1	200	ACCTAATGCCATCTCAAAAAGCTTGGGT AGCAGAGTGAAATTATCATGGAAGCTA ATAAATATCTCAAAGTTGGAGAATAGAG GTTATAATTTGACTTACGAAACACCAAA TGGATTTGCAAGTCTGCAAACTAAAACT GTTGTCATGACTGTTCCTTCCTACGTGGC GAGTGACTTGTTGCGTCCTCTTTCGTCG GAAG
1101	Digitaria sanguinalis	PPOX_B54_1	cDNA Contig	1	200	CTTCCGACGAAAGAGGACGCAACAAGT CACTCGCCACGTAGGAAGGAACAGTCAT GACAACAGTTTTAGTTTGCAGACTTGCA AATCCATTTGGTGTTTCGTAAGTCAAATT ATAACCTCTATTCTCCAACTTTGAGATAT TTATTAGCTTCCATGATAATTTCACTCTG CTACCCAAGCTTTTTGAGATGGCATTAG GT
1102	Digitaria sanguinalis	PPOX_B54_2	cDNA Contig	176	375	TTGTTGCGTCCTCTTTCGTCGGAAGCAG CTGAGGCTTTGTCCAAATTTTATTACCCT CCAGTTGCAGCTGTATCTGTTTCCTATCC AAAAGAGGCGATTCGTGCTGACCGTTTG ATCGATGGTCAACTTAAGGGTTTTGGTC AATTACATCCAAGAAGTCAAGGCGTTGA GACTTTAGGTACCATCTATAGTTCATCCC T
1103	Digitaria sanguinalis	PPOX_B54_2	cDNA Contig	176	375	AGGGATGAACTATAGATGGTACCTAAA GTCTCAACGCCTTGACTTCTTGGATGTAA TTGACCAAAACCCTTAAGTTGACCATCG ATCAAACGGTCAGCACGAATCGCCTCTT TTGGATAGGAAACAGATACAGCTGCAA CTGGAGGGTAATAAAATTTGGACAAAG CCTCAGCTGCTTCCGACGAAAGAGGACG CAACAA
1104	Digitaria sanguinalis	PPOX_B56_1	gDNA Contig	1	200	CTTGCGTCTCACAAAAGGCGCGAGCTGG CCGGCCCGCTACTTTTGTGCTTTGTCTTG TCTCCTTCAGGCTTCAGCAATGGACAAA CATCCCCCTCAAGTAAAGCTTAATAGAA ATCGATTTTGATGAACGAATAACCATCA TTAACGGCATCATGGCCATCGCTTCGAT

						GGGATCAGTTGCTTGCAGAGCCGGCCA AAGT
1105	Digitaria sanguinalis	PPOX_B56_1	gDNA Contig	1	200	ACTTTGGCCGGCTCTGCAAGCAACTGAT CCCATCGAAGCGATGGCCATGATGCCGT TAATGATGGTTATTCGTTCATCAAAATCG ATTTCTATTAAGCTTTACTTGAGGGGGA TGTTTGTCCATTGCTGAAGCCTGAAGGA GACAAGACAAAGCACAAAAGTAGCGGG CCGGCCAGCTCGCGCCTTTTGTGAGACG CAAG
1106	Digitaria sanguinalis	PPOX_B56_2	gDNA Contig	176	375	AGTTGCTTGCAGAGCCGGCCAAAGTGG GCACGTGAGAGCCACGAGGATACGCGA GATGACGACGACCATGGAGGTGGTTTC GAACTTTCGATCGCCGATTTTTATTGCGT CAGTTTCACAGCCAGAGATGCTTGGCCT AGTACGGCTGACGATGAGCGTTTGTTTA GCTCATCTGAAGGAATGTGTTTTGCCTG TTGCCA
1107	Digitaria sanguinalis	PPOX_B56_2	gDNA Contig	176	375	TGGCAACAGGCAAAACACATTCCTTCAG ATGAGCTAAACAAACGCTCATCGTCAGC CGTACTAGGCCAAGCATCTCTGGCTGTG AAACTGACGCAATAAAAATCGGCGATC GAAAGTTCGAAACCACCTCCATGGTCGT CGTCATCTCGCGTATCCTCGTGGCTCTCA CGTGCCCACTTTGGCCGGCTCTGCAAGC AACT
1108	Digitaria sanguinalis	PPOX_B56_3	gDNA Contig	351	550	AAGGAATGTGTTTTGCCTGTTGCCACCA AGATTAGCGTCCTTTTCTTTTATCGAATT CGGGTCACCATTTCCACTATTAATCAAA GATATAGTTTCTATATTTTTTCTCATTAAT CCACAGTACCTTTTATTTCAGTAGTTATT ATTGCATCCATACTTCACCAGTACGGCA CCCTTTGCAATCTCTGCCTACACTCCAT
1109	Digitaria sanguinalis	PPOX_B56_3	gDNA Contig	351	550	ATGGAGTGTAGGCAGAGATTGCAAAGG GTGCCGTACTGGTGAAGTATGGATGCA ATAATAACTACTGAAATAAAAGGTACTG TGGATTAATGAGAAAAAATATAGAAACT ATATCTTTGATTAATAGTGGAAATGGTG ACCCGAATTCGATAAAAGAAAAGGACG CTAATCTTGGTGGCAACAGGCAAAACAC ATTCCTT
1110	Digitaria sanguinalis	PPOX_B56_4	gDNA Contig	526	725	TTTGCAATCTCTGCCTACACTCCATTACC TCGAAGAATAGTGCACTACAGATGCAAT AAACACCCACCTCACCGACTGCTCGTAG GTGCACCAGTACACTACATTTGCTGCTG CATGCTGGTCGCCATCATCCTTCCTGCCT GCAGGAAGCAGCAGGGTGTCTGGGATC

						TGCATCATGCCGGGCGCACAAGAGGAACAGA
1111	Digitaria sanguinalis	PPOX_B56_4	gDNA Contig	526	725	TCTGTTCCTCTTGTGCGCCCGGCATGATGCAGATCCCAGACACCCTGCTGCTTCCTGCAGGCAGGAAGGATGATGGCGACCAGCATGCAGCAGCAAATGTAGTGTACTGGTGCACCTACGAGCAGTCGGTGAGGTGGGTGTTTATTGCATCTGTAGTGCACTATTCTTCGAGGTAATGGAGTGTAGGCAGAGATTGCAAA
1112	Digitaria sanguinalis	PPOX_B56_5	gDNA Contig	701	900	ATGCCGGGCGCACAAGAGGAACAGACGTGCCAATAAAAGGGCTAGCAACGCAACGAGGGGAGGGCCCCTTTTTTTCGTGTTACCTCCCGTCCTGTGCATGAGTTGTCGTGTGTAACAGACGTGCTTGGTGATAAAGCGTAGGTGAAGAAGTGGCCTCCCCTGTGTCCCCTCCCTTCTCAGGAACGTTTCGTCATCTTTTC
1113	Digitaria sanguinalis	PPOX_B56_5	gDNA Contig	701	900	GAAAAGATGACGAAACGTTCCTGAGAAGGGAGGGGACACAGGGGAGGCCACTTCTTCACCTACGCTTTATCACCAAGCACGTCTGTTACACACGACAACTCATGCACAGGACGGGAGGTAACACGAAAAAAAGGGGCCCTCCCCTCGTTGCGTTGCTAGCCCTTTTATTGGCACGTCTGTTCCTCTTGTGCGCCCGGCAT
1114	Digitaria sanguinalis	PPOX_B56_6	gDNA Contig	876	1075	CTCAGGAACGTTTCGTCATCTTTTCACTGAAAACGGGCGCGTGCTAACTGCCGCATCTGTGAGTTGAATGGTTGATTGGAGAGAAATTAGGTGTGCAATCACCACTTGGGCGGCAATCGTGTGCACTTACTTTTGGTTGGGTGTCAGATCAACAACAGGGGTTTCTTGGGGAAATGTTTCCAAATGTACTTCTCAAAATT
1115	Digitaria sanguinalis	PPOX_B56_6	gDNA Contig	876	1075	AATTTTGAGAAGTACATTTGGAAACATTTCCCCAAGAAACCCCTGTTGTTGATCTGACACCCAACCAAAAGTAAGTGCACACGATTGCCGCCCAAGTGGTGATTGCACACCTAATTTCTCTCCAATCAACCATTCAACTCACAGATGCGGCAGTTAGCACGCGCCCGTTTTCAGTGAAAAGATGACGAAACGTTCCTGAG
1116	Digitaria sanguinalis	PPOX_B56_7	gDNA Contig	1051	1250	GTTTCCAAATGTACTTCTCAAAATTACTTCTAGTGTACACATGTTGAATTTCAGTTCAAATTTATTTACAAGAATAATAAACAAAGAAGAAAATTGGCAAACAACATTCATAAAAAATGGAATGAAAAGAGAAATGCATCC

						TTCTTTTGAAGATAAATAGTCAAATGCC ATGTTTGTTTCGTTCACAAACAGAAAAA TGA
1117	Digitaria sanguinalis	PPOX_B56_7	gDNA Contig	1051	1250	TCATTTTTCTGTTTGTGAACGAAACAAAC ATGGCATTTGACTATTTATCTTCAAAAGA AGGATGCATTTCTCTTTTCATTCCATTTTT TATGAATGTTGTTTGCCAATTTTCTTCTTT GTTTATTATTCTTGTAAATAAATTTGAAC TGAAATTCAACATGTGTACACTAGAAGT AATTTTGAGAAGTACATTTGGAAAC
1118	Digitaria sanguinalis	PPOX_B56_8	gDNA Contig	1226	1425	GTTTCGTTCACAAACAGAAAAATGATTT CATGATTGCACCGCAAGAGTGGATGAAT ATATATAGGTCTACAGTTGAACACCAAT TTGGAAGAAAAATTCATGAGGCAGAAG TAAAATCGATTATTTCCTTGAGCTTCCGC ATTGCATCTCCCAAAAGAAAACCATTAA ATACTACTAGCAAGTTCTAGTACAGTCC CTAC
1119	Digitaria sanguinalis	PPOX_B56_8	gDNA Contig	1226	1425	GTAGGGACTGTACTAGAACTTGCTAGTA GTATTTAATGGTTTTCTTTTGGGAGATGC AATGCGGAAGCTCAAGGAAATAATCGA TTTTACTTCTGCCTCATGAATTTTTCTTCC AAATTGGTGTTCAACTGTAGACCTATAT ATATTCATCCACTCTTGCGGTGCAATCAT GAAATCATTTTTCTGTTTGTGAACGAAAC
1120	Digitaria sanguinalis	PPOX_B56_9	gDNA Contig	1401	1600	TAGCAAGTTCTAGTACAGTCCCTACTAAT TAAACATCAGCATAATTATCCTTCTTATA CTCACTCGGGTTTTTTCTTATATGTCGTA TTAGTTTCATCTTAAGTCAAACTTGTCAA AATTTGACCAAGTTTATACAAAAGTATA ACAATAACTATACTACCAAACTTATATG GTATCACAATATATTTCATTAGTAGGGA
1121	Digitaria sanguinalis	PPOX_B56_9	gDNA Contig	1401	1600	TCCCTACTAATGAAATATATTGTGATACC ATATAAGTTTGGTAGTATAGTTATTGTTA TACTTTTGTATAAACTTGGTCAAATTTTG ACAAGTTTGACTTAAGATGAAACTAATA CGACATATAAGAAAAAACCCGAGTGAG TATAAGAAGGATAATTATGCTGATGTTT AATTAGTAGGGACTGTACTAGAACTTGC TA
1122	Digitaria sanguinalis	PPOX_B56_10	gDNA Contig	1576	1775	TCACAATATATTTCATTAGTAGGGACTGT CTCGCCGGTCGGGGAAATTAAACGCCCC CCGATCCGTCACCGTGACCTGCCCTCCTC CCCGCCCGGGCAGATCGGGCCATCGCCT CCATCGGGGCACGGCTAGGTACCTGAA AACGATCGAGCAAAGCGGCCGGTTCGT TTCGTTCGTAGCGAGAGGCATTTGCTGC

						CAGT
1123	Digitaria sanguinalis	PPOX_B56_10	gDNA Contig	1576	1775	ACTGGCAGCAAATGCCTCTCGCTACGAA CGAAACGAACCGGCCGCTTTGCTCGATC GTTTTCAGGTACCTAGCCGTGCCCCGAT GGAGGCGATGGCCCGATCTGCCCGGGC GGGGAGGAGGGCAGGTCACGGTGACG GATCGGGGGGCGTTTAATTTCCCCGACC GGCGAGACAGTCCCTACTAATGAAATAT ATTGTGA
1124	Digitaria sanguinalis	PPOX_B56_11	gDNA Contig	1751	1950	GTAGCGAGAGGCATTTGCTGCCAGTTCC CGGCGCGGGACACGCGCGCGCGAAATG GCGGTGTCGAGAGGGAGGGAGGCGTC GCTTTCGGCGGGCGGGGGCGTGTTCCC TGGCTGTAGCCCGGCGGCGCGGCAGGC CTCGCGCGGGTGTCAATACCGGCCCGGC GGATTAGGTCCCCGTCTTTATGACCGGC GCGCGCGCA
1125	Digitaria sanguinalis	PPOX_B56_11	gDNA Contig	1751	1950	TGCGCGCGCGCCGGTCATAAAGACGGG GACCTAATCCGCCGGGCCGGTATTGACA CCCGCGCGAGGCCTGCCGCGCCGCCGG GCTACAGCCAGGGAACACGCCCCCGCCC GCCGAAAGCGACGCCTCCCTCCCTCTCG ACACCGCCATTTCGCGCGCGCGTGTCCC GCGCCGGGAACTGGCAGCAAATGCCTC TCGCTAC
1126	Digitaria sanguinalis	PPOX_B56_12	gDNA Contig	1926	2125	CGTCTTTATGACCGGCGCGCGCGCACCC TTGCGGTGCCCGTGCGTTGACGACGCTG CCACCGCACGTCCCCCTTCTTCATTCCAT GGCAGGGACGACGACGCTAGCTATAGC TGCACGTACGCGGTCGATCGAGTGGCTA TGGCTTGGTCTCTACTGCACGCCATGCC GCCCGGCCTCCCACCACAATAACTCGTG TGCC
1127	Digitaria sanguinalis	PPOX_B56_12	gDNA Contig	1926	2125	GGCACACGAGTTATTGTGGTGGGAGGC CGGGCGGCATGGCGTGCAGTAGAGACC AAGCCATAGCCACTCGATCGACCGCGTA CGTGCAGCTATAGCTAGCGTCGTCGTCC CTGCCATGGAATGAAGAAGGGGGACGT GCGGTGGCAGCGTCGTCAACGCACGGG CACCGCAAGGGTGCGCGCGCGCCGGTC ATAAAGACG
1128	Digitaria sanguinalis	PPOX_B56_13	gDNA Contig	2101	2300	CTCCCACCACAATAACTCGTGTGCCGGC CCGGCACGGCGCGGGCCGTGGTGGAAC TGATCGCGTCGCGCATTGATCATCATGC GTGGGGGCGTCGGGGCGACGGCTCGA GCGTGCGCACATGATTGTGCGTGTCAGG ATCCCAGACGCTAGCTACAGCTTGCTGC

						TGGTCCATCCAGTGCCCTACGTGGACGC CGATCGC
1129	Digitaria sanguinalis	PPOX_B56_13	gDNA Contig	2101	2300	GCGATCGGCGTCCACGTAGGGCACTGG ATGGACCAGCAGCAAGCTGTAGCTAGC GTCTGGGATCCTGACACGCACAATCATG TGCGCACGCTCGAGCCGTCGCCCCGACG CCCCCACGCATGATGATCAATGCGCGAC GCGATCAGTTCCACCACGGCCCGCGCCG TGCCGGGCCGGCACACGAGTTATTGTG GTGGGAG
1130	Digitaria sanguinalis	PPOX_B56_14	gDNA Contig	2276	2475	AGTGCCCTACGTGGACGCCGATCGCTGT GTGTTGGTGTGTGGGGTGATGATGATG GCGGATGGATGGAGTCATGGAGGCACT GCGGGGCTCACAGGAGATTTTGGTGGG TGGTGGACGCATCCGTCGCGTCGCCCCC GGCGCTCGAGTGCACCCCGTACCAACCC AACACGTCCGCTGTCGTGGAGACGCCG GAGGGCGC
1131	Digitaria sanguinalis	PPOX_B56_14	gDNA Contig	2276	2475	GCGCCCTCCGGCGTCTCCACGACAGCGG ACGTGTTGGGTTGGTACGGGGTGCACTC GAGCGCCGGGGGCGACGCGACGGATG CGTCCACCACCCACCAAAATCTCCTGTG AGCCCCGCAGTGCCTCCATGACTCCATC CATCCGCCATCATCATCACCCCACACACC AACACACAGCGATCGGCGTCCACGTAG GGCACT
1132	Digitaria sanguinalis	PPOX_B56_15	gDNA Contig	2451	2650	CTGTCGTGGAGACGCCGGAGGGCGCAT GAAATCATTGTTAATTTTCTCTTGTGTGT TTTTTTTAAAAAAATTATAATAACAAAAG ATGCATGCTCCCTTCTTCTTTGATTAACT AATCGATCAGCTAGCTAACTCACACATT GTCCTTCCTGCAAGTAGCGCATGTATATT TATGCTCAACTATATGGGTATATACTTTT
1133	Digitaria sanguinalis	PPOX_B56_15	gDNA Contig	2451	2650	AAAAGTATATACCCATATAGTTGAGCAT AAATATACATGCGCTACTTGCAGGAAGG ACAATGTGTGAGTTAGCTAGCTGATCGA TTAGTTAATCAAAGAAGAAGGGAGCAT GCATCTTTTGTTATTATAATTTTTTTAAAA AAAACACACAAGAGAAAATTAACAATG ATTTCATGCGCCCTCCGGCGTCTCCACG ACAG
1134	Digitaria sanguinalis	PPOX_B53_1	cDNA Contig	1	200	GACATCCTGCGTCCACTTTCAAGTGATG CTGCAGATGCCCTTTCAAGATTCTATTAT CCACCAGTTGGTGCTGTGACTATTTCATA TCCAAAGGAAGCAATTAGAAAGGAATG CTTGATTGATGGGGAGCTCCAGGGTTTT GGCCAGTTGCATCCACGTAGTCAAGGA

						GTTGAGACATTAGGAACAATATACAGCT CATC
1135	Digitaria sanguinalis	PPOX_B53_1	cDNA Contig	1	200	GATGAGCTGTATATTGTTCCTAATGTCTC AACTCCTTGACTACGTGGATGCAACTGG CCAAAACCCTGGAGCTCCCCATCAATCA AGCATTCCTTTCTAATTGCTTCCTTTGGA TATGAAATAGTCACAGCACCAACTGGTG GATAATAGAATCTTGAAAGGGCATCTGC AGCATCACTTGAAAGTGGACGCAGGAT GTC
1136	Digitaria sanguinalis	PPOX_B53_2	cDNA Contig	176	375	CATTAGGAACAATATACAGCTCATCACT CTTCCCAAATCGTGCTCCTGCTGGAAGG GTATTACTTCTAAACTATATAGGAGGTG CTACAAACACTGGGATTGTCTCCAAGAG TGAAAGTGAGCTGGTAGAAGCAGTTGA CCGTGACCTTAGGAAAATGCTCATCAAC CCTAGAGCAGTGGACCCTTTAGTCCTTG GTGTC
1137	Digitaria sanguinalis	PPOX_B53_2	cDNA Contig	176	375	GACACCAAGGACTAAAGGGTCCACTGCT CTAGGGTTGATGAGCATTTTCCTAAGGT CACGGTCAACTGCTTCTACCAGCTCACTT TCACTCTTGGAGACAATCCCAGTGTTTGT AGCACCTCCTATATAGTTTAGAAGTAAT ACCCTTCCAGCAGGAGCACGATTTGGGA AGAGTGATGAGCTGTATATTGTTCCTAA TG
1138	Digitaria sanguinalis	PPOX_B53_3	cDNA Contig	351	550	AGTGGACCCTTTAGTCCTTGGTGTCCGA GTGTGGCCACAAGCCATACCTCAGTTCC TGGTAGGACATCTTGATCTTCTGGAGGT TGCAAAATCTGCCTTGGGCCGAGGTGGC TATGATGGGCTCTTCCTAGGAGGGAATT ATGTAGCAGGAGTTGCCCTGGGCCGAT GCGTGGAGGGTGCCTATGAAAGCGCCT CGCAAA
1139	Digitaria sanguinalis	PPOX_B53_3	cDNA Contig	351	550	TTTGCGAGGCGCTTTCATAGGCACCCTC CACGCATCGGCCCAGGGCAACTCCTGCT ACATAATTCCCTCCTAGGAAGAGCCCAT CATAGCCACCTCGGCCCAAGGCAGATTT TGCAACCTCCAGAAGATCAAGATGTCCT ACCAGGAACTGAGGTATGGCTTGTGGC CACACTCGGACACCAAGGACTAAAGGG TCCACT
1140	Digitaria sanguinalis	PPOX_B53_4	cDNA Contig	526	725	GGTGCCTATGAAAGCGCCTCGCAAATAT CTGACTTCTTGACCAAGTATGCCTACAA GTGATGAAAGAAGTCGAGCTGCTCGTT GTTTTGCATAGATGAGGTGAGACCAGG AGTGGCACAAAGTTTACAAGGATTTTTT

						TTTTCATCTTATTTCGTAAATTGTACTTCT GATCTTTTTCCCTGTTAGTAATTAGTTAG ACT
1141	Digitaria sanguinalis	PPOX_B53_4	cDNA Contig	526	725	AGTCTAACTAATTACTAACAGGGAAAAA GATCAGAAGTACAATTTACGAAATAAGA TGAAAAAAAAAATCCTTGTAAACTTTGT GCCACTCCTGGTCTCACCTCATCTATGCA AAACAACGAGCAGCTCGACTTCTTTCAT CACTTGTAGGCATACTTGGTCAAGAAGT CAGATATTTGCGAGGCGCTTTCATAGGC ACC
1142	Digitaria sanguinalis	PPOX_B57_1	gDNA Contig	1	200	TAGGTATTTCTTTCAACTGAGTCTTAAGC TACAACATCTACAGATTATTGTTTTTCTTT TGTGGTGTGATTTTTCATTCTAGTATGTA TTATGTCTTCTTTTGTTGAATCCAAGATA TGAATCAAAATAGTGGTGGTATGCTTTT GTAGGAACAATATACAGCTCATCACTCT TCCCAAATCGTGCTCCTGCTGGAAGGG
1143	Digitaria sanguinalis	PPOX_B57_1	gDNA Contig	1	200	CCCTTCCAGCAGGAGCACGATTTGGGAA GAGTGATGAGCTGTATATTGTTCCTACA AAAGCATACCACCACTATTTTGATTCATA TCTTGGATTCAACAAAAGAAGACATAAT ACATACTAGAATGAAAAATCACACCACA AAAGAAAAACAATAATCTGTAGATGTTG TAGCTTAAGACTCAGTTGAAAGAAATAC CTA
1144	Digitaria sanguinalis	PPOX_B57_2	gDNA Contig	176	375	CCAAATCGTGCTCCTGCTGGAAGGGTGT TACTTCTAAACTATATAGGAGGTGCTAC AAACACTGGAATTGTTTCCAAGGTTAGT AATTCTCTGTCGAACTTATTGCCTTGAGT TTTGTGTTCATGATGTTTTGACTGTAAAA AGAAAATTGGCATTCTTTAATAATCAAC GTAAGCAGTATTTTAAAAAGAAAGTTGG CA
1145	Digitaria sanguinalis	PPOX_B57_2	gDNA Contig	176	375	TGCCAACTTTCTTTTTAAAATACTGCTTA CGTTGATTATTAAAGAATGCCAATTTTCT TTTTACAGTCAAAACATCATGAACACAA AACTCAAGGCAATAAGTTCGACAGAGA ATTACTAACCTTGGAAACAATTCCAGTG TTTGTAGCACCTCCTATATAGTTTAGAAG TAACACCCTTCCAGCAGGAGCACGATTT GG
1146	Digitaria sanguinalis	PPOX_B57_3	gDNA Contig	351	550	CAGTATTTTAAAAAGAAAGTTGGCATTT TAATAATCAATATCAACTTGTAACTAGAT TGCTTATTATTGGCTATTATTATTTAGGT GGGACCCGCAGACTATTTAGGTGTGGA ACCCATGTGGGACCCGCATACTATTTAG

						GCGGGACCCACGCATATTCAGACACACT ATTTAGAGTGGAACCTACAATAATGTTA AGC
1147	Digitaria sanguinalis	PPOX_B57_3	gDNA Contig	351	550	GCTTAACATTATTGTAGGTTCCACTCTAA ATAGTGTGTCTGAATATGCGTGGGTCCC GCCTAAATAGTATGCGGGTCCCACATGG GTTCCACACCTAAATAGTCTGCGGGTCC CACCTAAATAATAATAGCCAATAATAAG CAATCTAGTTACAAGTTGATATTGATTAT TAAAATGCCAACTTTCTTTTTAAAATACT G
1148	Digitaria sanguinalis	PPOX_B57_4	gDNA Contig	526	725	AGTGGAACCTACAATAATGTTAAGCGTC TACGTTATTTAAAAAATTATTGATAATTG TTTTCATTCTTTGCAGTATAAAATATATTT ATTTTTTTCTATGTATAAAAATAATCTCT AACTTTGTATACTACATTCGTTTGTGATA GTTCTAATACTTTTTGTACTTTGCTTTCAT TTCATAAATTTGAAAAATAAGATTG
1149	Digitaria sanguinalis	PPOX_B57_4	gDNA Contig	526	725	CAATCTTATTTTTCAAATTTATGAAATGA AAGCAAAGTACAAAAAGTATTAGAACTA TCACAAACGAATGTAGTATACAAAGTTA GAGATTATTTTTATACATAGAAAAAAAT AAATATATTTTATACTGCAAAGAATGAA AACAATTATCAATAATTTTTTAAATAACG TAGACGCTTAACATTATTGTAGGTTCCAC T
1150	Digitaria sanguinalis	PPOX_B57_5	gDNA Contig	701	900	TTCATAAATTTGAAAAATAAGATTGAAT TATACATTCGTTACAAAATGTATCTTTTT TCTATTAAAAATTAAAAATTAGTGTAAC ATAACACGTCACTCCATTAGCTATTTCTA CTACCACTTATATAGTGCTTAAATGATTA TTATGATTAAAAAATTTGTCTAAATTTAA TATTGCATTGAGTATAGTAAGATAACAA
1151	Digitaria sanguinalis	PPOX_B57_5	gDNA Contig	701	900	TTGTTATCTTACTATACTCAATGCAATAT TAAATTTAGACAAATTTTTTAATCATAAT AATCATTTAAGCACTATATAAGTGGTAG TAGAAATAGCTAATGGAGTGACGTGTTA TGTTACACTAATTTTTAATTTTTAATAGA AAAAAGATACATTTTGTAACGAATGTAT AATTCAATCTTATTTTTCAAATTTATGAA
1152	Digitaria sanguinalis	PPOX_B57_6	gDNA Contig	876	1075	TGCATTGAGTATAGTAAGATAACAAATT TGTATTACATCATTATTTTAGTTTAACAT CTTCTATATAGACGCACATCGCTCGTCAA CCCAACTAGTATTCCTAATGATGCCATCT CAATTGCAGAGTGAAAGTGAGCTGGTA GAAGCAGTTGATCGTGACCTCAGGAAA ATGCTCATCGACCCTAGAGCAGTGGACC

						CTT
1153	Digitaria sanguinalis	PPOX_B57_6	gDNA Contig	876	1075	AAGGGTCCACTGCTCTAGGGTCGATGA GCATTTTCCTGAGGTCACGATCAACTGC TTCTACCAGCTCACTTTCACTCTGCAATT GAGATGGCATCATTAGGAATACTAGTTG GGTTGACGAGCGATGTGCGTCTATATAG AAGATGTTAAACTAAAATAATGATGTAA TACAAATTTGTTATCTTACTATACTCAAT GCA
1154	Digitaria sanguinalis	PPOX_B55_1	cDNA Contig	1	200	TGGAGGATTCTTTCAACGTCATTTTGGG AAGGAGGTTGTTGAGTATCTCATTGATC CAGTTGTTGCGGGAACAAGCGGTGGAG ATCCTGAATCACTTTCAATGCGTTATGCG TTTCCTGAGTTATGGGATTTAGAGAGAA GGTTCGGTTCAATCATTTCTGGGGCATT TCTGTCAATGTTATCTTCCAGAGGTGGG AAAA
1155	Digitaria sanguinalis	PPOX_B55_1	cDNA Contig	1	200	TTTTCCCACCTCTGGAAGATAACATTGAC AGAAATGCCCCAGAAATGATTGAACCG AACCTTCTCTCTAAATCCCATAACTCAGG AAACGCATAACGCATTGAAAGTGATTCA GGATCTCCACCGCTTGTTCCCGCAACAA CTGGATCAATGAGATACTCAACAACCTC CTTCCCAAAATGACGTTGAAAGAATCCT CCA
1156	Digitaria sanguinalis	PPOX_B55_2	cDNA Contig	176	375	ATGTTATCTTCCAGAGGTGGGAAAAGG AAACCTTCTGGAAACAGCAAACGTAGGC GTGGTTCTTTTTCTTTTTTGGGTGGGATG CAGACGCTCACTGATGCACTATGCAAAG AGATTGGACCCCATGAATTTAATCTCCA ATCAAAGGTTCTTGAAATGTCCTACAGC TGCGATGATAACGTGGTTGGTAATTGGT CAAT
1157	Digitaria sanguinalis	PPOX_B55_2	cDNA Contig	176	375	ATTGACCAATTACCAACCACGTTATCATC GCAGCTGTAGGACATTTCAAGAACCTTT GATTGGAGATTAAATTCATGGGGTCCAA TCTCTTTGCATAGTGCATCAGTGAGCGT CTGCATCCCACCCAAAAAAGAAAAAGAA CCACGCCTACGTTTGCTGTTTCCAGAAG GTTTCCTTTTCCCACCTCTGGAAGATAAC AT
1158	Euphorbia heterophylla	PPOX_B47_1	gDNA Contig	1	121	AACCGAACCGAATTTTCAGAGTAACCAA ACCAAATTAATAACTCAGTCTGATTCGAT TCGGAAATGCGGTTACCAAAACCATTTG CACACCCATATTTTACACTAATAAATTTT TAAATTT
1159	Euphorbia	PPOX_B47_1	gDNA	1	121	AAATTTAAAAATTTATTAGTGTAAAATAT

	heterophylla		Contig			GGGTGTGCAAATGGTTTTGGTAACCGCA TTTCCGAATCGAATCAGACTGAGTTATT AATTTGGTTTGGTTACTCTGAAAATTCG GTTCGGTT
1160	Euphorbia heterophylla	PPOX_B42_1	cDNA Contig	1	200	ACAGGTTGTGCATTCCACCCAGAAACGT CAGCGTGGTTCATTTTCGTTTCTGGGTG GAATGCAGACTCTTCCTGACAGGTTGTG CAAAGAGCTTGCAAAAGACGAGCTTAG ACTTGAGTCAAAGGTTTTGTCTTTGTCTT ATAATCACGATTCTAGATCGGCGTTAGA CAATTGGTCTGTCTCTTTTGCTTCTAAGG GCA
1161	Euphorbia heterophylla	PPOX_B42_1	cDNA Contig	1	200	TGCCCTTAGAAGCAAAAGAGACAGACC AATTGTCTAACGCCGATCTAGAATCGTG ATTATAAGACAAAGACAAAACCTTTGAC TCAAGTCTAAGCTCGTCTTTTGCAAGCTC TTTGCACAACCTGTCAGGAAGAGTCTGC ATTCCACCCAGAAACGAAAATGAACCAC GCTGACGTTTCTGGGTGGAATGCACAAC CTGT
1162	Euphorbia heterophylla	PPOX_B42_2	cDNA Contig	176	375	TCTGTCTCTTTTGCTTCTAAGGGCAACAA ACGTATGCAAGACTCGTCATATGATGCC GTCATTATGACGGCACCACTTTGCAACC TCAAAGAAATGAGGATCACAAAAGGCA GAAATCACTTCCTGTTGGACTTTATTCCC GAGGTAATTTATATGCCACTGTCGGTCA TTATTACGACGTTCAAGAAGGAGAATGT CAA
1163	Euphorbia heterophylla	PPOX_B42_2	cDNA Contig	176	375	TTGACATTCTCCTTCTTGAACGTCGTAAT AATGACCGACAGTGGCATATAAATTACC TCGGGAATAAAGTCCAACAGGAAGTGA TTTCTGCCTTTTGTGATCCTCATTTCTTTG AGGTTGCAAAGTGGTGCCGTCATAATGA CGGCATCATATGACGAGTCTTGCATACG TTTGTTGCCCTTAGAAGCAAAAGAGACA GA
1164	Euphorbia heterophylla	PPOX_B46_1	gDNA Contig	1	200	ACTTTTTTACATGTTCAGGGGGTTATTTG AAACATTTGAAAGTTCAAGGGGTAACTA GCCCTTTTTGAACAAGTTCAGGGGTTTTC ATGTATTAGGCCTCTATTTAATATTGGAT GCTCCAATTGGACACCTGAGCTTTATGTT GTCATAATTAGTAGTAGATATAGCTTTCT TTTAATTTTCACGTGTTTTTTTCGTGT
1165	Euphorbia heterophylla	PPOX_B46_1	gDNA Contig	1	200	ACACGAAAAAAACACGTGAAAATTAAA AGAAAGCTATATCTACTACTAATTATGA CAACATAAAGCTCAGGTGTCCAATTGGA GCATCCAATATTAAATAGAGGCCTAATA

						CATGAAAACCCCTGAACTTGTTCAAAAA GGGCTAGTTACCCCTTGAACTTTCAAAT GTTTCAAATAACCCCCTGAACATGTAAA AAAGT
1166	Euphorbia heterophylla	PPOX_B46_2	gDNA Contig	176	375	TAATTTTCACGTGTTTTTTTCGTGTAAAT AGAAAGACAGCGAACTTGTTGAAGCAG TTGACCGTGATCTGCGAAAGATGCTCAT AAATCCCAATGCAAAGGATCCACTTACA CTTGGCGTAAGAGTGTGGCCTCAAGCCA TTCCACAGTTTCTGATTGGTCACTACGAT ATCCTAGATACGGCGAAAAATGCGTTAA GTG
1167	Euphorbia heterophylla	PPOX_B46_2	gDNA Contig	176	375	CACTTAACGCATTTTTCGCCGTATCTAGG ATATCGTAGTGACCAATCAGAAACTGTG GAATGGCTTGAGGCCACACTCTTACGCC AAGTGTAAGTGGATCCTTTGCATTGGGA TTTATGAGCATCTTTCGCAGATCACGGTC AACTGCTTCAACAAGTTCGCTGTCTTTCT ATTTACACGAAAAAAACACGTGAAAATT A
1168	Euphorbia heterophylla	PPOX_B46_3	gDNA Contig	351	550	GATACGGCGAAAAATGCGTTAAGTGAA CAAGGCTTGGAAGGGCTGTTTTTAGGG GGTAACTATGTGTATGGTGTAGCTTTGG GAAAATGTGTTGAAGGAGCATATGAAA CTGCGTCCAGTGTTACTAATTTCCTAACC CAGTATACTTATAAATAGTATCTGATGA GATTTAAGCAAGAGTTCAATTATGCTGC GGCTAA
1169	Euphorbia heterophylla	PPOX_B46_3	gDNA Contig	351	550	TTAGCCGCAGCATAATTGAACTCTTGCTT AAATCTCATCAGATACTATTTATAAGTAT ACTGGGTTAGGAAATTAGTAACACTGGA CGCAGTTTCATATGCTCCTTCAACACATT TTCCCAAAGCTACACCATACACATAGTTA CCCCCTAAAAACAGCCCTTCCAAGCCTT GTTCACTTAACGCATTTTTCGCCGTATC
1170	Euphorbia heterophylla	PPOX_B46_4	gDNA Contig	526	725	AAGAGTTCAATTATGCTGCGGCTAAGTA CTGTGAGTTTATTGAGTAGTGGGTAAAA ATGTTGCTTTAGGTCTGTTGTATTTGTAA TAGTTGCTTCACGTTTTTCATTAAGGATG GTGTATTCTCTAGTTATGCATTCTTGTTC ATTTAGCAGGCAAAACGAGTTTGATGTG CATTCAGAATATGTTGGCAGTTGATTGA C
1171	Euphorbia heterophylla	PPOX_B46_4	gDNA Contig	526	725	GTCAATCAACTGCCAACATATTCTGAAT GCACATCAAACTCGTTTTGCCTGCTAAAT GAACAAGAATGCATAACTAGAGAATAC ACCATCCTTAATGAAAAACGTGAAGCAA

						CTATTACAAATACAACAGACCTAAAGCA ACATTTTTACCCACTACTCAATAAACTCA CAGTACTTAGCCGCAGCATAATTGAACT CTT
1172	Euphorbia heterophylla	PPOX_B45_1	gDNA Contig	1	200	AGATTAGTGAATGATCACAACAAATACC GTTTGATAAGTCCAATTTTTTCTTTTTTTG CAAGATTTGGTTCTATTATAGCTGGGGC AATTCAGTCAAATTTTTCCTCGAAAAAG GATAAGAGCAAGGAGACAAATTCATCA AGACATAAGAAACGTCAGCGTGGTTCAT TTTCGTTTCTGGGTGGAATGCAGGTATT AGA
1173	Euphorbia heterophylla	PPOX_B45_1	gDNA Contig	1	200	TCTAATACCTGCATTCCACCCAGAAACG AAAATGAACCACGCTGACGTTTCTTATG TCTTGATGAATTTGTCTCCTTGCTCTTAT CCTTTTTCGAGGAAAAATTTGACTGAATT GCCCCAGCTATAATAGAACCAAATCTTG CAAAAAAAGAAAAAATTGGACTTATCAA ACGGTATTTGTTGTGATCATTCACTAATC T
1174	Euphorbia heterophylla	PPOX_B45_2	gDNA Contig	176	375	TTCTGGGTGGAATGCAGGTATTAGATGT AGGATATTACTTATGAACTCTGAAATTT GTATCTAATATCACTTTTCTTAAAGCCCC TAAATGATTTTAATATTAGGATTTTCTTT TTGTATCTAGCTTTATTATTTGCTCGATTT TACTCGTTAAAGCTATGTTTATTTGTTGA GAAGCCTTCTAGAGGCGATACAGATTT
1175	Euphorbia heterophylla	PPOX_B45_2	gDNA Contig	176	375	AAATCTGTATCGCCTCTAGAAGGCTTCTC AACAAATAAACATAGCTTTAACGAGTAA AATCGAGCAAATAATAAAGCTAGATACA AAAAGAAAATCCTAATATTAAAATCATT TAGGGGCTTTAAGAAAAGTGATATTAGA TACAAATTTCAGAGTTCATAAGTAATATC CTACATCTAATACCTGCATTCCACCCAGA A
1176	Euphorbia heterophylla	PPOX_B45_3	gDNA Contig	351	550	AGCCTTCTAGAGGCGATACAGATTTTCT TAGCTTATGCAAGTGATTATCCTATGAA CTATTTATGTTTTCTTTTCCCGAATCTATT TTTCTTTGCAGACTCTTCCTGACAGGTTG TGCAAAGAGCTTGCTAAAGACGAGCTTA GACTTGGGTCAAAGGTTTTGTCTTTGTCT TATAATCACGATTCTAGATCGGCGTTAG
1177	Euphorbia heterophylla	PPOX_B45_3	gDNA Contig	351	550	CTAACGCCGATCTAGAATCGTGATTATA AGACAAAGACAAAACCTTTGACCCAAGT CTAAGCTCGTCTTTAGCAAGCTCTTTGCA CAACCTGTCAGGAAGAGTCTGCAAAGA AAAATAGATTCGGGAAAAGAAAACATA

						AATAGTTCATAGGATAATCACTTGCATA AGCTAAGAAAATCTGTATCGCCTCTAGA AGGCT
1178	Euphorbia heterophylla	PPOX_B45_4	gDNA Contig	526	725	AATCACGATTCTAGATCGGCGTTAGACA ATTGGTCTGTCTCTTTTGCTTCTAAGGGC GACAAACGTATGCAAAACTCGTCATATG ATGCTGTCATTATGACGGTTAGCAACTT CTTTACTGATGATATAATGTTTATCAATT AATCTTTTTGATATCGAAACGAAACAATT TCATTGTTTACTCAGATTCATTATCACTT
1179	Euphorbia heterophylla	PPOX_B45_4	gDNA Contig	526	725	AAGTGATAATGAATCTGAGTAAACAATG AAATTGTTTCGTTTCGATATCAAAAAGAT TAATTGATAAACATTATATCATCAGTAAA GAAGTTGCTAACCGTCATAATGACAGCA TCATATGACGAGTTTTGCATACGTTTGTC GCCCTTAGAAGCAAAAGAGACAGACCA ATTGTCTAACGCCGATCTAGAATCGTGA TT
1180	Euphorbia heterophylla	PPOX_B45_5	gDNA Contig	701	900	TGTTTACTCAGATTCATTATCACTTCTAA AATTTCAGGCACCACTTTGCAACCTCAA AGAAATGAGGATCACAAAAGGCAGAAA TCACTTCCCGTTGGACTTTATTCCCGAGG TACCCTTCTTGCAAATCTATTGACAAGAA TGGATGTCAATAATTCAACCGAAACCAT ATGAACTATTGCAGGTAATTTATATGCC AC
1181	Euphorbia heterophylla	PPOX_B45_5	gDNA Contig	701	900	GTGGCATATAAATTACCTGCAATAGTTC ATATGGTTTCGGTTGAATTATTGACATCC ATTCTTGTCAATAGATTTGCAAGAAGGG TACCTCGGGAATAAAGTCCAACGGGAA GTGATTTCTGCCTTTTGTGATCCTCATTT CTTTGAGGTTGCAAAGTGGTGCCTGAAA TTTTAGAAGTGATAATGAATCTGAGTAA ACA
1182	Euphorbia heterophylla	PPOX_B41_1	cDNA Contig	1	200	ATTGCGTGATTGTAGGAGGTGGAATCAC TGGTCTCTGCATTGCTCAGGCACTTGCC ACTAAGCACCGGAATGTTGCTCCCAACG TTATTGTCACCGAGGCTAGAGATCGCGT CGGTGGCAACATCAACACCGTTGAAAG GGACGGCTATCTCTGGGAAGAGGGGCC TAACAGTTTCCAGCCCTCCGATCCTATGC TAACC
1183	Euphorbia heterophylla	PPOX_B41_1	cDNA Contig	1	200	GGTTAGCATAGGATCGGAGGGCTGGAA ACTGTTAGGCCCCTCTTCCCAGAGATAG CCGTCCCTTTCAACGGTGTTGATGTTGCC ACCGACGCGATCTCTAGCCTCGGTGACA ATAACGTTGGGAGCAACATTCCGGTGCT

						TAGTGGCAAGTGCCTGAGCAATGCAGA GACCAGTGATTCCACCTCCTACAATCAC GCAAT
1184	Euphorbia heterophylla	PPOX_B41_2	cDNA Contig	176	375	CCAGCCCTCCGATCCTATGCTAACCATG GCGGTGGATAGTGGTTTGAAGGATGAC CTAGTTTTGGGGGATCCTACAGCGCCAC GGTTTGTATTGTGGGATGGGCAATTGAG GCCAGTTCCTTCTAAGCCAAGTGACTTG CCGTTCTTTGATTTGATGAGCATTGGTG GAAAACTCAGAGCTGGTTTTGGTGCTCT TGGAC
1185	Euphorbia heterophylla	PPOX_B41_2	cDNA Contig	176	375	GTCCAAGAGCACCAAAACCAGCTCTGAG TTTTCCACCAATGCTCATCAAATCAAAGA ACGGCAAGTCACTTGGCTTAGAAGGAA CTGGCCTCAATTGCCCATCCCACAATACA AACCGTGGCGCTGTAGGATCCCCCAAAA CTAGGTCATCCTTCAAACCACTATCCACC GCCATGGTTAGCATAGGATCGGAGGGC TGG
1186	Euphorbia heterophylla	PPOX_B41_3	cDNA Contig	351	550	AGAGCTGGTTTTGGTGCTCTTGGACTTC GGCCTCCACCTCCAGGACGTGAGGAATC AGTTGAAGAGTTTGTGCGCCGCAACCTT GGAGATGAAGTTTTCGAGCGTTTGATTG AGCCATTTTGTTCAGGTGTTTATGCAGG TGATCCTGCAAAACTCAGCATGAAAGCA GCATTCGGAAAAGTTTGGATGCTGGAAC AAAA
1187	Euphorbia heterophylla	PPOX_B41_3	cDNA Contig	351	550	TTTTGTTCCAGCATCCAAACTTTTCCGAA TGCTGCTTTCATGCTGAGTTTTGCAGGA TCACCTGCATAAACACCTGAACAAAATG GCTCAATCAAACGCTCGAAAACTTCATC TCCAAGGTTGCGGCGCACAAACTCTTCA ACTGATTCCTCACGTCCTGGAGGTGGAG GCCGAAGTCCAAGAGCACCAAAACCAG CTCT
1188	Euphorbia heterophylla	PPOX_B41_4	cDNA Contig	526	725	GAAAAGTTTGGATGCTGGAACAAAATG GAGGCAGTATCATTGGTGGCACTTTTAA AGCAATCCAGGAAAGGAATAAAAATCC CAAGCCTCCTCGAGACCCGCGTCTACCA AAACCAAAGGGCCAAACAGTAGGGTCT TTTAGGAAGGGACTGACTATGCTTCCAG AGGCAATTGCATCAAGTTTGGGTAGTAA TATCAAG
1189	Euphorbia heterophylla	PPOX_B41_4	cDNA Contig	526	725	CTTGATATTACTACCCAAACTTGATGCAA TTGCCTCTGGAAGCATAGTCAGTCCCTTC CTAAAAGACCCTACTGTTTGGCCCTTTG GTTTTGGTAGACGCGGGTCTCGAGGAG

						GCTTGGGATTTTTATTCCTTTCCTGGATT GCTTTAAAAGTGCCACCAATGATACTGC CTCCATTTTGTTCCAGCATCCAAACTTTT C
1190	Euphorbia heterophylla	PPOX_B41_5	cDNA Contig	701	900	ATCAAGTTTGGGTAGTAATATCAAGTTA TCTTGGAAGCTTCTGGGTATCTCTAAATT GGACAATCGGGAGTACAGTTTAACATAT GAAACACCTGAAGGATCAGTTACTGTGC AGAGCAAGAGTGTCGTACTTACAATTCC ATCCCATATTGCCAGCAATATCCTGAATC CTCTTTCTACAACTGCTGCTGAGGCACTG T
1191	Euphorbia heterophylla	PPOX_B41_5	cDNA Contig	701	900	ACAGTGCCTCAGCAGCAGTTGTAGAAA GAGGATTCAGGATATTGCTGGCAATATG GGATGGAATTGTAAGTACGACACTCTTG CTCTGCACAGTAACTGATCCTTCAGGTG TTTCATATGTTAAACTGTACTCCCGATTG TCCAATTTAGAGATACCCAGAAGCTTCC AAGATAACTTGATATTACTACCCAAACTT GAT
1192	Euphorbia heterophylla	PPOX_B41_6	cDNA Contig	876	1075	TCTACAACTGCTGCTGAGGCACTGTCAA AATTTTATTACCCACCAGTAGCTGCTGTG TCTATTTCATACCCGAAAGATGCAATTCG GACAGAACGTTTAATAGATGGCGAGCTT AAGGGATTTGGTCAGTTGCATCCTCGTA GTCAAGGAGTGGAAACTTTAGGAACCA TATACAGCTCATCACTTTTCCCTAACCGA GC
1193	Euphorbia heterophylla	PPOX_B41_6	cDNA Contig	876	1075	GCTCGGTTAGGGAAAAGTGATGAGCTG TATATGGTTCCTAAAGTTTCCACTCCTTG ACTACGAGGATGCAACTGACCAAATCCC TTAAGCTCGCCATCTATTAAACGTTCTGT CCGAATTGCATCTTTCGGGTATGAAATA GACACAGCAGCTACTGGTGGGTAATAA AATTTTGACAGTGCCTCAGCAGCAGTTG TAGA
1194	Euphorbia heterophylla	PPOX_B41_7	cDNA Contig	1051	1250	GCTCATCACTTTTCCCTAACCGAGCACCA GATGGAAGAATTTTGCTCTTGAATTACA TTGGGGGTGCTACCAATCCTGGAATATT GGCCAAGAAAGACAGCGAACTTGTTGA AGCAGTTGACCGTGATCTGCGAAAGAT GCTCATAAATCCCAATGCAAAGGATCCA CTTACACTTGGCGTAAGAGTGTGGCCTC AAGCC
1195	Euphorbia heterophylla	PPOX_B41_7	cDNA Contig	1051	1250	GGCTTGAGGCCACACTCTTACGCCAAGT GTAAGTGGATCCTTTGCATTGGGATTTA TGAGCATCTTTCGCAGATCACGGTCAAC

						TGCTTCAACAAGTTCGCTGTCTTTCTTGG CCAATATTCCAGGATTGGTAGCACCCCC AATGTAATTCAAGAGCAAAATTCTTCCA TCTGGTGCTCGGTTAGGGAAAAGTGAT GAGC
1196	Euphorbia heterophylla	PPOX_B41_8	cDNA Contig	1226	1425	TGGCGTAAGAGTGTGGCCTCAAGCCATT CCACAGTTTCTGATTGGTCACTACGATAT CCTAGATACGGCGAAAAATGCGTTAAGT GAACAAGGCTTGGAAGGGCTGTTTTTAG GGGGTAACTATGTGTATGGTGTAGCTTT GGGAAAATGTGTTGAAGGAGCATATGA AACTGCGTCCAGTGTTACTAATTTCCTAA CCC
1197	Euphorbia heterophylla	PPOX_B41_8	cDNA Contig	1226	1425	GGGTTAGGAAATTAGTAACACTGGACG CAGTTTCATATGCTCCTTCAACACATTTT CCCAAAGCTACACCATACACATAGTTAC CCCCTAAAAACAGCCCTTCCAAGCCTTGT TCACTTAACGCATTTTTCGCCGTATCTAG GATATCGTAGTGACCAATCAGAAACTGT GGAATGGCTTGAGGCCACACTCTTACGC CA
1198	Euphorbia heterophylla	PPOX_B41_9	cDNA Contig	1401	1600	TCCAGTGTTACTAATTTCCTAACCCAGTA TACTTATAAATAGTATCTGATGAGATTTA AGCAAGAGTTCAATTATGCTGCGGCTAA GTACTGTGAGTTTATTGAGTAGTGGGTA AAAATGTTGCTTTAGGTCTGTTGTATTTG TAATAGTTGCTTCACGTTTTTCATTAAGG ATGGTGTATTCTCTAGTTATGCATTCTT
1199	Euphorbia heterophylla	PPOX_B41_9	cDNA Contig	1401	1600	AAGAATGCATAACTAGAGAATACACCAT CCTTAATGAAAAACGTGAAGCAACTATT ACAAATACAACAGACCTAAAGCAACATT TTTACCCACTACTCAATAAACTCACAGTA CTTAGCCGCAGCATAATTGAACTCTTGCT TAAATCTCATCAGATACTATTTATAAGTA TACTGGGTTAGGAAATTAGTAACACTGG A
1200	Euphorbia heterophylla	PPOX_B44_1	gDNA Contig	1	200	TACACTAATAAATTTTTAAATTTAAATAC AATAAATTGTATAATCATATATAAATTTA TCAATTTATTTCTTTAAAATCTATAAAAA AAAGTTAATAAAATACTATCTACAGCCC TTGGAAATGATTCCATAAACCTAATCCG AGTACGGAGTTCTAAAATACGGATTGAA CCAGACTTGGAATAATACTTTTGTCGAA A
1201	Euphorbia heterophylla	PPOX_B44_1	gDNA Contig	1	200	TTTCGACAAAAGTATTATTCCAAGTCTG GTTCAATCCGTATTTTAGAACTCCGTACT CGGATTAGGTTTATGGAATCATTTCCAA

						GGGCTGTAGATAGTATTTTATTAACTTTT TTTTATAGATTTTAAAGAAATAAATTGAT AAATTTATATATGATTATACAATTTATTG TATTTAAATTTAAAAATTTATTAGTGTA
1202	Euphorbia heterophylla	PPOX_B44_2	gDNA Contig	176	375	ACTTGGAATAATACTTTTGTCGAAAGCC CAGAAAGTCTGGGTCCGCTCGATTAACA TGTCAAAACAATAGAAGAAAATATCTTT TTATTTTCGTGTAAATGAATTTACCAGTA AGGTTGCGTTTATCATTTGTAGCCTTCGT CCAATCAGATTGACACGCTATATTTCTCC TTGTCAATTGAAGATAACACAGCACTAT T
1203	Euphorbia heterophylla	PPOX_B44_2	gDNA Contig	176	375	AATAGTGCTGTGTTATCTTCAATTGACAA GGAGAAATATAGCGTGTCAATCTGATTG GACGAAGGCTACAAATGATAAACGCAA CCTTACTGGTAAATTCATTTACACGAAAA TAAAAAGATATTTTCTTCTATTGTTTTGA CATGTTAATCGAGCGGACCCAGACTTTC TGGGCTTTCGACAAAAGTATTATTCCAA GT
1204	Euphorbia heterophylla	PPOX_B44_3	gDNA Contig	351	550	CAATTGAAGATAACACAGCACTATTTCC CTATTAGTTCTGAGGCCGCCACTAAACG GCGGTGCGCTTGCCTCTTACCACCACCTT TCGCCGCCATGGCCTCTATTTCCGACTTG TCTCTTTTCCGGCCAACACCTTCTCTTGTT CCATCATTTTCCAAACGCAATTTAAACAA CTCTATCCACAAACAATTCAAACTCCG
1205	Euphorbia heterophylla	PPOX_B44_3	gDNA Contig	351	550	CGGAGTTTGAATTGTTTGTGGATAGAGT TGTTTAAATTGCGTTTGGAAAATGATGG AACAAGAGAAGGTGTTGGCCGGAAAAG AGACAAGTCGGAAATAGAGGCCATGGC GGCGAAAGGTGGTGGTAAGAGGCAAG CGCACCGCCGTTTAGTGGCGGCCTCAGA ACTAATAGGGAAATAGTGCTGTGTTATC TTCAATTG
1206	Euphorbia heterophylla	PPOX_B44_4	gDNA Contig	526	725	CTATCCACAAACAATTCAAACTCCGATG CTCAATTACAGAGCAGCCTTCCACAATTT CCCCATCCAATCCCGGAGACAAATCCTT ATCCGGCAACGGACATTCCGCCTCAGTA GATTGCGTGATTGTAGGAGGTGGAATC ACTGGTCTCTGCATTGCTCAGGCACTCG CCACTAAGCACCGGAATGTTGCTCCCAA TGTT
1207	Euphorbia heterophylla	PPOX_B44_4	gDNA Contig	526	725	AACATTGGGAGCAACATTCCGGTGCTTA GTGGCGAGTGCCTGAGCAATGCAGAGA CCAGTGATTCCACCTCCTACAATCACGCA ATCTACTGAGGCGGAATGTCCGTTGCCG

						GATAAGGATTTGTCTCCGGGATTGGATG GGGAAATTGTGGAAGGCTGCTCTGTAAT TGAGCATCGGAGTTTGAATTGTTTGTGG ATAG
1208	Euphorbia heterophylla	PPOX_B44_5	gDNA Contig	701	900	GCACCGGAATGTTGCTCCCAATGTTATT GTCACCGAGGCTAGAGATCGCGTCGGT GGCAACATCAACACCGTTGAAAGGGAC GGCTATCTCTGGGAAGAGGGGCCTAAC AGTTTCCAGCCCTCCGATCCTATGCTAAC CATGGCGGTGAGGATCCAATTTCTAATT GATTGTCATGTCTAACAAATTATTGACG AAATTT
1209	Euphorbia heterophylla	PPOX_B44_5	gDNA Contig	701	900	AAATTTCGTCAATAATTTGTTAGACATGA CAATCAATTAGAAATTGGATCCTCACCG CCATGGTTAGCATAGGATCGGAGGGCT GGAAACTGTTAGGCCCCTCTTCCCAGAG ATAGCCGTCCCTTTCAACGGTGTTGATG TTGCCACCGACGCGATCTCTAGCCTCGG TGACAATAACATTGGGAGCAACATTCCG GTGC
1210	Euphorbia heterophylla	PPOX_B44_6	gDNA Contig	876	1075	GTCTAACAAATTATTGACGAAATTTGCTT GTAATTGGAGATTTTGGTTGAATTAGCT AATTTGATCGTATTGTAGGTGGATAGTG GTTTGAAGGATGACCTAGTTTTGGGGGA TCCTACTGCGCCACGGTTTGTATTGTGG GATGGACAATTGAGGCCAGTTCCTTCTA AGCCAAGTGACTTGCCGTTCTTTGATTTG AT
1211	Euphorbia heterophylla	PPOX_B44_6	gDNA Contig	876	1075	ATCAAATCAAAGAACGGCAAGTCACTTG GCTTAGAAGGAACTGGCCTCAATTGTCC ATCCCACAATACAAACCGTGGCGCAGTA GGATCCCCCAAAACTAGGTCATCCTTCA AACCACTATCCACCTACAATACGATCAA ATTAGCTAATTCAACCAAAATCTCCAATT ACAAGCAAATTTCGTCAATAATTTGTTA GAC
1212	Euphorbia heterophylla	PPOX_B44_7	gDNA Contig	1051	1250	GTGACTTGCCGTTCTTTGATTTGATGAG CATTGGTGGAAAACTCAGAGCTGGTTTT GGTGCTCTTGGACTTCGGCCTCCACCTCC AGTTTGTCCTCTTTAACTTTCTTATTGTAA TTGTTCTCCGATTGAAAATAGTTCCCCGT GTGTAATTTTATCTGCTCGAAACCTTACA ATTCTGCTGAAAGTGACAGGGACGTGA
1213	Euphorbia heterophylla	PPOX_B44_7	gDNA Contig	1051	1250	TCACGTCCCTGTCACTTTCAGCAGAATTG TAAGGTTTCGAGCAGATAAAATTACACA CGGGGAACTATTTTCAATCGGAGAACAA TTACAATAAGAAAGTTAAAGAGGACAA

						ACTGGAGGTGGAGGCCGAAGTCCAAGA GCACCAAAACCAGCTCTGAGTTTTCCAC CAATGCTCATCAAATCAAAGAACGGCAA GTCAC
1214	Euphorbia heterophylla	PPOX_B44_8	gDNA Contig	1226	1425	TCTGCTGAAAGTGACAGGGACGTGAGG AATCAGTTGAAGAGTTTGTGCGCCGCAA CCTTGGAGATGAAGTTTTCGAGCGTTTG ATTGAGCCATTTTGTTCAGGTAAGTTAA GATATTTGTAGCTTGTAGTGTTCTTATTA GTTGACACTGTATCATGTCAAGTTGTGTT ATCAGACCCAATACAACATCTTACTAATC AT
1215	Euphorbia heterophylla	PPOX_B44_8	gDNA Contig	1226	1425	ATGATTAGTAAGATGTTGTATTGGGTCT GATAACACAACTTGACATGATACAGTGT CAACTAATAAGAACACTACAAGCTACAA ATATCTTAACTTACCTGAACAAAATGGCT CAATCAAACGCTCGAAAACTTCATCTCC AAGGTTGCGGCGCACAAACTCTTCAACT GATTCCTCACGTCCCTGTCACTTTCAGCA GA
1216	Euphorbia heterophylla	PPOX_B44_9	gDNA Contig	1401	1600	CCCAATACAACATCTTACTAATCATCACA TGAATATTGCTGTATTTCCCATGTAAAAT TAAACCGATACAACATACCTCGACTTAA ATTGATGAATACAATTCAATGTAGTGGT ACTTAGTTGACGTCCCTCTTGGTTCGACG ACCTCTTTTAATTATGATATGTTGTGTTT ATCTAAACACTAATTTATGAATTTCATT
1217	Euphorbia heterophylla	PPOX_B44_9	gDNA Contig	1401	1600	AATGAAATTCATAAATTAGTGTTTAGAT AAACACAACATATCATAATTAAAAGAGG TCGTCGAACCAAGAGGGACGTCAACTA AGTACCACTACATTGAATTGTATTCATCA ATTTAAGTCGAGGTATGTTGTATCGGTT TAATTTTACATGGGAAATACAGCAATAT TCATGTGATGATTAGTAAGATGTTGTAT TGGG
1218	Euphorbia heterophylla	PPOX_B44_10	gDNA Contig	1576	1775	TAAACACTAATTTATGAATTTCATTCAAA ATCTATGCCATTGTTAATACAAATCATTA TCAAACTTGAAATGAATTCCATTATTGAA GTTTATATTGCATGCTCAATCTGATATTT GATTCATTTATTTAAGTAGTCCTTTAGCG TGCATATCGTGAATGGTTCCTTGAGATG TGCTTTTGATCATGTAGCATCCATCAT
1219	Euphorbia heterophylla	PPOX_B44_10	gDNA Contig	1576	1775	ATGATGGATGCTACATGATCAAAAGCAC ATCTCAAGGAACCATTCACGATATGCAC GCTAAAGGACTACTTAAATAAATGAATC AAATATCAGATTGAGCATGCAATATAAA CTTCAATAATGGAATTCATTTCAAGTTTG

						ATAATGATTTGTATTAACAATGGCATAG ATTTTGAATGAAATTCATAAATTAGTGTT TA
1220	Euphorbia heterophylla	PPOX_B44_11	gDNA Contig	1751	1950	CTTTTGATCATGTAGCATCCATCATGGTG ATGGCTTATTTGTTCTAGCTATATATAAG ATGATAAGAGAATGACTAAATGGGTAA CTTGTCTATGCTGTCCAGAGGTGTTTAAT TGCTTTGCAGTATCTGAAAAAGAGTCAG TTGGTTTCCCTATGATGTATGCTTCTCAA ACTTAAAATCGCCCTAGTTGATTTTGTTG
1221	Euphorbia heterophylla	PPOX_B44_11	gDNA Contig	1751	1950	CAACAAAATCAACTAGGGCGATTTTAAG TTTGAGAAGCATACATCATAGGGAAACC AACTGACTCTTTTTCAGATACTGCAAAGC AATTAAACACCTCTGGACAGCATAGACA AGTTACCCATTTAGTCATTCTCTTATCAT CTTATATATAGCTAGAACAAATAAGCCA TCACCATGATGGATGCTACATGATCAAA AG
1222	Euphorbia heterophylla	PPOX_B44_12	gDNA Contig	1926	2125	AAAATCGCCCTAGTTGATTTTGTTGCTAA AGTCGGAAGTTTTATTTGTATAATTTGTA TATCTTGACAAGGTTGTCCTTAATGGGA GATGCTATTTTTCATGTGCAGGTGTTTAT GCAGGTGATCCTGCAAAACTCAGCATGA AAGCAGCATTCGGAAAAGTTTGGATGCT GGAACAAAATGGAGGCAGTATCATTGG TG
1223	Euphorbia heterophylla	PPOX_B44_12	gDNA Contig	1926	2125	CACCAATGATACTGCCTCCATTTTGTTCC AGCATCCAAACTTTTCCGAATGCTGCTTT CATGCTGAGTTTTGCAGGATCACCTGCA TAAACACCTGCACATGAAAAATAGCATC TCCCATTAAGGACAACCTTGTCAAGATA TACAAATTATACAAATAAAACTTCCGACT TTAGCAACAAAATCAACTAGGGCGATTT T
1224	Euphorbia heterophylla	PPOX_B44_13	gDNA Contig	2101	2300	CAAAATGGAGGCAGTATCATTGGTGGC ACTTTTAAAGCAATCCAGGAAAGGAATA AAAATCCCAAGCCTCCTCGAGACCCGTA TATTTATCTCCTTGCTTTGAGAATATCTT ACATCTTTTGTTTTTGTTTAGTTTCTTGAC TCTAGTGCCCTGCAGGCGTCTACCAAAA CCAAAGGGCCAAACAGTAGGGTCTTTTA GG
1225	Euphorbia heterophylla	PPOX_B44_13	gDNA Contig	2101	2300	CCTAAAAGACCCTACTGTTTGGCCCTTTG GTTTTGGTAGACGCCTGCAGGGCACTAG AGTCAAGAAACTAAACAAAAACAAAAG ATGTAAGATATTCTCAAAGCAAGGAGAT AAATATACGGGTCTCGAGGAGGCTTGG

						GATTTTTATTCCTTTCCTGGATTGCTTTA AAAGTGCCACCAATGATACTGCCTCCAT TTTG
1226	Euphorbia heterophylla	PPOX_B44_14	gDNA Contig	2276	2475	GGGCCAAACAGTAGGGTCTTTTAGGAA GGGACTGACTATGCTTCCAGAGGCAATT GCATCAAGGTAACATTTCCACCGGAATT GAATTTTATGAACTTTAGATGGTTGTAAT AATTCTTGACAGTGGCTGAAGTAATTGA CTGATTACCTGCATTGGTGTTGCAGTTT GGGTAGTAATATCAAGTTATCTTGGAAG CTTC
1227	Euphorbia heterophylla	PPOX_B44_14	gDNA Contig	2276	2475	GAAGCTTCCAAGATAACTTGATATTACT ACCCAAACTGCAACACCAATGCAGGTAA TCAGTCAATTACTTCAGCCACTGTCAAG AATTATTACAACCATCTAAAGTTCATAAA ATTCAATTCCGGTGGAAATGTTACCTTG ATGCAATTGCCTCTGGAAGCATAGTCAG TCCCTTCCTAAAAGACCCTACTGTTTGGC CC
1228	Euphorbia heterophylla	PPOX_B43_1	gDNA Contig	1	200	TTTATTGTGTAATAATTAAAGGATAATAT TACTGTAAAATAATTTATATTATTTAATA TAATAATTTTAATATTATTATTTTCCTTA AAAGAATTATAAATGAGCTTGTAATGTT CATGAACAATCCATGAATAAGCCAATTG TTAAATAGACCATTCATGAATATGCATTT TGAGCTCGAATTAAACTCAGCTTATTT
1229	Euphorbia heterophylla	PPOX_B43_1	gDNA Contig	1	200	AAATAAGCTGAGTTTAATTCGAGCTCAA AATGCATATTCATGAATGGTCTATTTAAC AATTGGCTTATTCATGGATTGTTCATGAA CATTACAAGCTCATTTATAATTCTTTTAA GGAAAAATAATAATATTAAAATTATTAT ATTAAATAATATAAATTATTTTACAGTAA TATTATCCTTTAATTATTACACAATAAA
1230	Euphorbia heterophylla	PPOX_B43_2	gDNA Contig	176	375	AGCTCGAATTAAACTCAGCTTATTTACAT TGTTGTACATGTGAAATCAAGAGAATGC TCATAAAGTGAGTATTAAACCGAAACAT TTTATATTTCTTAAAGGTCTGACACATGA ATTCTGAGAAATCAAATCTGTAATATTTT GACAAATGAAATAAATCGTAAAATACAT ATATTCATTTTAGTAAAATCTCTAAATTT
1231	Euphorbia heterophylla	PPOX_B43_2	gDNA Contig	176	375	AAATTTAGAGATTTTACTAAAATGAATA TATGTATTTTACGATTTATTTCATTTGTCA AAATATTACAGATTTGATTTCTCAGAATT CATGTGTCAGACCTTTAAGAAATATAAA ATGTTTCGGTTTAATACTCACTTTATGAG CATTCTCTTGATTTCACATGTACAACAAT GTAAATAAGCTGAGTTTAATTCGAGCT

1232	Euphorbia heterophylla	PPOX_B43_3	gDNA Contig	351	550	TCATTTTAGTAAAATCTCTAAATTTTTAA TTCTTTCAATCTTAACATCTTCTTCCTCAA ATCCTTGTAACAAATCACAGCACAATATT TTAGCATTCAAATTCATAGAATATAATTA ACCGTTCAAATCTACCAATCCCACCTCCT TACCCACAGCTTCTACTCCGAGTCCATTC ATTAACCCTCCTCTCTTTGTTACAA
1233	Euphorbia heterophylla	PPOX_B43_3	gDNA Contig	351	550	TTGTAACAAAGAGAGGAGGGTTAATGA ATGGACTCGGAGTAGAAGCTGTGGGTA AGGAGGTGGGATTGGTAGATTTGAACG GTTAATTATATTCTATGAATTTGAATGCT AAAATATTGTGCTGTGATTTGTTACAAG GATTTGAGGAAGAAGATGTTAAGATTG AAAGAATTAAAAATTTAGAGATTTTACT AAAATGA
1234	Euphorbia heterophylla	PPOX_B43_4	gDNA Contig	526	725	ATTAACCCTCCTCTCTTTGTTACAAATTCT TCCATGTCTTATTTTTACTAAAATCTATG CTATCTATGTTTCCTAAAATTATTCCACCT GCTTTCAGTTTTAATAAAACTTCAGATAC TTTGAAGAACTCCAACACTCCATTAAAT GAGACCAAGTTTCGCAAGTCGGGCTACC CTTTGTTGGGCCCAAGCGCAATTTGG
1235	Euphorbia heterophylla	PPOX_B43_4	gDNA Contig	526	725	CCAAATTGCGCTTGGGCCCAACAAAGG GTAGCCCGACTTGCGAAACTTGGTCTCA TTTAATGGAGTGTTGGAGTTCTTCAAAG TATCTGAAGTTTTATTAAAACTGAAAGC AGGTGGAATAATTTTAGGAAACATAGAT AGCATAGATTTTAGTAAAAATAAGACAT GGAAGAATTTGTAACAAAGAGAGGAGG GTTAAT
1236	Euphorbia heterophylla	PPOX_B43_5	gDNA Contig	701	900	TTTGTTGGGCCCAAGCGCAATTTGGACA CCTATTTTTTACTAAGTTCGGCTTAAGCC TCAGCCCGTCAAAATTTAAAGTTTTATGC GTTGAGCTGGGTTTTTTACAATTATCCGA GCCTAATCCGATAAATAATAATTTAATTT TTTTTATATATTATATATTGTACTAAATA ATTATTTCAATATTTATATTTCAAAGT
1237	Euphorbia heterophylla	PPOX_B43_5	gDNA Contig	701	900	ACTTTGAAATATAAATATTGAAATAATTA TTTAGTACAATATATAATATATAAAAAA AATTAAATTATTATTTATCGGATTAGGCT CGGATAATTGTAAAAAACCCAGCTCAAC GCATAAAACTTTAAATTTTGACGGGCTG AGGCTTAAGCCGAACTTAGTAAAAAATA GGTGTCCAAATTGCGCTTGGGCCCAACA AA
1238	Euphorbia heterophylla	PPOX_B43_6	gDNA Contig	876	1075	TATTTCAATATTTATATTTCAAAGTTATG GGTGTGCATCTGGTTAAAACCTAATAGA

						ATCGAATAAATCGAATATCAAATAGAGA AACCAAACCAAATACGAATCAAAATCGA ATTAACCAAATCAAAAATAAATTATTCC GTTTGGTTAAAAACCGAACCAAACCAAA TTTTTTTAAAAAACAAACTTAAATTAAAA AT
1239	Euphorbia heterophylla	PPOX_B43_6	gDNA Contig	876	1075	ATTTTTAATTTAAGTTTGTTTTTTAAAAA AATTTGGTTTGGTTCGGTTTTTAACCAAA CGGAATAATTTATTTTTGATTTGGTTAAT TCGATTTTGATTCGTATTTGGTTTGGTTT CTCTATTTGATATTCGATTTATTCGATTCT ATTAGGTTTTAACCAGATGCACACCCAT AACTTTGAAATATAAATATTGAAATA
1240	Euphorbia heterophylla	PPOX_B43_7	gDNA Contig	1051	1250	TAAAAAACAAACTTAAATTAAAAATTTTA ACTCTTAAAATCCAAAAATAAGTATTAC AATAGTTCAAATGACTTAGTTTTGACAC ATAAATGAATGAGGGTGCATTTTGGGGT TTGATGTTAAAATGATCTATATTTGAGCA TTATTAGTAGAATATTTTAAATTTTTATT ATGATATTTCAATTCGATTCGGTTATTGT
1241	Euphorbia heterophylla	PPOX_B43_7	gDNA Contig	1051	1250	ACAATAACCGAATCGAATTGAAATATCA TAATAAAAATTTAAAATATTCTACTAATA ATGCTCAAATATAGATCATTTTAACATCA AACCCCAAAATGCACCCTCATTCATTTAT GTGTCAAAACTAAGTCATTTGAACTATT GTAATACTTATTTTTGGATTTTAAGAGTT AAAATTTTTAATTTAAGTTTGTTTTTTA
1242	Euphorbia heterophylla	PPOX_B43_8	gDNA Contig	1226	1425	TATTTCAATTCGATTCGGTTATTGTAGTT TTTTCAACACTAAAACTGAACTGAAAATT GAAATGTTTAACTTTAATAAATAAACCG AACCGAATTTTCAAAGTAACCGAACCAA ATTAATAACTCAGTCTTATTCGATTCGGA AATGTAGTTACCAAAACCATTTGCACAC CCATATTTTACACTAATGAATTTTTAAAC
1243	Euphorbia heterophylla	PPOX_B43_8	gDNA Contig	1226	1425	GTTTAAAAATTCATTAGTGTAAAATATG GGTGTGCAAATGGTTTTGGTAACTACAT TTCCGAATCGAATAAGACTGAGTTATTA ATTTGGTTCGGTTACTTTGAAAATTCGGT TCGGTTTATTTATTAAAGTTAAACATTTC AATTTTCAGTTCAGTTTTAGTGTTGAAAA AACTACAATAACCGAATCGAATTGAAAT A
1244	Euphorbia heterophylla	PPOX_B43_9	gDNA Contig	1401	1600	ATTTTACACTAATGAATTTTTAAACTTAA ATACAATAAATTGTATAAATTATTAAAA ATTTCAAATAAATAATATAATCATACGTA ATTTTGTCAATTTATTTCTTAAAATCTATA AAAAAAAAAGTTATTAAAATACTATCTA

						CAGCCTTTGGAAATGATTCCATAAGCCT GATCCGAGCACGGAGTTCTAAAATACG G
1245	Euphorbia heterophylla	PPOX_B43_9	gDNA Contig	1401	1600	CCGTATTTTAGAACTCCGTGCTCGGATC AGGCTTATGGAATCATTTCCAAAGGCTG TAGATAGTATTTTAATAACTTTTTTTTTA TAGATTTTAAGAAATAAATTGACAAAAT TACGTATGATTATATTATTTATTTGAAAT TTTTAATAATTTATACAATTTATTGTATTT AAGTTTAAAAATTCATTAGTGTAAAAT
1246	Euphorbia heterophylla	PPOX_B43_10	gDNA Contig	1576	1775	CCGAGCACGGAGTTCTAAAATACGGATT GAAGCAGACTTGGAATGATACTTTTGTC GAAAGCCCACAAAGTCTGGCCTGTTCGA TTAACATGTCAAAACAATAGAAGAAAAT ATCTTTTTATTTTCGTGTAAATGAATTTA CCAGTAAGGTTGCGTTTATCATTTGTAG CCTTCGTCCAATCAGATTGACACGCTATA TT
1247	Euphorbia heterophylla	PPOX_B43_10	gDNA Contig	1576	1775	AATATAGCGTGTCAATCTGATTGGACGA AGGCTACAAATGATAAACGCAACCTTAC TGGTAAATTCATTTACACGAAAATAAAA AGATATTTTCTTCTATTGTTTTGACATGT TAATCGAACAGGCCAGACTTTGTGGGCT TTCGACAAAAGTATCATTCCAAGTCTGCT TCAATCCGTATTTTAGAACTCCGTGCTCG G
1248	Euphorbia heterophylla	PPOX_B43_11	gDNA Contig	1751	1950	TCCAATCAGATTGACACGCTATATTTCTC CTTGTCAATTGAAGATAACACAGCACTA TTTCCCTATTAGTTCTGAGGCCGCCACTA AACGGAGTGCGCTTGCCTCTTACCACCA CCTTTCGCCGCCATGGCCTCTATTTCCGA CTTGTCTCTTTTCCGGCCAACACCTTCTC TTGTTCCATCATTTTCCAAACGCAATTT
1249	Euphorbia heterophylla	PPOX_B43_11	gDNA Contig	1751	1950	AAATTGCGTTTGGAAAATGATGGAACAA GAGAAGGTGTTGGCCGGAAAAGAGACA AGTCGGAAATAGAGGCCATGGCGGCGA AAGGTGGTGGTAAGAGGCAAGCGCACT CCGTTTAGTGGCGGCCTCAGAACTAATA GGGAAATAGTGCTGTGTTATCTTCAATT GACAAGGAGAAATATAGCGTGTCAATCT GATTGGA
1250	Euphorbia heterophylla	PPOX_B43_12	gDNA Contig	1926	2125	TTCCATCATTTTCCAAACGCAATTTAAAC AACTCTATCCACAAACAATTCAAACTCCG ATGCTCAATTACAGAGCAGCCTTCCACA ATTTCCCCATCCAATCCCGGAGACAAAT CCTTATCCGGCAACGGACATTCCGCCTC AGTAGATTGCGTGATTGTAGGAGGTGG

						AATCACTGGTCTCTGCATTGCTCAGGCACTT
1251	Euphorbia heterophylla	PPOX_B43_12	gDNA Contig	1926	2125	AAGTGCCTGAGCAATGCAGAGACCAGTGATTCCACCTCCTACAATCACGCAATCTACTGAGGCGGAATGTCCGTTGCCGGATAAGGATTTGTCTCCGGGATTGGATGGGGAAATTGTGGAAGGCTGCTCTGTAATTGAGCATCGGAGTTTGAATTGTTTGTGGATAGAGTTGTTTAAATTGCGTTTGGAAAATGATGGAA
1252	Euphorbia heterophylla	PPOX_B43_13	gDNA Contig	2101	2300	TGGTCTCTGCATTGCTCAGGCACTTGCCACTAAGCACCGGAATGTTGCTCCCAACGTTATTGTCACCGAGGCTAGAGATCGCGTCGGTGGCAACATCAACACCGTTGAAAGGGACGGCTATCTCTGGGAAGAGGGGCCTAACAGTTTCCAGCCCTCCGATCCTATGCTAACCATGGCGGTGAGGATCCAATTTCTAATTG
1253	Euphorbia heterophylla	PPOX_B43_13	gDNA Contig	2101	2300	CAATTAGAAATTGGATCCTCACCGCCATGGTTAGCATAGGATCGGAGGGCTGGAAACTGTTAGGCCCCTCTTCCCAGAGATAGCCGTCCCTTTCAACGGTGTTGATGTTGCCACCGACGCGATCTCTAGCCTCGGTGACAATAACGTTGGGAGCAACATTCCGGTGCTTAGTGGCAAGTGCCTGAGCAATGCAGAGACCA
1254	Euphorbia heterophylla	PPOX_B43_14	gDNA Contig	2276	2475	GCGGTGAGGATCCAATTTCTAATTGATTGTCATGTCTAACAAATTATTGACGAAATTTGCTTGTAATTGGAGATTTTGGTTGAATTAGCTAATTTGATCGTATTGTAGGTGGATAGTGGTTTGAAGGATGACCTAGTTTTGGGGGATCCTACTGCGCCACGGTTTGTATTGTGGGATGGGCAATTGAGGCCAGTTCCTTC
1255	Euphorbia heterophylla	PPOX_B43_14	gDNA Contig	2276	2475	GAAGGAACTGGCCTCAATTGCCCATCCCACAATACAAACCGTGGCGCAGTAGGATCCCCCAAAACTAGGTCATCCTTCAAACCACTATCCACCTACAATACGATCAAATTAGCTAATTCAACCAAAATCTCCAATTACAAGCAAATTTCGTCAATAATTTGTTAGACATGACAATCAATTAGAAATTGGATCCTCACCGC
1256	Euphorbia heterophylla	PPOX_B43_15	gDNA Contig	2451	2650	ATGGGCAATTGAGGCCAGTTCCTTCTAAGCCAAGTGACTTGCCGTTCTTTGATTTGATGAGCATTGGTGGAAAACTCAGAGCTGGTTTTGGTGCTCTTGGACTTCGGCCTCCACCTCCAGTTTGTCCTCTTTAACTTTCTTAT

						TGTAATTGTTCTCCGATTGAAAATAGTCC CCCGTGTGTAATTTTATCTGCTCGTAAC
1257	Euphorbia heterophylla	PPOX_B43_15	gDNA Contig	2451	2650	GTTACGAGCAGATAAAATTACACACGG GGGACTATTTTCAATCGGAGAACAATTA CAATAAGAAAGTTAAAGAGGACAAACT GGAGGTGGAGGCCGAAGTCCAAGAGCA CCAAAACCAGCTCTGAGTTTTCCACCAAT GCTCATCAAATCAAAGAACGGCAAGTCA CTTGGCTTAGAAGGAACTGGCCTCAATT GCCCAT
1258	Euphorbia heterophylla	PPOX_B43_16	gDNA Contig	2626	2825	GTGTGTAATTTTATCTGCTCGTAACCTTA CAATTCTGCTGAAAGTGACAGGGACGT GAGGAATCAGTTGAAGAGTTTGTGCGC CGCAACCTTGGAGATGAAGTTTTCGAGC GTTTGATTGAGCCATTTTGTTCAGGTAA GTTAAGATATTTGGAGCTTGTAGTGTTC TTATTAGTTGACACTGTATCATGTCAAGT TGTG
1259	Euphorbia heterophylla	PPOX_B43_16	gDNA Contig	2626	2825	CACAACTTGACATGATACAGTGTCAACT AATAAGAACACTACAAGCTCCAAATATC TTAACTTACCTGAACAAAATGGCTCAAT CAAACGCTCGAAAACTTCATCTCCAAGG TTGCGGCGCACAAACTCTTCAACTGATT CCTCACGTCCCTGTCACTTTCAGCAGAAT TGTAAGGTTACGAGCAGATAAAATTACA CAC
1260	Euphorbia heterophylla	PPOX_B43_17	gDNA Contig	2801	3000	TGACACTGTATCATGTCAAGTTGTGTTAT CAGACCCATTACAACATCTTACCAATCAT CACATGAATATTGCTGTATTTCCCATGTA AAATTAAACCGATACAACATACCTCGAC TTAAATTGACGAATACAATTCAATGTAG TGGTACTTAGTTGACGTCCCTTTTGGTTC GACGACCTCTTTTAATTATGATATGTTG
1261	Euphorbia heterophylla	PPOX_B43_17	gDNA Contig	2801	3000	CAACATATCATAATTAAAAGAGGTCGTC GAACCAAAAGGGACGTCAACTAAGTAC CACTACATTGAATTGTATTCGTCAATTTA AGTCGAGGTATGTTGTATCGGTTTAATT TTACATGGGAAATACAGCAATATTCATG TGATGATTGGTAAGATGTTGTAATGGGT CTGATAACACAACTTGACATGATACAGT GTCA
1262	Euphorbia heterophylla	PPOX_B43_18	gDNA Contig	2976	3175	GACCTCTTTTAATTATGATATGTTGTGTT ATATCTAAACACTAAATTATGAATTTCAT TCAAAATCTATGCCATTGTTAATACAAAT CATTATCAAACTTGAAGTGAATTCCATTA TTGAAGTTTATATTGCATGCTCAATCTCA TCCATCTGATATTTGATTCATTTATTTAA

						GTAGTCCTTTAGCGTGCATATCGTGA
1263	Euphorbia heterophylla	PPOX_B43_18	gDNA Contig	2976	3175	TCACGATATGCACGCTAAAGGACTACTTAAATAAATGAATCAAATATCAGATGGATGAGATTGAGCATGCAATATAAACTTCAATAATGGAATTCACTTCAAGTTTGATAATGATTTGTATTAACAATGGCATAGATTTTGAATGAAATTCATAATTTAGTGTTTAGATATAACACAACATATCATAATTAAAAGAGGTC
1264	Euphorbia heterophylla	PPOX_B43_19	gDNA Contig	3151	3350	TAGTCCTTTAGCGTGCATATCGTGAATGGTTCCTTGAGATGTGCTTTTGATCATGTAGCATCCATCATGGTGATGGCTTATTTGTTCTAGCTATATATAAGATGATAAGAGAATGACTAAATGGGTAACTTGTCTATGCTGTCCAGAGGTGTTTAATTGCTTTGCAGTATCTGAAAAAGAGTCAGTTGGTTTCCCTATGA
1265	Euphorbia heterophylla	PPOX_B43_19	gDNA Contig	3151	3350	TCATAGGGAAACCAACTGACTCTTTTTCAGATACTGCAAAGCAATTAAACACCTCTGGACAGCATAGACAAGTTACCCATTTAGTCATTCTCTTATCATCTTATATATAGCTAGAACAAATAAGCCATCACCATGATGGATGCTACATGATCAAAAGCACATCTCAAGGAACCATTCACGATATGCACGCTAAAGGACTA
1266	Euphorbia heterophylla	PPOX_B43_20	gDNA Contig	3326	3525	AAAGAGTCAGTTGGTTTCCCTATGATGTATGCTTCTCAAACTTAAAATCGCCCTAGTTGATTTTGTTGCTAAATTCGGAAGTTTTATTTGTATAATTTGTATATCTTGACAAGGTTGTCCTTAATGGGAGATGCTATTTTTCATGTGCAGGTGTTTATGCAGGTGATCCTGCAAAACTCAGCATGAAAGCAGCATTCGGA
1267	Euphorbia heterophylla	PPOX_B43_20	gDNA Contig	3326	3525	TCCGAATGCTGCTTTCATGCTGAGTTTTGCAGGATCACCTGCATAAACACCTGCACATGAAAAATAGCATCTCCCATTAAGGACAACCTTGTCAAGATATACAAATTATACAAATAAAACTTCCGAATTTAGCAACAAAATCAACTAGGGCGATTTTAAGTTTGAGAAGCATACATCATAGGGAAACCAACTGACTCTTT
1268	Euphorbia heterophylla	PPOX_B43_21	gDNA Contig	3501	3700	ACTCAGCATGAAAGCAGCATTCGGAAAAGTTTGGATGCTGGAACAAAATGGAGGCAGTATCATTGGTGGCACTTTTAAAGCAATCCAGGAAAGGAATAAAAATCCCAAGCCTCCTCGAGACCCGTATATTTATCTCCTTGCTTTGAGAATATCTTACATCTTTTGTT

						TTTGTTGAGTTTCTTGACTCTAGTGCCCTGCAG
1269	Euphorbia heterophylla	PPOX_B43_21	gDNA Contig	3501	3700	CTGCAGGGCACTAGAGTCAAGAAACTCAACAAAAACAAAAGATGTAAGATATTCTCAAAGCAAGGAGATAAATATACGGGTCTCGAGGAGGCTTGGGATTTTTATTCCTTTCCTGGATTGCTTTAAAAGTGCCACCAATGATACTGCCTCCATTTTGTTCCAGCATCCAAACTTTTCCGAATGCTGCTTTCATGCTGAGT
1270	Euphorbia heterophylla	PPOX_B43_22	gDNA Contig	3676	3875	GTTTCTTGACTCTAGTGCCCTGCAGGCGTCTACCAAAACCAAAGGGCCAAACAGTAGGGTCTTTTAGGAAGGGACTGACTATGCTTCCAGAGGCAATTGCATCAAGGTAACATTTCCACCGGAATTAAAATTTTATGAACTTTAGATGGTTGTAATAATTCTTGACAGTGGCTGAAGTAATTGACTGATTACCTGCATTG
1271	Euphorbia heterophylla	PPOX_B43_22	gDNA Contig	3676	3875	CAATGCAGGTAATCAGTCAATTACTTCAGCCACTGTCAAGAATTATTACAACCATCTAAAGTTCATAAAATTTTAATTCCGGTGGAAATGTTACCTTGATGCAATTGCCTCTGGAAGCATAGTCAGTCCCTTCCTAAAAGACCCTACTGTTTGGCCCTTTGGTTTTGGTAGACGCCTGCAGGGCACTAGAGTCAAGAAAC
1272	Euphorbia heterophylla	PPOX_B43_23	gDNA Contig	3851	4050	AGTAATTGACTGATTACCTGCATTGGTGTTGCAGTTTGGGTAGTAATATCAAGTTATCTTGGAAGCTTCTGGGTATCTCTAAATTGGACAATCGGGAGTACAGTTTAACATATGAAACACCTGAAGGATCAGTTACTGTGCAGAGCAAGAGTGTCGTACTTACAATTCCATCCCATATTGCCAGCAATATCCTGAATCCT
1273	Euphorbia heterophylla	PPOX_B43_23	gDNA Contig	3851	4050	AGGATTCAGGATATTGCTGGCAATATGGGATGGAATTGTAAGTACGACACTCTTGCTCTGCACAGTAACTGATCCTTCAGGTGTTTCATATGTTAAACTGTACTCCCGATTGTCCAATTTAGAGATACCCAGAAGCTTCCAAGATAACTTGATATTACTACCCAAACTGCAACACCAATGCAGGTAATCAGTCAATTACT
1274	Euphorbia heterophylla	PPOX_B48_1	gDNA Contig	1	77	TTTTTCAACACTAAAACTGAATTGAAAATTGAAATGTTTAACTTTAATAAACAAACCGAACCGAATTTTCAGAGTA
1275	Euphorbia heterophylla	PPOX_B48_1	gDNA Contig	1	77	TACTCTGAAAATTCGGTTCGGTTTGTTTATTAAAGTTAAACATTTCAATTTTCAATTC

						AGTTTTAGTGTTGAAAAAA
1276	Kochia scoparia	PPOX_B58_1	cDNA Contig	1	200	ATACACTGCTCTACAATCTCAACCTCAAC TCCAACCTCAAGTTCAAACCCAGGAACA CTTGGCGAAGGAGGATTATTGGATTGTG TGATCGTGGGAGGTGGTATTAGTGGGC TCTGCATTGCACAAGCACTTTCTACAAA GTACTCTTCTCTTTCTACAAATTTCATTGT TACCGAGGCGAAAGATCGAGTTGGTGG CAA
1277	Kochia scoparia	PPOX_B58_1	cDNA Contig	1	200	TTGCCACCAACTCGATCTTTCGCCTCGGT AACAATGAAATTTGTAGAAAGAGAAGA GTACTTTGTAGAAAGTGCTTGTGCAATG CAGAGCCCACTAATACCACCTCCCACGA TCACACAATCCAATAATCCTCCTTCGCCA AGTGTTCCTGGGTTTGAACTTGAGGTTG GAGTTGAGGTTGAGATTGTAGAGCAGT GTAT
1278	Kochia scoparia	PPOX_B58_2	cDNA Contig	176	375	AGGCGAAAGATCGAGTTGGTGGCAACA TTACCACCAAGGAGGATGATGGCTATAT CTGGGAAGAAGGACCCAACAGTTTTCA GCCGTCTGATGCAGTTCTCACCATGGCT GTTGATTGTGGGTTGAAAGATGAATTGG TGTTTGGTGACCCCAAAGCACCTCGATT TGTGCTGTGGAATGGGAAATTAAGGCG GGTACCT
1279	Kochia scoparia	PPOX_B58_2	cDNA Contig	176	375	AGGTACCCGCCTTAATTTCCCATTCCACA GCACAAATCGAGGTGCTTTGGGGTCACC AAACACCAATTCATCTTTCAACCCACAAT CAACAGCCATGGTGAGAACTGCATCAG ACGGCTGAAAACTGTTGGGTCCTTCTTC CCAGATATAGCCATCATCCTCCTTGGTG GTAATGTTGCCACCAACTCGATCTTTCGC CT
1280	Kochia scoparia	PPOX_B58_3	cDNA Contig	351	550	GAATGGGAAATTAAGGCGGGTACCTTCT AAGCTCACAGATCTCCCTTTCTTTGATCT TATGAGCTTTCCTGGCAAGATTAGAGCT GGCCTTGGCGCTCTTGGATTTCGTCCTTC TCCACCAGGTCGTGAAGAATCTGTTGAG GATTTTGTTCGTCGAAATCTTGGCGATG AGGTCTTTGAACGTTTGATTGAACCTTTT T
1281	Kochia scoparia	PPOX_B58_3	cDNA Contig	351	550	AAAAAGGTTCAATCAAACGTTCAAAGAC CTCATCGCCAAGATTTCGACGAACAAAA TCCTCAACAGATTCTTCACGACCTGGTG GAGAAGGACGAAATCCAAGAGCGCCAA GGCCAGCTCTAATCTTGCCAGGAAAGCT CATAAGATCAAAGAAAGGGAGATCTGT

						GAGCTTAGAAGGTACCCGCCTTAATTTC CCATTC
1282	Kochia scoparia	PPOX_B58_4	cDNA Contig	526	725	TTTGAACGTTTGATTGAACCTTTTTGTTC AGGTGTGTATGCTGGTGATCCTGCCAAG TTAAGCATGAAAGCTGCTTTTGGCAGAG TGTGGGTTTTGGAGCAGATGGGTGGTA ATATCATTGGTGGCGCTCTCAAAACTAT CCAGGAAAAGAAGAATAAGCCTAAGCC GCCTCGAGATCCGCGCCTTCCGAAGCCA AAGGG
1283	Kochia scoparia	PPOX_B58_4	cDNA Contig	526	725	CCCTTTGGCTTCGGAAGGCGCGGATCTC GAGGCGGCTTAGGCTTATTCTTCTTTTCC TGGATAGTTTTGAGAGCGCCACCAATGA TATTACCACCCATCTGCTCCAAAACCCAC ACTCTGCCAAAAGCAGCTTTCATGCTTA ACTTGGCAGGATCACCAGCATACACACC TGAACAAAAAGGTTCAATCAAACGTTCA AA
1284	Kochia scoparia	PPOX_B58_5	cDNA Contig	701	900	ATCCGCGCCTTCCGAAGCCAAAGGGTCA GACAGTTGGATCCTTTAGGAAAGGACTC ATTATGTTGCCGAACGCCATTTCTGCTAG GCTTGGAAGTAAAGTGAAACTTTCTTGG ACTCTAGCTAGTATTTCTAAGACACACA ATGGGGAATATAATTTGATTTATGATAC ACCAGATGGACCGGTTTCCGTAAGGACT AAA
1285	Kochia scoparia	PPOX_B58_5	cDNA Contig	701	900	TTTAGTCCTTACGGAAACCGGTCCATCT GGTGTATCATAAATCAAATTATATTCCCC ATTGTGTGTCTTAGAAATACTAGCTAGA GTCCAAGAAAGTTTCACTTTACTTCCAAG CCTAGCAGAAATGGCGTTCGGCAACATA ATGAGTCCTTTCCTAAAGGATCCAACTG TCTGACCCTTTGGCTTCGGAAGGCGCGG AT
1286	Kochia scoparia	PPOX_B58_6	cDNA Contig	876	1075	TGGACCGGTTTCCGTAAGGACTAAAAGT ATCGTGATGACTATTCCATCATATGTTGC AAGTAGTCTGCTTCGTCCATTCTCAGATG CTGCTGCAGATTCCCTTTCAAAATTTCAC TATCCACCTGTTGCAGCAGTGTCACTGTC TTATCCTGAAGAAGCGATTAGACCTGAG TGCTTGATTGATGGTAAACTTCAAGGAT
1287	Kochia scoparia	PPOX_B58_6	cDNA Contig	876	1075	ATCCTTGAAGTTTACCATCAATCAAGCAC TCAGGTCTAATCGCTTCTTCAGGATAAG ACAGTGACACTGCTGCAACAGGTGGAT AGTGAAATTTTGAAAGGGAATCTGCAGC AGCATCTGAGAATGGACGAAGCAGACT ACTTGCAACATATGATGGAATAGTCATC

						ACGATACTTTTAGTCCTTACGGAAACCG GTCCA
1288	Kochia scoparia	PPOX_B58_7	cDNA Contig	1051	1250	TTGATTGATGGTAAACTTCAAGGATTCG GGCAACTGCATCCCCGCAGTCAGGGTGT GGAAACCTTGGGATCAATTTATAGTTCA TCTCTTTTCCCTGGTCGAGCACCACCTGG TAGGACCATGATCTTGAGCTTCATTGGA GGTGCTACTAATCCTGGCATAGTAGACA AGACGCAAGATGAACTTGCTAAGACTGT TGA
1289	Kochia scoparia	PPOX_B58_7	cDNA Contig	1051	1250	TCAACAGTCTTAGCAAGTTCATCTTGCGT CTTGTCTACTATGCCAGGATTAGTAGCA CCTCCAATGAAGCTCAAGATCATGGTCC TACCAGGTGGTGCTCGACCAGGGAAAA GAGATGAACTATAAATTGATCCCAAGGT TTCCACACCCTGACTGCGGGGATGCAGT TGCCCGAATCCTTGAAGTTTACCATCAAT CAA
1290	Kochia scoparia	PPOX_B58_8	cDNA Contig	1226	1425	AAGATGAACTTGCTAAGACTGTTGACAA GGACCTGAGAAGAATTCTTATAAATCCA AGTGCAAAAGATCCTCGTGTTCTAGGCG TGAAAGTATGGCCTCAAGCAATACCCCA ATTTTTGATAGGCCACTTTGATCTGCTTG ATGCTGCAAAAGCTGCTTTGACTGATGC TGGGTGTAAAGGATTGTTTCTTGGAGGA AAC
1291	Kochia scoparia	PPOX_B58_8	cDNA Contig	1226	1425	GTTTCCTCCAAGAAACAATCCTTTACACC CAGCATCAGTCAAAGCAGCTTTTGCAGC ATCAAGCAGATCAAAGTGGCCTATCAAA AATTGGGGTATTGCTTGAGGCCATACTT TCACGCCTAGAACACGAGGATCTTTTGC ACTTGGATTTATAAGAATTCTTCTCAGGT CCTTGTCAACAGTCTTAGCAAGTTCATCT T
1292	Kochia scoparia	PPOX_B59_1	cDNA Contig	1	200	ATACACTGCTCTACAATCTCAACCTCAAC TCCAACCTCAAGTTCAAACCCAGGAACA CTTGGCGAAGGAGGATTATTGGATTGTG TGATCGTGGGAGGTGGTATTAGTGGGC TCTGCATTGCACAAGCACTTTCTACAAA GTACTCTTCTCTTTCTACAAATTTCATTGT TACCGAGGCGAAAGATCGAGTTGGTGG CAA
1293	Kochia scoparia	PPOX_B59_1	cDNA Contig	1	200	TTGCCACCAACTCGATCTTTCGCCTCGGT AACAATGAAATTTGTAGAAAGAGAAGA GTACTTTGTAGAAAGTGCTTGTGCAATG CAGAGCCCACTAATACCACCTCCCACGA TCACACAATCCAATAATCCTCCTTCGCCA

						AGTGTTCCTGGGTTTGAACTTGAGGTTG GAGTTGAGGTTGAGATTGTAGAGCAGT GTAT
1294	Kochia scoparia	PPOX_B59_2	cDNA Contig	176	375	AGGCGAAAGATCGAGTTGGTGGCAACA TTACCACCAAGGAGGATGATGGCTATAT CTGGGAAGAAGGACCCAACAGTTTTCA GCCGTCTGATGCAGTTCTCACCATGGCT GTTGATTGTGGGTTGAAAGATGAATTGG TGTTTGGTGACCCCAAAGCACCTCGATT TGTGCTGTGGAATGGGAAATTAAGGCG GGTACCT
1295	Kochia scoparia	PPOX_B59_2	cDNA Contig	176	375	AGGTACCCGCCTTAATTTCCCATTCCACA GCACAAATCGAGGTGCTTTGGGGTCACC AAACACCAATTCATCTTTCAACCCACAAT CAACAGCCATGGTGAGAACTGCATCAG ACGGCTGAAAACTGTTGGGTCCTTCTTC CCAGATATAGCCATCATCCTCCTTGGTG GTAATGTTGCCACCAACTCGATCTTTCGC CT
1296	Kochia scoparia	PPOX_B59_3	cDNA Contig	351	550	GAATGGGAAATTAAGGCGGGTACCTTCT AAGCTCACAGATCTCCCTTTCTTTGATCT TATGAGCTTTCCTGGCAAGATTAGAGCT GGCCTTGGCGCTCTTGGATTTCGTCCTTC TCCACCAGGTCGTGAAGAATCTGTTGAG GATTTTGTTCGTCGAAATCTTGGCGATG AGGTCTTTGAACGTTTGATTGAACCTTTT T
1297	Kochia scoparia	PPOX_B59_3	cDNA Contig	351	550	AAAAAGGTTCAATCAAACGTTCAAAGAC CTCATCGCCAAGATTTCGACGAACAAAA TCCTCAACAGATTCTTCACGACCTGGTG GAGAAGGACGAAATCCAAGAGCGCCAA GGCCAGCTCTAATCTTGCCAGGAAAGCT CATAAGATCAAAGAAAGGGAGATCTGT GAGCTTAGAAGGTACCCGCCTTAATTTC CCATTC
1298	Kochia scoparia	PPOX_B59_4	cDNA Contig	526	725	TTTGAACGTTTGATTGAACCTTTTTGTTC AGGTGTGTATGCTGGTGATCCTGCCAAG TTAAGCATGAAAGCTGCTTTTGGCAGAG TGTGGGTTTTGGAGCAGATGGGTGGTA ATATCATTGGTGGCGCTCTCAAAACTAT CCAGGAAAAGAAGAATAAGCCTAAGCC GCCTCGAGATCCGCGCCTTCCGAAGCCA AAGGG
1299	Kochia scoparia	PPOX_B59_4	cDNA Contig	526	725	CCCTTTGGCTTCGGAAGGCGCGGATCTC GAGGCGGCTTAGGCTTATTCTTCTTTTCC TGGATAGTTTTGAGAGCGCCACCAATGA TATTACCACCCATCTGCTCCAAAACCCAC

						ACTCTGCCAAAAGCAGCTTTCATGCTTA ACTTGGCAGGATCACCAGCATACACACC TGAACAAAAAGGTTCAATCAAACGTTCA AA
1300	Kochia scoparia	PPOX_B59_5	cDNA Contig	701	900	ATCCGCGCCTTCCGAAGCCAAAGGGTCA GACAGTTGGATCCTTTAGGAAAGGACTC ATTATGTTGCCGAACGCCATTTCTGCTAG GCTTGGAAGTAAAGTGAAACTTTCTTGG ACTCTAGCTAGTATTTCTAAGACACACA ATGGGGAATATAATTTGATTTATGATAC ACCAGATGGACCGGTTTCCGTAAGGACT AAA
1301	Kochia scoparia	PPOX_B59_5	cDNA Contig	701	900	TTTAGTCCTTACGGAAACCGGTCCATCT GGTGTATCATAAATCAAATTATATTCCCC ATTGTGTGTCTTAGAAATACTAGCTAGA GTCCAAGAAAGTTTCACTTTACTTCCAAG CCTAGCAGAAATGGCGTTCGGCAACATA ATGAGTCCTTTCCTAAAGGATCCAACTG TCTGACCCTTTGGCTTCGGAAGGCGCGG AT
1302	Kochia scoparia	PPOX_B60_1	cDNA Contig	1	200	CAGGATGCTGCTGCAGATTCCCTTTCAA AATTTCACTATCCACCTGTTGCAGCAGTG TCACTGTCTTATCCTGAAGAAGCGATTA GACCTGAGTGCTTGATTGATGGTAAACT TCAAGGATTCGGGCAACTGCATCCCCGC AGTCAGGGTGTGGAAACCTTGGGATCA ATTTATAGTTCATCTCTTTTCCCTGGTCG AGC
1303	Kochia scoparia	PPOX_B60_1	cDNA Contig	1	200	GCTCGACCAGGGAAAAGAGATGAACTA TAAATTGATCCCAAGGTTTCCACACCCTG ACTGCGGGGATGCAGTTGCCCGAATCCT TGAAGTTTACCATCAATCAAGCACTCAG GTCTAATCGCTTCTTCAGGATAAGACAG TGACACTGCTGCAACAGGTGGATAGTG AAATTTTGAAAGGGAATCTGCAGCAGCA TCCTG
1304	Kochia scoparia	PPOX_B60_2	cDNA Contig	176	375	GTTCATCTCTTTTCCCTGGTCGAGCACCA CCTGGTAGGACCATGATCTTGAGCTTCA TTGGAGGTGCTACTAATCCTGGCATAGT AGACAAGACGCAAGATGAACTTGCTAA GACTGTTGACAAGGACCTGAGAAGAAT TCTTATAAATCCAAGTGCAAAAGATCCT CGTGTTCTAGGCGTGAAAGTATGGCCTC AAGCA
1305	Kochia scoparia	PPOX_B60_2	cDNA Contig	176	375	TGCTTGAGGCCATACTTTCACGCCTAGA ACACGAGGATCTTTTGCACTTGGATTTAT AAGAATTCTTCTCAGGTCCTTGTCAACA

						GTCTTAGCAAGTTCATCTTGCGTCTTGTC TACTATGCCAGGATTAGTAGCACCTCCA ATGAAGCTCAAGATCATGGTCCTACCAG GTGGTGCTCGACCAGGGAAAAGAGATG AAC
1306	Kochia scoparia	PPOX_B60_3	cDNA Contig	351	550	AGGCGTGAAAGTATGGCCTCAAGCAAT ACCCCAATTTTTGATAGGCCACTTTGATC TGCTTGATGCTGCAAAAGCTGCTTTGAC TGATGCTGGGTGTAAAGGATTGTTTCTT GGAGGAAACTATGTATCAGGTGTTGCCT TGGGGCGGTGTATAGAGGGTGCTTATG AATCTGCAGCCGAGGTAGTTGATTTCCT CTCCC
1307	Kochia scoparia	PPOX_B60_3	cDNA Contig	351	550	GGGAGAGGAAATCAACTACCTCGGCTG CAGATTCATAAGCACCCTCTATACACCG CCCCAAGGCAACACCTGATACATAGTTT CCTCCAAGAAACAATCCTTTACACCCAG CATCAGTCAAAGCAGCTTTTGCAGCATC AAGCAGATCAAAGTGGCCTATCAAAAAT TGGGGTATTGCTTGAGGCCATACTTTCA CGCCT
1308	Kochia scoparia	PPOX_B61_1	cDNA Contig	1	200	GTAACTTGCCTACCCCTCTCAGTTATAAT TACTACATTCAAGAAGGTTAATGTGAAA AGACCTCTTGAGGGCTTTGGAGTTCTTG TCCCCTCTGTTGAGCAGAAAAATGGGTT GAAGACTCTTGGTACACTATTTTCCTCCA TCATGTTTCCTGATCGTGCTCCCTCTGAT GTGTATCTCTATACAACCTTTGTTGGTGG
1309	Kochia scoparia	PPOX_B61_1	cDNA Contig	1	200	CCACCAACAAAGGTTGTATAGAGATACA CATCAGAGGGAGCACGATCAGGAAACA TGATGGAGGAAAATAGTGTACCAAGAG TCTTCAACCCATTTTTCTGCTCAACAGAG GGGACAAGAACTCCAAAGCCCTCAAGA GGTCTTTTCACATTAACCTTCTTGAATGT AGTAATTATAACTGAGAGGGGTAGGCA AGTTAC
1310	Kochia scoparia	PPOX_B61_2	cDNA Contig	176	375	ATCTCTATACAACCTTTGTTGGTGGAAG CAGGAATAGTGAACTTGCAAAAGCTTCA ACGGATGAGCTGAAGCAAATAGTTTCTT CTGACCTTGAGAAGCTATTGGGCACTGA GGGTGAACCTACCTCTGTGAATCATTTCT ATTGGAGCAAGGCATTCCCTCTTTATGG GCGCAACTATGACTCAGTACTCAAAGCA ATC
1311	Kochia scoparia	PPOX_B61_2	cDNA Contig	176	375	GATTGCTTTGAGTACTGAGTCATAGTTG CGCCCATAAAGAGGGAATGCCTTGCTCC AATAGAAATGATTCACAGAGGTAGGTTC

						ACCCTCAGTGCCCAATAGCTTCTCAAGG TCAGAAGAAACTATTTGCTTCAGCTCATC CGTTGAAGCTTTTGCAAGTTCACTATTCC TGCTTCCACCAACAAAGGTTGTATAGAG AT
1312	Lolium multiflorum	PPOX_B65_1	cDNA Contig	1	150	AATCCTGCCTTATTGGTATTTATTATGCA GGTGGATTATCTGCCGTTATCCCTCATG GTAACAGCTTTTAAGAAGGAAGATGTCA AAAGACCCCTGGAAGGATTTGGGGTGT TGGTACCCTATAAGGAACAGCAAAAACA TGGTCTGAAA
1313	Lolium multiflorum	PPOX_B65_1	cDNA Contig	1	150	TTTCAGACCATGTTTTTGCTGTTCCTTAT AGGGTACCAACACCCCAAATCCTTCCAG GGGTCTTTTGACATCTTCCTTCTTAAAAG CTGTTACCATGAGGGATAACGGCAGATA ATCCACCTGCATAATAAATACCAATAAG GCAGGATT
1314	Lolium multiflorum	PPOX_B68_1	cDNA Contig	1	108	AGGGTGGCCATCATCGGCGCCGGCGTG AGCGGCCTGGCGGCGTGCAAGCACCTG CTGGAGCGCGGCTGCCGGCCCGTCGTCT TCGAGGCGGACACGCTCCTTGGCGGT
1315	Lolium multiflorum	PPOX_B68_1	cDNA Contig	1	108	ACCGCCAAGGAGCGTGTCCGCCTCGAA GACGACGGGCCGGCAGCCGCGCTCCAG CAGGTGCTTGCACGCCGCCAGGCCGCTC ACGCCGGCGCCGATGATGGCCACCCT
1316	Lolium multiflorum	PPOX_B66_1	cDNA Contig	1	144	AGTGTTGGGAGCTTCTTTGAACGCCATT TTGGAAAGGAAGTTGTCGACTATCTTAT TGATCCATTTGTAGCTGGAACAAGTGCA GGAGATCCTGAGTCATTATCTATCCGTC ATGCATTTCCAGCGTTATGGAATTTAGA AAAG
1317	Lolium multiflorum	PPOX_B66_1	cDNA Contig	1	144	CTTTTCTAAATTCCATAACGCTGGAAATG CATGACGGATAGATAATGACTCAGGATC TCCTGCACTTGTTCCAGCTACAAATGGAT CAATAAGATAGTCGACAACTTCCTTTCCA AAATGGCGTTCAAAGAAGCTCCCAACAC T
1318	Lolium multiflorum	PPOX_B67_1	cDNA Contig	1	114	ATAGGAACCCTCTTCTCCTCTATGATGTT CCCAGATCGAGCTCCTAATGACCAACAC TTATTTACAACATTCGTTGGGGGAAGCC ACAATAGGGATCTCGCTGGAGCTCCAAC G
1319	Lolium multiflorum	PPOX_B67_1	cDNA Contig	1	114	CGTTGGAGCTCCAGCGAGATCCCTATTG TGGCTTCCCCCAACGAATGTTGTAAATA AGTGTTGGTCATTAGGAGCTCGATCTGG GAACATCATAGAGGAGAAGAGGGTTCC TAT

1320	Lolium multiflorum	PPOX_B69_1	gDNA Contig	1	200	CTCGACGCGAACGCGGGATCTCTTTCGC GTCAGGCGTGAAATAGGGCCGGATTTC CATATACAACTACTAACCGAGAACCCCG CCCACTGGAATGCGATTCCCAGCCCATC GACCTATCCAATTCCAATTCCAGTGGGC CATGAAAACCGCAAACCAACCAACCAAT ACAGCCGCAGCCGCATCCCGTCATCCAC TCCGC
1321	Lolium multiflorum	PPOX_B69_1	gDNA Contig	1	200	GCGGAGTGGATGACGGGATGCGGCTGC GGCTGTATTGGTTGGTTGGTTTGCGGTT TTCATGGCCCACTGGAATTGGAATTGGA TAGGTCGATGGGCTGGGAATCGCATTCC AGTGGGCGGGGTTCTCGGTTAGTAGTT GTATATGGAAATCCGGCCCTATTTCACG CCTGACGCGAAAGAGATCCCGCGTTCGC GTCGAG
1322	Lolium multiflorum	PPOX_B69_2	gDNA Contig	176	375	AGCCGCATCCCGTCATCCACTCCGCACT GCCATCTCCCCCGCCCGAGCGACGGAAA TGGTCGGCGCAACCATGGCCACCGCTAC CGTCACGGCGGCGCTACCGCTCCGCCTC CGGGTCCCCGCGCGCCCCCGACGCGGA CAGACGCGCTGCGCGGTCGCGAGCGAT GCCACCGAGGCGCCGGCCGTGCCCAGC GCACGGC
1323	Lolium multiflorum	PPOX_B69_2	gDNA Contig	176	375	GCCGTGCGCTGGGCACGGCCGGCGCCT CGGTGGCATCGCTCGCGACCGCGCAGC GCGTCTGTCCGCGTCGGGGGCGCGCGG GGACCCGGAGGCGGAGCGGTAGCGCC GCCGTGACGGTAGCGGTGGCCATGGTT GCGCCGACCATTTCCGTCGCTCGGGCGG GGGAGATGGCAGTGCGGAGTGGATGAC GGGATGCGGCT
1324	Lolium multiflorum	PPOX_B69_3	gDNA Contig	351	550	GCGCCGGCCGTGCCCAGCGCACGGCTG TCCGCGGATTGCGTCATCGTGGGCGGC GGCATCAGCGGCCTCTGCACCGCACAG GCGCTGGCCACCAAGTACGGCGTCACC GACTTGCTCGTCACGGAGGCCCGCGCTC GCGCAGGCGGCAACATCACCACCGTCG AGCGCCCCGACGAGGGGTACCTCTGGG AGGAGGGCCC
1325	Lolium multiflorum	PPOX_B69_3	gDNA Contig	351	550	GGGCCCTCCTCCCAGAGGTACCCCTCGT CGGGGCGCTCGACGGTGGTGATGTTGC CGCCTGCGCGAGCGCGGGCCTCCGTGA CGAGCAAGTCGGTGACGCCGTACTTGGT GGCCAGCGCCTGTGCGGTGCAGAGGCC GCTGATGCCGCCGCCCACGATGACGCAA TCCGCGGACAGCCGTGCGCTGGGCACG

						GCCGGCGC
1326	Lolium multiflorum	PPOX_B69_4	gDNA Contig	526	725	AGGGGTACCTCTGGGAGGAGGGCCCCA ACAGCTTCCAGCCCTCCGACCCCGTCCTC ACCATGGCCGTACGCACCATGCTCGCTT TCTCCTTCTTTTCCGGATTCTTCGGGACG TAGGCGTACAGAATACAGATACGATCGC TGAATGGATTGGTTGCGCAGGTAGACA GCGGGCTCAAGGATGACTTGGTGTTCG GGGAC
1327	Lolium multiflorum	PPOX_B69_4	gDNA Contig	526	725	GTCCCCGAACACCAAGTCATCCTTGAGC CCGCTGTCTACCTGCGCAACCAATCCATT CAGCGATCGTATCTGTATTCTGTACGCCT ACGTCCCGAAGAATCCGGAAAAGAAGG AGAAAGCGAGCATGGTGCGTACGGCCA TGGTGAGGACGGGGTCGGAGGGCTGG AAGCTGTTGGGGCCCTCCTCCCAGAGGT ACCCCT
1328	Lolium multiflorum	PPOX_B69_5	gDNA Contig	701	900	CAAGGATGACTTGGTGTTCGGGGACCCC AATGCGCCGCGCTTCGTGCTGTGGCAGG GGAAGCTGAGGCCGGTGCCGTCCAAGC CTGGCGACCTGCCTTTCTTCGACCTCATG AGTATTCCTGGGAAGCTCAGGGCCGGC CTTGGCGCGCTCGGCATTCGTCCGCCTC CTCCAGTTTGTGCTCTGCCCGTGCTCTCT ATTC
1329	Lolium multiflorum	PPOX_B69_5	gDNA Contig	701	900	GAATAGAGAGCACGGGCAGAGCACAAA CTGGAGGAGGCGGACGAATGCCGAGCG CGCCAAGGCCGGCCCTGAGCTTCCCAGG AATACTCATGAGGTCGAAGAAAGGCAG GTCGCCAGGCTTGGACGGCACCGGCCTC AGCTTCCCCTGCCACAGCACGAAGCGCG GCGCATTGGGGTCCCCGAACACCAAGTC ATCCTTG
1330	Lolium multiflorum	PPOX_B69_6	gDNA Contig	876	1075	TGTGCTCTGCCCGTGCTCTCTATTCTTTA GTGAATTTTGATTGTCAAAGATGGGGCT GAGCGTTCCCGGCGAAGGTTTCAGGGG CGTGAGGAGTCGGTGGAGGAGTTTGTG CGCCGCAACCTCGGCGCGGAGGTCTTTG AGCGCCTCATCGAGCCTTTCTGCTCAGG TAATGTGCAGTAGTATATGTCTGTTCTGT TCTG
1331	Lolium multiflorum	PPOX_B69_6	gDNA Contig	876	1075	CAGAACAGAACAGACATATACTACTGCA CATTACCTGAGCAGAAAGGCTCGATGA GGCGCTCAAAGACCTCCGCGCCGAGGTT GCGGCGCACAAACTCCTCCACCGACTCC TCACGCCCCTGAAACCTTCGCCGGGAAC GCTCAGCCCCATCTTTGACAATCAAAATT

						CACTAAAGAATAGAGAGCACGGGCAGAGCACA
1332	Lolium multiflorum	PPOX_B69_7	gDNA Contig	1051	1250	AGTAGTATATGTCTGTTCTGTTCTGCTCTGCTTCTTGCATTGATCCCGATAATAAGAATATAACATTTCGATATCAACGTTAGGTGTGTATGCGGGTGACCCTTCAAAGCTCAGTATGCGGGCTGCATTTGGGAAGGTATGGAGACTGGAGGAGAATGGAGGCAGTATTATTGGTGGAACCATCAAGGCAATTCAGGATA
1333	Lolium multiflorum	PPOX_B69_7	gDNA Contig	1051	1250	TATCCTGAATTGCCTTGATGGTTCCACCAATAATACTGCCTCCATTCTCCTCCAGTCTCCATACCTTCCCAAATGCAGCCCGCATACTGAGCTTTGAAGGGTCACCCGCATACACACCTAACGTTGATATCGAAATGTTATATTCTTATTATCGGGATCAATGCAAGAAGCAGAGCAGAACAGAACAGACATATACTACT
1334	Lolium multiflorum	PPOX_B69_8	gDNA Contig	1226	1425	GGAACCATCAAGGCAATTCAGGATAGAGGCAAGAACCCCAAACCACCGAGGGATCCGTAAGTGGAGACTCTACTTTTCTATTTAGTCAGTTAACTCACTGTTCCATTAGACTCGTATTAATCTGTTTCACCACTTTTAGCCGACTTCCGACACCAAAGGGGCAGACGGTGGCATCTTTCAGGAAGGGTCTAGCCATGCTC
1335	Lolium multiflorum	PPOX_B69_8	gDNA Contig	1226	1425	GAGCATGGCTAGACCCTTCCTGAAAGATGCCACCGTCTGCCCCTTTGGTGTCGGAAGTCGGCTAAAAGTGGTGAAACAGATTAATACGAGTCTAATGGAACAGTGAGTTAACTGACTAAATAGAAAAGTAGAGTCTCCACTTACGGATCCCTCGGTGGTTTGGGGTTCTTGCCTCTATCCTGAATTGCCTTGATGGTTCC
1336	Lolium multiflorum	PPOX_B69_9	gDNA Contig	1401	1600	TTTCAGGAAGGGTCTAGCCATGCTCCCAAATGCTATCGCTTCTAGGTTTGTTTTCATCACTTGTGCACATACCTAAGTTATGCTATCAGTATACGTGGTGCTGTATATTGTTCAGATAGAGGGGACAGATCTGTTGGTAGACCTACTGTTTGCTGAACTCAATACCATATGAATATCATTGCATCAGCACCCAAAGTACC
1337	Lolium multiflorum	PPOX_B69_9	gDNA Contig	1401	1600	GGTACTTTGGGTGCTGATGCAATGATATTCATATGGTATTGAGTTCAGCAAACAGTAGGTCTACCAACAGATCTGTCCCCTCTATCTGAACAATATACAGCACCACGTATACTGATAGCATAACTTAGGTATGTGCACAAG

						TGATGAAAACAAACCTAGAAGCGATAG CATTTGGGAGCATGGCTAGACCCTTCCT GAAA
1338	Lolium multiflorum	PPOX_B69_10	gDNA Contig	1576	1775	TCATTGCATCAGCACCCAAAGTACCTGT GGCTCGATTATTATATCAGCCATTCTCGC ATTGTTGATACTAATGCATCTGTGTTAAT CTTTTTCATCTTGCTTTTTTGGTTGGGAC CTGTACTATATAGGAAATTCCACGAGGG ATGAGTTATAGAGCATGTGTGTGTATGT CCATGCCCCTTGTACTCGGAGATGATCA T
1339	Lolium multiflorum	PPOX_B69_10	gDNA Contig	1576	1775	ATGATCATCTCCGAGTACAAGGGGCATG GACATACACACACATGCTCTATAACTCAT CCCTCGTGGAATTTCCTATATAGTACAG GTCCCAACCAAAAAAGCAAGATGAAAA AGATTAACACAGATGCATTAGTATCAAC AATGCGAGAATGGCTGATATAATAATCG AGCCACAGGTACTTTGGGTGCTGATGCA ATGA
1340	Lolium multiflorum	PPOX_B69_11	gDNA Contig	1751	1950	GCCCCTTGTACTCGGAGATGATCATGAA TTATAGTAATAATTTCATGCTTGGTCTTA AGACGTAACCCTGTCATGTTTTGCATTCC TTCATTTCCAGGTTGGGTAGTAAAGTCA AACTCTCGTGGAAGCTTACGGGCATTAC AAAGTCGGACAACCAGGGATATGTGTT AGCGTATGAAACACCGGAAGGAGTTGT TTCA
1341	Lolium multiflorum	PPOX_B69_11	gDNA Contig	1751	1950	TGAAACAACTCCTTCCGGTGTTTCATACG CTAACACATATCCCTGGTTGTCCGACTTT GTAATGCCCGTAAGCTTCCACGAGAGTT TGACTTTACTACCCAACCTGGAAATGAA GGAATGCAAAACATGACAGGGTTACGT CTTAAGACCAAGCATGAAATTATTACTA TAATTCATGATCATCTCCGAGTACAAGG GGC
1342	Lolium multiflorum	PPOX_B69_12	gDNA Contig	1926	2125	TGAAACACCGGAAGGAGTTGTTTCAGTG CAGGCTAAAAGTGTTATCATGACCATTC CGTCATATATTGCTAGTGAAATCTTGCG CCCACTTTCGGTAAGTTCATGTTTGCAAA ATTAATTGGTGTACTACTAATGTTAGTGT TAGGTTCCTGTAGTTCTCCATACTCCTGT GCAGTGGCGGACCCAGGATTTTGGCAA AG
1343	Lolium multiflorum	PPOX_B69_12	gDNA Contig	1926	2125	CTTTGCCAAAATCCTGGGTCCGCCACTG CACAGGAGTATGGAGAACTACAGGAAC CTAACACTAACATTAGTAGTACACCAATT AATTTTGCAAACATGAACTTACCGAAAG

						TGGGCGCAAGATTTCACTAGCAATATAT GACGGAATGGTCATGATAACACTTTTAG CCTGCACTGAAACAACTCCTTCCGGTGTT TCA
1344	Lolium multiflorum	PPOX_B69_13	gDNA Contig	2101	2300	TGGCGGACCCAGGATTTTGGCAAAGGG TATGCCACACAAAAAAATTGGCCTGCCT TGATAACGATTTTTTCTTAGAATATGAAG TAGAAGTGATGATTATGAAATATGATTG AAAAAATCAAATAAAAGTGTTCTTGCAT TATAATCAAAATATTAAATTGCTTAACAC ATGCACGGTTTGCGAGGTGTCCTATTTT TTA
1345	Lolium multiflorum	PPOX_B69_13	gDNA Contig	2101	2300	TAAAAAATAGGACACCTCGCAAACCGTG CATGTGTTAAGCAATTTAATATTTTGATT ATAATGCAAGAACACTTTTATTTGATTTT TTCAATCATATTTCATAATCATCACTTCTA CTTCATATTCTAAGAAAAAATCGTTATCA AGGCAGGCCAATTTTTTTGTGTGGCATA CCCTTTGCCAAAATCCTGGGTCCGCCA
1346	Lolium multiflorum	PPOX_B69_14	gDNA Contig	2276	2475	GGTTTGCGAGGTGTCCTATTTTTTAAACT AATTTCTCACCGTACCATCTGACCCTAAA TTTCTGAAGTATTTGACCACGGAATAAT CGTTTCAGCAACACTACAAGATAACGTT AGATCGTACTAAATAAACAAAGAAATAT GCTGAAGAAAGCTACAACGGAGCATAT AAAAATTAGTCACAATAGCTAAATGGTT TCT
1347	Lolium multiflorum	PPOX_B69_14	gDNA Contig	2276	2475	AGAAACCATTTAGCTATTGTGACTAATTT TTATATGCTCCGTTGTAGCTTTCTTCAGC ATATTTCTTTGTTTATTTAGTACGATCTA ACGTTATCTTGTAGTGTTGCTGAAACGA TTATTCCGTGGTCAAATACTTCAGAAATT TAGGGTCAGATGGTACGGTGAGAAATT AGTTTAAAAAATAGGACACCTCGCAAAC C
1348	Lolium multiflorum	PPOX_B69_15	gDNA Contig	2451	2650	TAGTCACAATAGCTAAATGGTTTCTTAAT TAATCACCATAGCTAATCATCCATTACGA AAGTACCTGGACGCATGCATGGTGCATG GCCATGTCTCTAGGCTAGTTTAGCAATT AACCGGATGGTCAAGTGAGTACCAAAA ACTAATAAAGCATGTGTCCCTGTACGAT GCATGCTCGCAGGCTACATGCACCGGCT TGA
1349	Lolium multiflorum	PPOX_B69_15	gDNA Contig	2451	2650	TCAAGCCGGTGCATGTAGCCTGCGAGCA TGCATCGTACAGGGACACATGCTTTATT AGTTTTTGGTACTCACTTGACCATCCGGT TAATTGCTAAACTAGCCTAGAGACATGG

						CCATGCACCATGCATGCGTCCAGGTACT TTCGTAATGGATGATTAGCTATGGTGAT TAATTAAGAAACCATTTAGCTATTGTGA CTA
1350	Lolium multiflorum	PPOX_B69_16	gDNA Contig	2626	2825	TCGCAGGCTACATGCACCGGCTTGATTA AAATGGCCAGCTGATTACAGGCGGTTCA TATGGCTGGGCCGCTAGGTATGCCATGG CATATGCGGCATACCCTGTAGGTCCGCA CTGCTCCTGTGGTAACCATGAAATAGCA CGCTAGTACACTATTCCTTAATAGAGTTG CTAATCAATAATTGACCGCATTACGATA CTG
1351	Lolium multiflorum	PPOX_B69_16	gDNA Contig	2626	2825	CAGTATCGTAATGCGGTCAATTATTGAT TAGCAACTCTATTAAGGAATAGTGTACT AGCGTGCTATTTCATGGTTACCACAGGA GCAGTGCGGACCTACAGGGTATGCCGC ATATGCCATGGCATACCTAGCGGCCCAG CCATATGAACCGCCTGTAATCAGCTGGC CATTTTAATCAAGCCGGTGCATGTAGCC TGCGA
1352	Lolium multiflorum	PPOX_B69_17	gDNA Contig	2801	3000	AATAATTGACCGCATTACGATACTGGTT GCCTGTAATCTTAGTCCAAACACATGATT GAGCATTTTTGTTGAGAGATTAATTGAT TAATGTGGTTAAACTGTTCACTGATGCA TAGGTTGGACTATTTCTTCACCAATCAAC TCTATGTTTCAAATAATTGAAATATACAT CAATAGATTCAGAAAACTGTATCTTGTTT
1353	Lolium multiflorum	PPOX_B69_17	gDNA Contig	2801	3000	AAACAAGATACAGTTTTCTGAATCTATT GATGTATATTTCAATTATTTGAAACATAG AGTTGATTGGTGAAGAAATAGTCCAACC TATGCATCAGTGAACAGTTTAACCACAT TAATCAATTAATCTCTCAACAAAAATGCT CAATCATGTGTTTGGACTAAGATTACAG GCAACCAGTATCGTAATGCGGTCAATTA TT
1354	Lolium multiflorum	PPOX_B62_1	cDNA Contig	1	200	GAGCGCCTCATCGAGCCTTCTGCTCAGG TGTGTATGCGGGTGACCCTTCAAAGCTC AGTATGAGGGCTGCGTTTGGGAAGGTA TGGAGACTGGAGGAGAATGGAGGCAGT ATTATTGGTGGAACCATCAAGGCAATTC AGGATAGAGGCAAGAACCCCAAACCGC CGAGGGATCCCCGACTTCCGACACCAAA GGGGCAG
1355	Lolium multiflorum	PPOX_B62_1	cDNA Contig	1	200	CTGCCCCTTTGGTGTCGGAAGTCGGGGA TCCCTCGGCGGTTTGGGGTTCTTGCCTCT ATCCTGAATTGCCTTGATGGTTCCACCAA TAATACTGCCTCCATTCTCCTCCAGTCTC

						CATACCTTCCCAAACGCAGCCCTCATACT GAGCTTTGAAGGGTCACCCGCATACACA CCTGAGCAGAAGGCTCGATGAGGCGCT C
1356	Lolium multiflorum	PPOX_B62_2	cDNA Contig	176	375	CCGACTTCCGACACCAAAGGGGCAGAC GGTGGCATCTTTCAGGAAGGGTCTAGCC ATGCTCCCAAATGCTATCGCTTCTAGGTT GGGTAGTAAAGTCAAACTCTCGTGGAA GCTTACGGGCATTACAAAGTCGGACAAC CAGGGATATGTGTTAGCGTATGAAACAC CGGAAGGAGTTGTTTCAGTGCAGGCTA AAAGTG
1357	Lolium multiflorum	PPOX_B62_2	cDNA Contig	176	375	CACTTTTAGCCTGCACTGAAACAACTCCT TCCGGTGTTTCATACGCTAACACATATCC CTGGTTGTCCGACTTTGTAATGCCCGTA AGCTTCCACGAGAGTTTGACTTTACTACC CAACCTAGAAGCGATAGCATTTGGGAG CATGGCTAGACCCTTCCTGAAAGATGCC ACCGTCTGCCCCTTTGGTGTCGGAAGTC GG
1358	Lolium multiflorum	PPOX_B62_3	cDNA Contig	351	550	GTTGTTTCAGTGCAGGCTAAAAGTGTTA TCATGACCATTCCGTCATATATTGCTAGT GAAATCTTGCGCCCACTTTCGAGTGATG CAGCAGATGGTCTCTCAAAATTTTATTAT CCACCGGTTGCTGCTGTAACTGTTTCATA TCCAACAGAAGCTATTAGAAAGAATGCT TAATTGATGGGGAGCTCCAGGGTTTCGG C
1359	Lolium multiflorum	PPOX_B62_3	cDNA Contig	351	550	GCCGAAACCCTGGAGCTCCCCATCAATT AAGCATTCTTTCTAATAGCTTCTGTTGGA TATGAAACAGTTACAGCAGCAACCGGTG GATAATAAAATTTTGAGAGACCATCTGC TGCATCACTCGAAAGTGGGCGCAAGATT TCACTAGCAATATATGACGGAATGGTCA TGATAACACTTTTAGCCTGCACTGAAAC AAC
1360	Lolium multiflorum	PPOX_B62_4	cDNA Contig	526	725	TGATGGGGAGCTCCAGGGTTTCGGCCA GTTGCATCCACGTAGCCAAGGAGTTGAG ACTTTAGGGACAATATATAGCTCTTCTCT CTTTCCGAATCGTGCTCCTGCTGGAAGA GTGTTACTTCTGAACTATATCGGGGGTG CTACAAATACAGGGATCGTCTCCAAGAC TGAGAGTGACTTGGTGGAAGCAGTTGA TCGTG
1361	Lolium multiflorum	PPOX_B62_4	cDNA Contig	526	725	CACGATCAACTGCTTCCACCAAGTCACTC TCAGTCTTGGAGACGATCCCTGTATTTGT AGCACCCCCGATATAGTTCAGAAGTAAC

						ACTCTTCCAGCAGGAGCACGATTCGGAA AGAGAGAAGAGCTATATATTGTCCCTAA AGTCTCAACTCCTTGGCTACGTGGATGC AACTGGCCGAAACCCTGGAGCTCCCCAT CA
1362	Lolium multiflorum	PPOX_B62_5	cDNA Contig	701	900	GACTTGGTGGAAGCAGTTGATCGTGACC TCAGAAAAATGTTGATAAATCCTACAGC ACCAGACCCTTTAGCCTTAGGCGTCCGA GTGTGGCCACAAGCCATTCCACAGTTTT TGATTGGGCACCTTGATCGCCTTGATGC GGCAAAATCTGCCTTGGCCAGAGGCGG CTGCAGTGGGTTGTTTCTAGGAGGAAAC TATGT
1363	Lolium multiflorum	PPOX_B62_5	cDNA Contig	701	900	ACATAGTTTCCTCCTAGAAACAACCCACT GCAGCCGCCTCTGGCCAAGGCAGATTTT GCCGCATCAAGGCGATCAAGGTGCCCA ATCAAAAACTGTGGAATGGCTTGTGGCC ACACTCGGACGCCTAAGGCTAAAGGGT CTGGTGCTGTAGGATTTATCAACATTTTT CTGAGGTCACGATCAACTGCTTCCACCA AGTC
1364	Lolium multiflorum	PPOX_B62_6	cDNA Contig	876	1075	GGTTGTTTCTAGGAGGAAACTATGTAGC AGGAGTTGCCTTGGGCCGATGCATCGA GGGTGCGTACGAGAGTGCCTCAGAAGT ATCTGACTTCTTGACCAAGTATGCCTACA AGTGATGAAAGAAGTGTAATTCATCATC TTGCTGCATATTTGAGGTGCGGCCAGAA TTAGTAATAATTCGGAAAATCTTGTAATC TTCT
1365	Lolium multiflorum	PPOX_B62_6	cDNA Contig	876	1075	AGAAGATTACAAGATTTTCCGAATTATT ACTAATTCTGGCCGCACCTCAAATATGC AGCAAGATGATGAATTACACTTCTTTCAT CACTTGTAGGCATACTTGGTCAAGAAGT CAGATACTTCTGAGGCACTCTCGTACGC ACCCTCGATGCATCGGCCCAAGGCAACT CCTGCTACATAGTTTCCTCCTAGAAACAA CC
1366	Lolium multiflorum	PPOX_B70_1	gDNA Contig	1	200	GGTTTTGGTATTATTCTACTAATAATTCG TGGCATTTTTATGTAGGGACAATATATA GCTCTTCTCTCTTTCCAAATCGTGCTCCT GCTGGAAGAGTGTTACTTCTGAACTATA TCGGTGGTGCTACAAATACAGGGATCGT CTCCAAGGTTCTCTCGACCTGCTGGATA CTCATGTCATTTTCTTATTGCGTGATACC A
1367	Lolium multiflorum	PPOX_B70_1	gDNA Contig	1	200	TGGTATCACGCAATAAGAAAATGACATG AGTATCCAGCAGGTCGAGAGAACCTTG

						GAGACGATCCCTGTATTTGTAGCACCAC CGATATAGTTCAGAAGTAACACTCTTCC AGCAGGAGCACGATTTGGAAAGAGAGA AGAGCTATATATTGTCCCTACATAAAAA TGCCACGAATTATTAGTAGAATAATACC AAAACC
1368	Lolium multiflorum	PPOX_B70_2	gDNA Contig	176	375	GTCATTTTCTTATTGCGTGATACCAGGTT ACAGTATTCAGTTAGTGTTGGTCACCTAT TCATTTATGATTAATATAAATAACTGGAC TGCATTTTTCACCCCCAGCTGCAATTGTG AATACAAATAGATTAAATGGTCTGCTTA GATGCTACATTCAATCTCAATAGTATTGT TAGATTTTTTTTTTGGCTGGCCATATT
1369	Lolium multiflorum	PPOX_B70_2	gDNA Contig	176	375	AATATGGCCAGCCAAAAAAAAAATCTAA CAATACTATTGAGATTGAATGTAGCATC TAAGCAGACCATTTAATCTATTTGTATTC ACAATTGCAGCTGGGGGTGAAAAATGC AGTCCAGTTATTTATATTAATCATAAATG AATAGGTGACCAACACTAACTGAATACT GTAACCTGGTATCACGCAATAAGAAAAT GAC
1370	Lolium multiflorum	PPOX_B70_3	gDNA Contig	351	550	GATTTTTTTTTTGGCTGGCCATATTTATA CTGATCCCATTTTGTTTGCAGACTGAGA GTGACTTGGTGGAAGCAGTTGATCGTG ACCTCAGAAAAATGTTGATAAATCCTAC AGCACCAGACCCTTTAGCCTTAGGTGTC CGAGTGTGGCCACAAGCCATTCCACAGT TTTTGATTGGGCACCTTGATCGCCTTGAT GCG
1371	Lolium multiflorum	PPOX_B70_3	gDNA Contig	351	550	CGCATCAAGGCGATCAAGGTGCCCAATC AAAAACTGTGGAATGGCTTGTGGCCACA CTCGGACACCTAAGGCTAAAGGGTCTG GTGCTGTAGGATTTATCAACATTTTTCTG AGGTCACGATCAACTGCTTCCACCAAGT CACTCTCAGTCTGCAAACAAAATGGGAT CAGTATAAATATGGCCAGCCAAAAAAAA AATC
1372	Lolium multiflorum	PPOX_B70_4	gDNA Contig	526	725	TGGGCACCTTGATCGCCTTGATGCGGCA AAATCTGCCTTGGCCAGAGGCGGCTGCA GTGGGTTGTTCCTAGGAGGAAACTATGT AGCAGGAGTTGCCTTGGGCCGATGCATC GAGGGTGCGTACGAGAGTGCCTCAGAA GTATCTGACTTCTTGACCAAGTATGCCTA CAAGTGATGAAAGAAGTGTAATTCATCA TCTT
1373	Lolium multiflorum	PPOX_B70_4	gDNA Contig	526	725	AAGATGATGAATTACACTTCTTTCATCAC TTGTAGGCATACTTGGTCAAGAAGTCAG

						ATACTTCTGAGGCACTCTCGTACGCACC CTCGATGCATCGGCCCAAGGCAACTCCT GCTACATAGTTTCCTCCTAGGAACAACC CACTGCAGCCGCCTCTGGCCAAGGCAGA TTTTGCCGCATCAAGGCGATCAAGGTGC CCA
1374	Lolium multiflorum	PPOX_B71_1	gDNA Contig	1	200	TCAGGGGCGTGAGGAGTCGGTGGAGG AATTTGTGCGCCGCAACCTGGGTGCGGA GGTCTTTGAGCGCCTCATCGAGCCTTTCT GCTCAGGTAGTGTGCAGTAGTATCTGTC TGTTCTGTTCTGCTCTGCTTCCTGCATTG ATTCCGATAATAAGAATATAACATTTCG ATATCAACGTTAGGTGTGTATGCGGGTG ACCC
1375	Lolium multiflorum	PPOX_B71_1	gDNA Contig	1	200	GGGTCACCCGCATACACACCTAACGTTG ATATCGAAATGTTATATTCTTATTATCGG AATCAATGCAGGAAGCAGAGCAGAACA GAACAGACAGATACTACTGCACACTACC TGAGCAGAAAGGCTCGATGAGGCGCTC AAAGACCTCCGCACCCAGGTTGCGGCGC ACAAATTCCTCCACCGACTCCTCACGCCC CTGA
1376	Lolium multiflorum	PPOX_B71_2	gDNA Contig	176	375	CGTTAGGTGTGTATGCGGGTGACCCTTC AAAGCTCAGTATGCGGGCTGCGTTTGG GAAGGTATGGAGACTGGAGGAGAATG GAGGCAGTATTATTGGTGGAACCATCAA GGCAATTCAGGATAGAGGCAAGAACCC CAAACCGCCGAGGGATCCGTAAGTGGA GACTGCAATTTTCTATTTAGTCAGTTAAC TGTTCCAT
1377	Lolium multiflorum	PPOX_B71_2	gDNA Contig	176	375	ATGGAACAGTTAACTGACTAAATAGAAA ATTGCAGTCTCCACTTACGGATCCCTCG GCGGTTTGGGGTTCTTGCCTCTATCCTG AATTGCCTTGATGGTTCCACCAATAATAC TGCCTCCATTCTCCTCCAGTCTCCATACC TTCCCAAACGCAGCCCGCATACTGAGCT TTGAAGGGTCACCCGCATACACACCTAA CG
1378	Lolium multiflorum	PPOX_B63_1	cDNA Contig	1	200	TTGAAACAACTTGTGACCTCTGACCTTA GAAAGCTCTTGGGTGTAGAGGGGCAGC CAACTTTTGTGAGACATATACATTGGAA AAATGCTTTTCCTCTGTATGGCCATGATT ATGATTTGGCATTGGAAGCTATAGGAAA GATGGAGAATGATCTTCCAGGGTTCTTC TATGCAGGAAATAACAAGGATGGCTTG GCTGT
1379	Lolium	PPOX_B63_1	cDNA	1	200	ACAGCCAAGCCATCCTTGTTATTTCCTGC

	multiflorum		Contig			ATAGAAGAACCCTGGAAGATCATTCTCC ATCTTTCCTATAGCTTCCAATGCCAAATC ATAATCATGGCCATACAGAGGAAAAGC ATTTTTCCAATGTATATGTCTCACAAAAG TTGGCTGCCCCTCTACACCCAAGAGCTTT CTAAGGTCAGAGGTCACAAGTTGTTTCA A
1380	Lolium multiflorum	PPOX_B64_1	cDNA Contig	1	200	TTGATATTTATTATGCAGGTGGATTATCT GCCGTTATCCCTCATGGTAACAGCTTTTA AGAAGGAAGATGTCAAAAGACCCCTGG AAGGATTTGGGGTGTTGGTACCCTATAA GGAACAGCAAAAACATGGTCTGAAAAC CCTTGGAACCCTCTTCTCCTCTATGATGT TCCCAGATCGAGCTCCTAATGACCAACA CTT
1381	Lolium multiflorum	PPOX_B64_1	cDNA Contig	1	200	AAGTGTTGGTCATTAGGAGCTCGATCTG GGAACATCATAGAGGAGAAGAGGGTTC CAAGGGTTTTCAGACCATGTTTTTGCTGT TCCTTATAGGGTACCAACACCCCAAATC CTTCCAGGGGTCTTTTGACATCTTCCTTC TTAAAAGCTGTTACCATGAGGGATAACG GCAGATAATCCACCTGCATAATAAATAT CAA

Table 3

SEQ ID NO	Seq	Gene	#Species	Species
1382	TTTGTAGCACCTCCAATGTAG	PPOX	10	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis,Commelina diffusa
1383	TGGCTATATCTGGGAAGAGGG	PPOX	10	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus

				spinosus,Amaranthus thunbergii,Amaranthus viridis,Chenopodium album
1384	TCTTCCCAGATATAGCCATCG	PPOX	10	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis,Chenopodium album
1385	TACATTGGAGGTGCTACAAAT	PPOX	10	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis,Commelina diffusa
1386	GATGGCTATATCTGGGAAGAG	PPOX	10	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis,Chenopodium album
1387	CTTCCCAGATATAGCCATCGG	PPOX	10	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis,Chenopodium album

1388	CTCTTCCCAGATATAGCCATC	PPOX	10	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis,Chenopodium album
1389	CTACATTGGAGGTGCTACAAA	PPOX	10	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis,Commelina diffusa
1390	CGATGGCTATATCTGGGAAGA	PPOX	10	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis,Chenopodium album
1391	CCTCTTCCCAGATATAGCCAT	PPOX	10	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis,Chenopodium album
1392	CCGATGGCTATATCTGGGAAG	PPOX	10	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus

				lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis,Chenopodium album
1393	CCCTCTTCCCAGATATAGCCA	PPOX	10	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis,Chenopodium album
1394	ATTTGTAGCACCTCCAATGTA	PPOX	10	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis,Commelina diffusa
1395	ATGGCTATATCTGGGAAGAGG	PPOX	10	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis,Chenopodium album
1396	TTTTTTGATCTCATGAGCTTT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus

				thunbergii,Amaranthus viridis
1397	TTTTTGATCTCATGAGCTTTC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1398	TTTTGCTCTAAGGTCCAGACC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1399	TTTTGATCTCATGAGCTTTCC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1400	TTTGGTCCTAACAGAAACCGG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1401	TTTGGCCATACTCTCACTCCC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus

				palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1402	TTTGGATTTATCAGAATTTTT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1403	TTTGGAAAGGTCTGGACCTTA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1404	TTTGCTCTAAGGTCCAGACCT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1405	TTTGATCTCATGAGCTTTCCT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1406	TTTGAGTGTACCGGCGATGAT	PPOX	9	Amaranthus albus,Amaranthus

				graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1407	TTTGACTTTACTGCCAAGCCT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1408	TTTCTGTTAGGACCAAAGCGG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1409	TTTCTAATATTGATAAGTCGC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1410	TTTCGCATTTGGATTTATCAG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis

1411	TTTCCTGGTAAGATTAGGGCT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1412	TTTCCTAAAGGATCCAACAGT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1413	TTTCCAAATGCAGCTTTCATA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1414	TTTCAATCCACTGTCAACCGC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1415	TTTATCAGAATTTTTCTGAGA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus

				thunbergii,Amaranthus viridis
1416	TTTAGGAAGGCGGGGGTCTCG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1417	TTTACTGCCAAGCCTAGCAGC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1418	TTGTAGCACCTCCAATGTAGC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1419	TTGGTCCTAACAGAAACCGGT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1420	TTGGCCATACTCTCACTCCCA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus

				palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1421	TTGGCAGTAAAGTCAAACTAT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1422	TTGGATTTATCAGAATTTTTC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1423	TTGGAAAGGTCTGGACCTTAG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1424	TTGGAAACTATTAGGACCCTC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1425	TTGCTGCTAGGCTTGGCAGTA	PPOX	9	Amaranthus albus,Amaranthus

				graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1426	TTGCTCTAAGGTCCAGACCTT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1427	TTGCCTTTGGCCATACTCTCA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1428	TTGCAAGTAGCCTGCTTCGTC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1429	TTGATCTTGAGCTACATTGGA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis

1430	TTGATCTCATGAGCTTTCCTG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1431	TTGATAAGTCGCTCAATGGTG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1432	TTGAGTGTACCGGCGATGATA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1433	TTGAGTATGAAAGCTGCATTT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1434	TTGAGCTACATTGGAGGTGCT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus

				thunbergii,Amaranthus viridis
1435	TTGAGCGACTTATCAATATTA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1436	TTGACTTTACTGCCAAGCCTA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1437	TTGAAGAATTTGTGCGCCGTA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1438	TTCTGTTAGGACCAAAGCGGT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1439	TTCTGGGAGTGAGAGTATGGC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus

				palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1440	TTCTGATAAATCCAAATGCGA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1441	TTCTAATATTGATAAGTCGCT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1442	TTCGCATTTGGATTTATCAGA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1443	TTCCTGGTAAGATTAGGGCTG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1444	TTCCTAAAGGATCCAACAGTC	PPOX	9	Amaranthus albus,Amaranthus

				graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1445	TTCCTAAACCTAAGGGCCAGA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1446	TTCCCTTTTTTGATCTCATGA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1447	TTCCCAGATATAGCCATCGGA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1448	TTCCAAATGCAGCTTTCATAC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis

1449	TTCATCTTCACTCTTTTGTAA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1450	TTCATACATTGCAAGTAGCCT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1451	TTCAGGAAAGGAAGAATAATC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1452	TTCACCATTGAGCGACTTATC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1453	TTCAATCCACTGTCAACCGCC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus

				thunbergii,Amaranthus viridis
1454	TTATTCTTCCTTTCCTGAATA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1455	TTATGTTACCTACCGCCATTG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1456	TTATCAGAATTTTTCTGAGAT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1457	TTATCAATATTAGAAAGTGTC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1458	TTAGGTTTAGGAAGGCGGGGG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus

				palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1459	TTAGGACCCTCTTCCCAGATA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1460	TTAGGACCAAAGCGGTTGTCA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1461	TTAGGAAGGCGGGGGTCTCGA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1462	TTAGAGCAAAAGGGTGGTAGT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1463	TTACTGCCAAGCCTAGCAGCA	PPOX	9	Amaranthus albus,Amaranthus

				graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1464	TTACTATGGCGGTTGACAGTG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1465	TTACGGCGCACAAATTCTTCA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1466	TTACCTACCGCCATTGCTGCT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1467	TTACCAGGAAAGCTCATGAGA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis

1468	TTACAAAAGAGTGAAGATGAA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1469	TGTTGGATCCTTTAGGAAAGG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1470	TGTTAGGACCAAAGCGGTTGT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1471	TGTTACCTACCGCCATTGCTG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1472	TGTGCTTACTATGGCGGTTGA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus

				thunbergii,Amaranthus viridis
1473	TGTCAACCGCCATAGTAAGCA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1474	TGTATTCACCATTGAGCGACT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1475	TGTAGCTCAAGATCAAGGTCC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1476	TGTAGCACCTCCAATGTAGCT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1477	TGTACCGGCGATGATACTACC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus

				palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1478	TGGTCCTAACAGAAACCGGTC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1479	TGGTAGTATCATCGCCGGTAC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1480	TGGTAAGATTAGGGCTGGTCT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1481	TGGTAAATTAAGGCCTGTTCC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1482	TGGGAGTGAGAGTATGGCCAA	PPOX	9	Amaranthus albus,Amaranthus

				graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1483	TGGGAAGAGGGTCCTAATAGT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1484	TGGCGGTTGACAGTGGATTGA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1485	TGGCGGTAGGTAACATAATGA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1486	TGGCCCTTAGGTTTAGGAAGG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis

1487	TGGCCATACTCTCACTCCCAG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1488	TGGCAGTAAAGTCAAACTATC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1489	TGGATTTATCAGAATTTTTCT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1490	TGGAGTCCGATGGCTATATCT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1491	TGGAGGATTATTCTTCCTTTC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus

				thunbergii,Amaranthus viridis
1492	TGGACCTTAGAGCAAAAGGGT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1493	TGGACCGGTTTCTGTTAGGAC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1494	TGGACACTTTCTAATATTGAT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1495	TGGAATGGTAAATTAAGGCCT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1496	TGGAAAGGTCTGGACCTTAGA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus

				palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1497	TGGAAACTATTAGGACCCTCT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1498	TGCTTACTATGGCGGTTGACA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1499	TGCTGCTAGGCTTGGCAGTAA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1500	TGCTCTAAGGTCCAGACCTTT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1501	TGCTAGGCTTGGCAGTAAAGT	PPOX	9	Amaranthus albus,Amaranthus

				graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1502	TGCCTTTGGCCATACTCTCAC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1503	TGCCTTTCGCATTTGGATTTA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1504	TGCCAAGCCTAGCAGCAATGG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1505	TGCATTTGGAAAGGTCTGGAC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis

1506	TGCAGCTTTCATACTCAACTT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1507	TGCAAGTAGCCTGCTTCGTCC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1508	TGATCTTGAGCTACATTGGAG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1509	TGATCTCATGAGCTTTCCTGG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1510	TGATACTACCACCCTTTTGCT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus

				thunbergii,Amaranthus viridis
1511	TGATAAGTCGCTCAATGGTGA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1512	TGATAAATCCAAATGCGAAAG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1513	TGAGTGTACCGGCGATGATAC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1514	TGAGTATGAAAGCTGCATTTG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1515	TGAGCTTTCCTGGTAAGATTA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus

				palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1516	TGAGCTACATTGGAGGTGCTA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1517	TGAGCGACTTATCAATATTAG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1518	TGAGATCAAAAAAGGGAAGGT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1519	TGAGAGTATGGCCAAAGGCAA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1520	TGACTTTACTGCCAAGCCTAG	PPOX	9	Amaranthus albus,Amaranthus

				graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1521	TGACAACCGCTTTGGTCCTAA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1522	TGAAGAATTTGTGCGCCGTAA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1523	TGAAAGCTGCATTTGGAAAGG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1524	TCTTTCAATCCACTGTCAACC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis

1525	TCTTGAGCTACATTGGAGGTG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1526	TCTTACCAGGAAAGCTCATGA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1527	TCTGTTAGGACCAAAGCGGTT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1528	TCTGGGAGTGAGAGTATGGCC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1529	TCTGGGAAGAGGGTCCTAATA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus

				thunbergii,Amaranthus viridis
1530	TCTGGCCCTTAGGTTTAGGAA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1531	TCTGGACCTTAGAGCAAAAGG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1532	TCTGATAAATCCAAATGCGAA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1533	TCTCATGAGCTTTCCTGGTAA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1534	TCTCAGAAAAATTCTGATAAA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus

				palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1535	TCTAATATTGATAAGTCGCTC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1536	TCTAAGGTCCAGACCTTTCCA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1537	TCGCATTTGGATTTATCAGAA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1538	TCGAGACCCCCGCCTTCCTAA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1539	TCCTGTGCTTACTATGGCGGT	PPOX	9	Amaranthus albus,Amaranthus

				graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1540	TCCTGGTAAGATTAGGGCTGG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1541	TCCTAATAGTTTCCAACCCTC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1542	TCCTAACAGAAACCGGTCCAT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1543	TCCTAAAGGATCCAACAGTCT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis

1544	TCCTAAACCTAAGGGCCAGAC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1545	TCCGCAAGTTCATCTTCACTC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1546	TCCGATGGCTATATCTGGGAA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1547	TCCCTTTTTTGATCTCATGAG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1548	TCCCAGATATAGCCATCGGAC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus

				thunbergii,Amaranthus viridis
1549	TCCAGACCTTTCCAAATGCAG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1550	TCCACTGTCAACCGCCATAGT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1551	TCCAATGTAGCTCAAGATCAA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1552	TCCAACAGTCTGGCCCTTAGG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1553	TCCAAATGCGAAAGGCAGCCG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus

				palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1554	TCCAAATGCAGCTTTCATACT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1555	TCATTATGTTACCTACCGCCA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1556	TCATGAGCTTTCCTGGTAAGA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1557	TCATGAGATCAAAAAAGGGAA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1558	TCATGACAACCGCTTTGGTCC	PPOX	9	Amaranthus albus,Amaranthus

				graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1559	TCATCTTCACTCTTTTGTAAT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1560	TCATACATTGCAAGTAGCCTG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1561	TCAGGAAAGGAAGAATAATCC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1562	TCAGAATTTTTCTGAGATCCT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis

1563	TCAGAAAAATTCTGATAAATC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1564	TCACCATTGAGCGACTTATCA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1565	TCAATCCACTGTCAACCGCCA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1566	TCAACCGCCATAGTAAGCACA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1567	TCAAACACCCGATGGACCGGT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus

				thunbergii,Amaranthus viridis
1568	TCAAAAAAGGGAAGGTCCGTA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1569	TATTGATAAGTCGCTCAATGG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1570	TATTCTTCCTTTCCTGAATAG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1571	TATTCAGGAAAGGAAGAATAA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1572	TATTCACCATTGAGCGACTTA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus

				palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1573	TATTAGGACCCTCTTCCCAGA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1574	TATTACAAAAGAGTGAAGATG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1575	TATGTTACCTACCGCCATTGC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1576	TATGGCGGTTGACAGTGGATT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1577	TATGAAAGCTGCATTTGGAAA	PPOX	9	Amaranthus albus,Amaranthus

				graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1578	TATCTGGGAAGAGGGTCCTAA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1579	TATCATCGCCGGTACACTCAA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1580	TATCAGAATTTTTCTGAGATC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1581	TATCAATATTAGAAAGTGTCC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis

1582	TATCAAACACCCGATGGACCG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1583	TATATCTGGGAAGAGGGTCCT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1584	TATAGCCATCGGACTCCATGG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1585	TAGTTTGACTTTACTGCCAAG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1586	TAGTATCATCGCCGGTACACT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus

				thunbergii,Amaranthus viridis
1587	TAGGTTTAGGAAGGCGGGGGT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1588	TAGGCTTGGCAGTAAAGTCAA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1589	TAGGACCTTGATCTTGAGCTA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1590	TAGGACCCTCTTCCCAGATAT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1591	TAGGACCAAAGCGGTTGTCAT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus

				palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1592	TAGGAAGGCGGGGGTCTCGAG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1593	TAGCTCAAGATCAAGGTCCTA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1594	TAGCCATCGGACTCCATGGTA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1595	TAGCAGCAATGGCGGTAGGTA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1596	TAGCACCTCCAATGTAGCTCA	PPOX	9	Amaranthus albus,Amaranthus

				graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1597	TAGAGCAAAAGGGTGGTAGTA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1598	TACTGCCAAGCCTAGCAGCAA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1599	TACTATGGCGGTTGACAGTGG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1600	TACTACCACCCTTTTGCTCTA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis

1601	TACGGCGCACAAATTCTTCAA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1602	TACGGACCTTCCCTTTTTTGA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1603	TACCTACCGCCATTGCTGCTA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1604	TACCGGCGATGATACTACCAC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1605	TACCGCCATTGCTGCTAGGCT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus

				thunbergii,Amaranthus viridis
1606	TACCATGGAGTCCGATGGCTA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1607	TACCAGGAAAGCTCATGAGAT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1608	TACCACCCTTTTGCTCTAAGG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1609	TACATTGCAAGTAGCCTGCTT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1610	TACAAAAGAGTGAAGATGAAC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus

				palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1611	TAATCTTACCAGGAAAGCTCA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1612	TAATATTGATAAGTCGCTCAA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1613	TAAGTCGCTCAATGGTGAATA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1614	TAAGGTCCAGACCTTTCCAAA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1615	TAAGGGCCAGACTGTTGGATC	PPOX	9	Amaranthus albus,Amaranthus

				graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1616	TAAGATTAGGGCTGGTCTTGG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1617	TAACAGAAACCGGTCCATCGG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1618	TAAATTAAGGCCTGTTCCTTC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1619	TAAATCCAAATGCGAAAGGCA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis

1620	TAAAGGATCCAACAGTCTGGC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1621	TAAACCTAAGGGCCAGACTGT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1622	GTTTGACTTTACTGCCAAGCC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1623	GTTTCTGTTAGGACCAAAGCG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1624	GTTTAGGAAGGCGGGGGTCTC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus

				thunbergii,Amaranthus viridis
1625	GTTGGAAACTATTAGGACCCT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1626	GTTGAGTATGAAAGCTGCATT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1627	GTTGAAGAATTTGTGCGCCGT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1628	GTTCTGGGAGTGAGAGTATGG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1629	GTTCATCTTCACTCTTTTGTA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus

				palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1630	GTTAGGACCAAAGCGGTTGTC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1631	GTTACCTACCGCCATTGCTGC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1632	GTGTACCGGCGATGATACTAC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1633	GTGGTAGTATCATCGCCGGTA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1634	GTGGAGGATTATTCTTCCTTT	PPOX	9	Amaranthus albus,Amaranthus

				graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1635	GTGCTTACTATGGCGGTTGAC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1636	GTGAGAGTATGGCCAAAGGCA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1637	GTCTGGCCCTTAGGTTTAGGA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1638	GTCTGGACCTTAGAGCAAAAG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis

1639	GTCCTAATAGTTTCCAACCCT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1640	GTCCTAACAGAAACCGGTCCA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1641	GTCCGATGGCTATATCTGGGA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1642	GTCCAGACCTTTCCAAATGCA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1643	GTCATGACAACCGCTTTGGTC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus

				thunbergii,Amaranthus viridis
1644	GTCAACCGCCATAGTAAGCAC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1645	GTATTCACCATTGAGCGACTT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1646	GTATGAAAGCTGCATTTGGAA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1647	GTATCATCGCCGGTACACTCA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1648	GTAGTATCATCGCCGGTACAC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus

				palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1649	GTAGCTCAAGATCAAGGTCCT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1650	GTAGCACCTCCAATGTAGCTC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1651	GTACCGGCGATGATACTACCA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1652	GTAAGATTAGGGCTGGTCTTG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1653	GTAAATTAAGGCCTGTTCCTT	PPOX	9	Amaranthus albus,Amaranthus

				graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1654	GGTTTCTGTTAGGACCAAAGC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1655	GGTTTAGGAAGGCGGGGGTCT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1656	GGTTGGAAACTATTAGGACCC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1657	GGTTGACAGTGGATTGAAAGA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis

1658	GGTGGTAGTATCATCGCCGGT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1659	GGTGGAGGATTATTCTTCCTT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1660	GGTCTGGACCTTAGAGCAAAA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1661	GGTCCTAATAGTTTCCAACCC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1662	GGTCCTAACAGAAACCGGTCC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus

				thunbergii,Amaranthus viridis
1663	GGTCCAGACCTTTCCAAATGC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1664	GGTAGTATCATCGCCGGTACA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1665	GGTAAGATTAGGGCTGGTCTT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1666	GGTAAATTAAGGCCTGTTCCT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1667	GGGTTGGAAACTATTAGGACC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus

				palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1668	GGGTGGTAGTATCATCGCCGG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1669	GGGTCCTAATAGTTTCCAACC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1670	GGGCCAGACTGTTGGATCCTT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1671	GGGAGTGAGAGTATGGCCAAA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1672	GGGAAGAGGGTCCTAATAGTT	PPOX	9	Amaranthus albus,Amaranthus

				graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1673	GGCTTGGCAGTAAAGTCAAAC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1674	GGCTGCCTTTCGCATTTGGAT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1675	GGCTATATCTGGGAAGAGGGT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1676	GGCTACTTGCAATGTATGAAG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis

1677	GGCGGTTGACAGTGGATTGAA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1678	GGCGGTAGGTAACATAATGAG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1679	GGCGATGATACTACCACCCTT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1680	GGCCCTTAGGTTTAGGAAGGC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1681	GGCCATACTCTCACTCCCAGA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus

				thunbergii,Amaranthus viridis
1682	GGCCAGACTGTTGGATCCTTT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1683	GGATTTATCAGAATTTTTCTG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1684	GGATTATTCTTCCTTTCCTGA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1685	GGATCTCAGAAAAATTCTGAT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1686	GGATCCAACAGTCTGGCCCTT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus

				palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1687	GGAGTGAGAGTATGGCCAAAG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1688	GGAGTCCGATGGCTATATCTG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1689	GGAGGATTATTCTTCCTTTCC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1690	GGACGAAGCAGGCTACTTGCA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1691	GGACCTTGATCTTGAGCTACA	PPOX	9	Amaranthus albus,Amaranthus

				graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1692	GGACCTTCCCTTTTTTGATCT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1693	GGACCTTAGAGCAAAAGGGTG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1694	GGACCGGTTTCTGTTAGGACC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1695	GGACCCTCTTCCCAGATATAG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis

1696	GGACCAAAGCGGTTGTCATGA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1697	GGACACTTTCTAATATTGATA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1698	GGAATGGTAAATTAAGGCCTG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1699	GGAAGAGGGTCCTAATAGTTT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1700	GGAACAGGCCTTAATTTACCA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus

				thunbergii,Amaranthus viridis
1701	GGAAAGGTCTGGACCTTAGAG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1702	GGAAAGGAAGAATAATCCTCC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1703	GGAAAGCTCATGAGATCAAAA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1704	GGAAACTATTAGGACCCTCTT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1705	GCTTTGGTCCTAACAGAAACC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus

				palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1706	GCTTTCCTGGTAAGATTAGGG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1707	GCTTGGCAGTAAAGTCAAACT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1708	GCTTACTATGGCGGTTGACAG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1709	GCTGCTAGGCTTGGCAGTAAA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1710	GCTGCCTTTCGCATTTGGATT	PPOX	9	Amaranthus albus,Amaranthus

				graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1711	GCTGCATTTGGAAAGGTCTGG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1712	GCTCTAAGGTCCAGACCTTTC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1713	GCTCATGAGATCAAAAAAGGG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1714	GCTATATCTGGGAAGAGGGTC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis

1715	GCTAGGCTTGGCAGTAAAGTC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1716	GCTACTTGCAATGTATGAAGG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1717	GCTACATTGGAGGTGCTACAA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1718	GCGGTTGACAGTGGATTGAAA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1719	GCGATGATACTACCACCCTTT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus

				thunbergii,Amaranthus viridis
1720	GCGACTTATCAATATTAGAAA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1721	GCCTTTGGCCATACTCTCACT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1722	GCCTTTCGCATTTGGATTTAT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1723	GCCTTCCTAAACCTAAGGGCC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1724	GCCTAGCAGCAATGGCGGTAG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus

				palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1725	GCCCTTAGGTTTAGGAAGGCG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1726	GCCCTAATCTTACCAGGAAAG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1727	GCCATTGCTGCTAGGCTTGGC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1728	GCCATCGGACTCCATGGTAGT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1729	GCCATACTCTCACTCCCAGAA	PPOX	9	Amaranthus albus,Amaranthus

				graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1730	GCCAGACTGTTGGATCCTTTA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1731	GCCAAGCCTAGCAGCAATGGC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1732	GCATTTGGATTTATCAGAATT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1733	GCATTTGGAAAGGTCTGGACC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis

1734	GCAGGCTACTTGCAATGTATG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1735	GCAGCTTTCATACTCAACTTT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1736	GCAGCAATGGCGGTAGGTAAC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1737	GCACCTCCAATGTAGCTCAAG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1738	GCACCAAGACCAGCCCTAATC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus

				thunbergii,Amaranthus viridis
1739	GCAATGGCGGTAGGTAACATA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1740	GCAAGTTCATCTTCACTCTTT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1741	GCAAAAGGGTGGTAGTATCAT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1742	GATTTATCAGAATTTTTCTGA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1743	GATTATTCTTCCTTTCCTGAA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus

				palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1744	GATTAGGGCTGGTCTTGGTGC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1745	GATTACGGCGCACAAATTCTT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1746	GATGTTGCTGCAGATTCTCTT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1747	GATGGACCGGTTTCTGTTAGG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1748	GATGATACTACCACCCTTTTG	PPOX	9	Amaranthus albus,Amaranthus

				graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1749	GATCTTGAGCTACATTGGAGG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1750	GATCTCATGAGCTTTCCTGGT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1751	GATCTCAGAAAAATTCTGATA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1752	GATCCTGTGCTTACTATGGCG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis

1753	GATCCAACAGTCTGGCCCTTA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1754	GATCAAAAAAGGGAAGGTCCG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1755	GATATAGCCATCGGACTCCAT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1756	GATAGTTTGACTTTACTGCCA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1757	GATACTACCACCCTTTTGCTC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus

				thunbergii,Amaranthus viridis
1758	GATAAGTCGCTCAATGGTGAA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1759	GATAAATCCAAATGCGAAAGG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1760	GAGTGTACCGGCGATGATACT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1761	GAGTGAGAGTATGGCCAAAGG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1762	GAGTGAAGATGAACTTGCGGA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus

				palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1763	GAGTCCGATGGCTATATCTGG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1764	GAGTATGAAAGCTGCATTTGG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1765	GAGGGTTGGAAACTATTAGGA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1766	GAGGGTCCTAATAGTTTCCAA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1767	GAGGATTATTCTTCCTTTCCT	PPOX	9	Amaranthus albus,Amaranthus

				graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1768	GAGCTTTCCTGGTAAGATTAG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1769	GAGCTACATTGGAGGTGCTAC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1770	GAGCGACTTATCAATATTAGA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1771	GAGCAAAAGGGTGGTAGTATC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis

1772	GAGATTACGGCGCACAAATTC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1773	GAGATCAAAAAAGGGAAGGTC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1774	GAGAGTATGGCCAAAGGCAAT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1775	GAGACCCCCGCCTTCCTAAAC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1776	GACTTTACTGCCAAGCCTAGC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus

				thunbergii,Amaranthus viridis
1777	GACTTATCAATATTAGAAAGT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1778	GACTGTTGGATCCTTTAGGAA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1779	GACGAAGCAGGCTACTTGCAA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1780	GACCTTTCCAAATGCAGCTTT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1781	GACCTTGATCTTGAGCTACAT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus

				palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1782	GACCTTCCCTTTTTTGATCTC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1783	GACCTTAGAGCAAAAGGGTGG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1784	GACCGGTTTCTGTTAGGACCA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1785	GACCCTCTTCCCAGATATAGC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1786	GACCCCCGCCTTCCTAAACCT	PPOX	9	Amaranthus albus,Amaranthus

				graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1787	GACCAGCCCTAATCTTACCAG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1788	GACCAAAGCGGTTGTCATGAC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1789	GACACTTTCTAATATTGATAA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1790	GACAACCGCTTTGGTCCTAAC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis

1791	GAATTTGTGCGCCGTAATCTC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1792	GAATGGTAAATTAAGGCCTGT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1793	GAAGGAACAGGCCTTAATTTA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1794	GAAGCAGGCTACTTGCAATGT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1795	GAAGAGGGTCCTAATAGTTTC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus

				thunbergii,Amaranthus viridis
1796	GAAGAATTTGTGCGCCGTAAT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1797	GAACAGGCCTTAATTTACCAT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1798	GAAAGGTCTGGACCTTAGAGC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1799	GAAAGGAAGAATAATCCTCCA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1800	GAAAGCTGCATTTGGAAAGGT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus

				palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1801	GAAAGCTCATGAGATCAAAAA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1802	GAAACTATTAGGACCCTCTTC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1803	GAAACCGGTCCATCGGGTGTT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1804	GAAAAATTCTGATAAATCCAA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1805	CTTTTTTGATCTCATGAGCTT	PPOX	9	Amaranthus albus,Amaranthus

				graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1806	CTTTTGCTCTAAGGTCCAGAC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1807	CTTTGGTCCTAACAGAAACCG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1808	CTTTGGCCATACTCTCACTCC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1809	CTTTCTAATATTGATAAGTCG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis

1810	CTTTCGCATTTGGATTTATCA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1811	CTTTCCTGGTAAGATTAGGGC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1812	CTTTCCTAAAGGATCCAACAG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1813	CTTTCCAAATGCAGCTTTCAT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1814	CTTTCAATCCACTGTCAACCG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus

				thunbergii,Amaranthus viridis
1815	CTTTACTGCCAAGCCTAGCAG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1816	CTTGGCAGTAAAGTCAAACTA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1817	CTTGATCTTGAGCTACATTGG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1818	CTTGAGCTACATTGGAGGTGC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1819	CTTCCTAAACCTAAGGGCCAG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus

				palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1820	CTTCCCTTTTTTGATCTCATG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1821	CTTCATACATTGCAAGTAGCC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1822	CTTATCAATATTAGAAAGTGT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1823	CTTAGGTTTAGGAAGGCGGGG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1824	CTTAGAGCAAAAGGGTGGTAG	PPOX	9	Amaranthus albus,Amaranthus

				graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1825	CTTACTATGGCGGTTGACAGT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1826	CTTACCAGGAAAGCTCATGAG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1827	CTGTTGGATCCTTTAGGAAAG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1828	CTGTTAGGACCAAAGCGGTTG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis

1829	CTGTGCTTACTATGGCGGTTG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1830	CTGTCAACCGCCATAGTAAGC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1831	CTGGTAAGATTAGGGCTGGTC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1832	CTGGGAGTGAGAGTATGGCCA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1833	CTGGGAAGAGGGTCCTAATAG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus

				thunbergii,Amaranthus viridis
1834	CTGGCCCTTAGGTTTAGGAAG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1835	CTGGACCTTAGAGCAAAAGGG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1836	CTGCTAGGCTTGGCAGTAAAG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1837	CTGCCTTTCGCATTTGGATTT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1838	CTGCCAAGCCTAGCAGCAATG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus

				palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1839	CTGCATTTGGAAAGGTCTGGA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1840	CTGATAAATCCAAATGCGAAA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1841	CTCTAAGGTCCAGACCTTTCC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1842	CTCGAGACCCCCGCCTTCCTA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1843	CTCCAATGTAGCTCAAGATCA	PPOX	9	Amaranthus albus,Amaranthus

				graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1844	CTCATTATGTTACCTACCGCC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1845	CTCATGAGCTTTCCTGGTAAG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1846	CTCATGAGATCAAAAAAGGGA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1847	CTCAGAAAAATTCTGATAAAT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis

1848	CTATTCAGGAAAGGAAGAATA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1849	CTATTAGGACCCTCTTCCCAG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1850	CTATGGCGGTTGACAGTGGAT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1851	CTATATCTGGGAAGAGGGTCC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1852	CTAGGCTTGGCAGTAAAGTCA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus

				thunbergii,Amaranthus viridis
1853	CTAGCAGCAATGGCGGTAGGT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1854	CTACGGACCTTCCCTTTTTTG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1855	CTACCGCCATTGCTGCTAGGC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1856	CTACCATGGAGTCCGATGGCT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1857	CTACCACCCTTTTGCTCTAAG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus

				palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1858	CTAATCTTACCAGGAAAGCTC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1859	CTAATATTGATAAGTCGCTCA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1860	CTAAGGTCCAGACCTTTCCAA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1861	CTAAGGGCCAGACTGTTGGAT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1862	CTAACAGAAACCGGTCCATCG	PPOX	9	Amaranthus albus,Amaranthus

				graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1863	CTAAAGGATCCAACAGTCTGG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1864	CTAAACCTAAGGGCCAGACTG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1865	CGGTTTCTGTTAGGACCAAAG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1866	CGGTTGACAGTGGATTGAAAG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis

1867	CGGTCCATCGGGTGTTTGATA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1868	CGGCTGCCTTTCGCATTTGGA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1869	CGGCGATGATACTACCACCCT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1870	CGGACCTTCCCTTTTTTGATC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1871	CGCTTTGGTCCTAACAGAAAC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus

				thunbergii,Amaranthus viridis
1872	CGCCTTCCTAAACCTAAGGGC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1873	CGCCATTGCTGCTAGGCTTGG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1874	CGCCATAGTAAGCACAGGATC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1875	CGCATTTGGATTTATCAGAAT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1876	CGCAAGTTCATCTTCACTCTT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus

				palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1877	CGATGGACCGGTTTCTGTTAG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1878	CGATGATACTACCACCCTTTT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1879	CGAGATTACGGCGCACAAATT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1880	CGAGACCCCCGCCTTCCTAAA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1881	CGACTTATCAATATTAGAAAG	PPOX	9	Amaranthus albus,Amaranthus

				graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1882	CGAAGCAGGCTACTTGCAATG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1883	CCTTTTTTGATCTCATGAGCT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1884	CCTTTTGCTCTAAGGTCCAGA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1885	CCTTTGGCCATACTCTCACTC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis

1886	CCTTTCGCATTTGGATTTATC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1887	CCTTTCCTAAAGGATCCAACA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1888	CCTTTCCAAATGCAGCTTTCA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1889	CCTTGATCTTGAGCTACATTG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1890	CCTTCCTAAACCTAAGGGCCA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus

				thunbergii,Amaranthus viridis
1891	CCTTCCCTTTTTTGATCTCAT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1892	CCTTCATACATTGCAAGTAGC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1893	CCTTAGGTTTAGGAAGGCGGG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1894	CCTTAGAGCAAAAGGGTGGTA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1895	CCTGTGCTTACTATGGCGGTT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus

				palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1896	CCTGGTAAGATTAGGGCTGGT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1897	CCTCGAGACCCCCGCCTTCCT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1898	CCTCCAATGTAGCTCAAGATC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1899	CCTAGCAGCAATGGCGGTAGG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1900	CCTACGGACCTTCCCTTTTTT	PPOX	9	Amaranthus albus,Amaranthus

				graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1901	CCTACCGCCATTGCTGCTAGG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1902	CCTAATCTTACCAGGAAAGCT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1903	CCTAAGGGCCAGACTGTTGGA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1904	CCTAACAGAAACCGGTCCATC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis

1905	CCTAAAGGATCCAACAGTCTG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1906	CCTAAACCTAAGGGCCAGACT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1907	CCGGTTTCTGTTAGGACCAAA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1908	CCGGTCCATCGGGTGTTTGAT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1909	CCGGCGATGATACTACCACCC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus

				thunbergii,Amaranthus viridis
1910	CCGCTTTGGTCCTAACAGAAA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1911	CCGCCTTCCTAAACCTAAGGG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1912	CCGCCATTGCTGCTAGGCTTG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1913	CCGCCATAGTAAGCACAGGAT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1914	CCGCAAGTTCATCTTCACTCT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus

				palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1915	CCGATGGACCGGTTTCTGTTA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1916	CCGAGATTACGGCGCACAAAT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1917	CCCTTTTTTGATCTCATGAGC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1918	CCCTTTTGCTCTAAGGTCCAG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1919	CCCTTAGGTTTAGGAAGGCGG	PPOX	9	Amaranthus albus,Amaranthus

				graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1920	CCCTAATCTTACCAGGAAAGC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1921	CCCGCCTTCCTAAACCTAAGG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1922	CCCGATGGACCGGTTTCTGTT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1923	CCCCGCCTTCCTAAACCTAAG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis

1924	CCCCCGCCTTCCTAAACCTAA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1925	CCCAGATATAGCCATCGGACT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1926	CCATTGCTGCTAGGCTTGGCA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1927	CCATTGAGCGACTTATCAATA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1928	CCATGGAGTCCGATGGCTATA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus

				thunbergii,Amaranthus viridis
1929	CCATACTCTCACTCCCAGAAC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1930	CCAGTCGCAGCAGTGTCCCTT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1931	CCAGGAAAGCTCATGAGATCA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1932	CCAGCCCTAATCTTACCAGGA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1933	CCAGATATAGCCATCGGACTC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus

				palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1934	CCAGACTGTTGGATCCTTTAG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1935	CCAGACCTTTCCAAATGCAGC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1936	CCACTGTCAACCGCCATAGTA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1937	CCACCCTTTTGCTCTAAGGTC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1938	CCAATGTAGCTCAAGATCAAG	PPOX	9	Amaranthus albus,Amaranthus

				graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1939	CCAAGCCTAGCAGCAATGGCG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1940	CCAAGACCAGCCCTAATCTTA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1941	CCAACAGTCTGGCCCTTAGGT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1942	CCAAATGCAGCTTTCATACTC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis

1943	CCAAAGCGGTTGTCATGACTG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1944	CATTTGGATTTATCAGAATTT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1945	CATTTGGAAAGGTCTGGACCT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1946	CATTGCTGCTAGGCTTGGCAG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1947	CATTGCAAGTAGCCTGCTTCG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus

				thunbergii,Amaranthus viridis
1948	CATTGAGCGACTTATCAATAT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1949	CATTATGTTACCTACCGCCAT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1950	CATGGAGTCCGATGGCTATAT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1951	CATGAGCTTTCCTGGTAAGAT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1952	CATGAGATCAAAAAAGGGAAG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus

				palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1953	CATGACAACCGCTTTGGTCCT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1954	CATCTTCACTCTTTTGTAATA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1955	CATACATTGCAAGTAGCCTGC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1956	CAGTCTGGCCCTTAGGTTTAG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1957	CAGTCATGACAACCGCTTTGG	PPOX	9	Amaranthus albus,Amaranthus

				graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1958	CAGGCTACTTGCAATGTATGA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1959	CAGGCCTTAATTTACCATTCC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1960	CAGGAAAGGAAGAATAATCCT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1961	CAGGAAAGCTCATGAGATCAA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis

1962	CAGCTTTCATACTCAACTTTG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1963	CAGCCCTAATCTTACCAGGAA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1964	CAGCAATGGCGGTAGGTAACA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1965	CAGATATAGCCATCGGACTCC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1966	CAGACTGTTGGATCCTTTAGG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus

				thunbergii,Amaranthus viridis
1967	CAGACCTTTCCAAATGCAGCT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1968	CAGAATTTTTCTGAGATCCTT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1969	CAGAAACCGGTCCATCGGGTG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1970	CAGAAAAATTCTGATAAATCC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1971	CACTTTCTAATATTGATAAGT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus

				palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1972	CACTGTCAACCGCCATAGTAA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1973	CACCTCCAATGTAGCTCAAGA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1974	CACCCTTTTGCTCTAAGGTCC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1975	CACCCGATGGACCGGTTTCTG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1976	CACCATTGAGCGACTTATCAA	PPOX	9	Amaranthus albus,Amaranthus

				graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1977	CACCAAGACCAGCCCTAATCT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1978	CAATGTAGCTCAAGATCAAGG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1979	CAATGGCGGTAGGTAACATAA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1980	CAATCCACTGTCAACCGCCAT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis

1981	CAAGTTCATCTTCACTCTTTT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1982	CAAGCCTAGCAGCAATGGCGG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1983	CAAGACCAGCCCTAATCTTAC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1984	CAACCGCTTTGGTCCTAACAG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1985	CAACCGCCATAGTAAGCACAG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus

				thunbergii,Amaranthus viridis
1986	CAACAGTCTGGCCCTTAGGTT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1987	CAAATGCAGCTTTCATACTCA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1988	CAAAGTTGAGTATGAAAGCTG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1989	CAAAGCGGTTGTCATGACTGT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1990	CAAACACCCGATGGACCGGTT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus

				palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1991	CAAAAGGGTGGTAGTATCATC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1992	CAAAAGAGTGAAGATGAACTT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1993	CAAAAAAGGGAAGGTCCGTAG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1994	ATTTGTGCGCCGTAATCTCGG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1995	ATTTGGATTTATCAGAATTTT	PPOX	9	Amaranthus albus,Amaranthus

				graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1996	ATTTGGAAAGGTCTGGACCTT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1997	ATTTATCAGAATTTTTCTGAG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1998	ATTGCTGCTAGGCTTGGCAGT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
1999	ATTGCCTTTGGCCATACTCTC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis

2000	ATTGCAAGTAGCCTGCTTCGT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2001	ATTGATAAGTCGCTCAATGGT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2002	ATTGAGCGACTTATCAATATT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2003	ATTCTGATAAATCCAAATGCG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2004	ATTCAGGAAAGGAAGAATAAT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus

				thunbergii,Amaranthus viridis
2005	ATTCACCATTGAGCGACTTAT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2006	ATTATTCTTCCTTTCCTGAAT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2007	ATTATGTTACCTACCGCCATT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2008	ATTAGGACCCTCTTCCCAGAT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2009	ATTACGGCGCACAAATTCTTC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus

				palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2010	ATTACAAAAGAGTGAAGATGA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2011	ATGTTACCTACCGCCATTGCT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2012	ATGTAGCTCAAGATCAAGGTC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2013	ATGGTAAATTAAGGCCTGTTC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2014	ATGGCGGTTGACAGTGGATTG	PPOX	9	Amaranthus albus,Amaranthus

				graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2015	ATGGCGGTAGGTAACATAATG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2016	ATGGAGTCCGATGGCTATATC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2017	ATGGACCGGTTTCTGTTAGGA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2018	ATGCAGCTTTCATACTCAACT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis

2019	ATGATACTACCACCCTTTTGC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2020	ATGAGCTTTCCTGGTAAGATT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2021	ATGAGATCAAAAAAGGGAAGG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2022	ATGACAACCGCTTTGGTCCTA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2023	ATGAAAGCTGCATTTGGAAAG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus

				thunbergii,Amaranthus viridis
2024	ATCTTGAGCTACATTGGAGGT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2025	ATCTTCACTCTTTTGTAATAT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2026	ATCTTACCAGGAAAGCTCATG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2027	ATCTGGGAAGAGGGTCCTAAT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2028	ATCTCATGAGCTTTCCTGGTA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus

				palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2029	ATCTCAGAAAAATTCTGATAA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2030	ATCCTGTGCTTACTATGGCGG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2031	ATCCACTGTCAACCGCCATAG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2032	ATCCAACAGTCTGGCCCTTAG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2033	ATCCAAATGCGAAAGGCAGCC	PPOX	9	Amaranthus albus,Amaranthus

				graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2034	ATCATCGCCGGTACACTCAAA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2035	ATCAGAATTTTTCTGAGATCC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2036	ATCAATATTAGAAAGTGTCCA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2037	ATCAAACACCCGATGGACCGG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis

2038	ATCAAAAAAGGGAAGGTCCGT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2039	ATATTGATAAGTCGCTCAATG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2040	ATATTACAAAAGAGTGAAGAT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2041	ATATCTGGGAAGAGGGTCCTA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2042	ATATAGCCATCGGACTCCATG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus

				thunbergii,Amaranthus viridis
2043	ATAGTTTGACTTTACTGCCAA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2044	ATAGCCATCGGACTCCATGGT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2045	ATACTACCACCCTTTTGCTCT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2046	ATACATTGCAAGTAGCCTGCT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2047	ATAAGTCGCTCAATGGTGAAT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus

				palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2048	ATAAATCCAAATGCGAAAGGC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2049	AGTTTGACTTTACTGCCAAGC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2050	AGTTGAGTATGAAAGCTGCAT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2051	AGTTCATCTTCACTCTTTTGT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2052	AGTGTACCGGCGATGATACTA	PPOX	9	Amaranthus albus,Amaranthus

				graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2053	AGTGAGAGTATGGCCAAAGGC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2054	AGTCTGGCCCTTAGGTTTAGG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2055	AGTCGCTCAATGGTGAATACA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2056	AGTCCGATGGCTATATCTGGG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis

2057	AGTCATGACAACCGCTTTGGT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2058	AGTATGAAAGCTGCATTTGGA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2059	AGTATCATCGCCGGTACACTC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2060	AGGTTTAGGAAGGCGGGGGTC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2061	AGGTCTGGACCTTAGAGCAAA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus

				thunbergii,Amaranthus viridis
2062	AGGTCCAGACCTTTCCAAATG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2063	AGGGTTGGAAACTATTAGGAC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2064	AGGGTGGTAGTATCATCGCCG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2065	AGGGTCCTAATAGTTTCCAAC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2066	AGGGCCAGACTGTTGGATCCT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus

				palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2067	AGGCTTGGCAGTAAAGTCAAA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2068	AGGCTACTTGCAATGTATGAA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2069	AGGCCTTAATTTACCATTCCA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2070	AGGATTATTCTTCCTTTCCTG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2071	AGGATCTCAGAAAAATTCTGA	PPOX	9	Amaranthus albus,Amaranthus

				graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2072	AGGATCCAACAGTCTGGCCCT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2073	AGGACCTTGATCTTGAGCTAC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2074	AGGACCCTCTTCCCAGATATA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2075	AGGACCAAAGCGGTTGTCATG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis

2076	AGGAAGGCGGGGGTCTCGAGG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2077	AGGAACAGGCCTTAATTTACC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2078	AGGAAAGGAAGAATAATCCTC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2079	AGGAAAGCTCATGAGATCAAA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2080	AGCTTTCCTGGTAAGATTAGG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus

				thunbergii,Amaranthus viridis
2081	AGCTGCATTTGGAAAGGTCTG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2082	AGCTCATGAGATCAAAAAAGG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2083	AGCTACATTGGAGGTGCTACA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2084	AGCGACTTATCAATATTAGAA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2085	AGCCTAGCAGCAATGGCGGTA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus

				palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2086	AGCCCTAATCTTACCAGGAAA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2087	AGCCATCGGACTCCATGGTAG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2088	AGCAGGCTACTTGCAATGTAT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2089	AGCAGCAATGGCGGTAGGTAA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2090	AGCACCTCCAATGTAGCTCAA	PPOX	9	Amaranthus albus,Amaranthus

				graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2091	AGCAATGGCGGTAGGTAACAT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2092	AGCAAAAGGGTGGTAGTATCA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2093	AGATTAGGGCTGGTCTTGGTG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2094	AGATTACGGCGCACAAATTCT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis

2095	AGATCAAAAAAGGGAAGGTCC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2096	AGATATAGCCATCGGACTCCA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2097	AGAGTGAAGATGAACTTGCGG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2098	AGAGGGTCCTAATAGTTTCCA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2099	AGAGCAAAAGGGTGGTAGTAT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus

				thunbergii,Amaranthus viridis
2100	AGACTGTTGGATCCTTTAGGA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2101	AGACCTTTCCAAATGCAGCTT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2102	AGACCCCCGCCTTCCTAAACC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2103	AGACCAGCCCTAATCTTACCA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2104	AGAATTTGTGCGCCGTAATCT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus

				palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2105	AGAAACCGGTCCATCGGGTGT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2106	AGAAAAATTCTGATAAATCCA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2107	ACTTTCTAATATTGATAAGTC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2108	ACTTTACTGCCAAGCCTAGCA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2109	ACTTATCAATATTAGAAAGTG	PPOX	9	Amaranthus albus,Amaranthus

				graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2110	ACTGTTGGATCCTTTAGGAAA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2111	ACTGTCAACCGCCATAGTAAG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2112	ACTGCCAAGCCTAGCAGCAAT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2113	ACTATTAGGACCCTCTTCCCA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis

2114	ACTATGGCGGTTGACAGTGGA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2115	ACTACCATGGAGTCCGATGGC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2116	ACTACCACCCTTTTGCTCTAA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2117	ACGGCGCACAAATTCTTCAAC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2118	ACGGACCTTCCCTTTTTTGAT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus

				thunbergii,Amaranthus viridis
2119	ACGAAGCAGGCTACTTGCAAT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2120	ACCTTTCCAAATGCAGCTTTC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2121	ACCTTGATCTTGAGCTACATT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2122	ACCTTCCCTTTTTTGATCTCA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2123	ACCTTAGAGCAAAAGGGTGGT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus

				palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2124	ACCTCCAATGTAGCTCAAGAT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2125	ACCTACCGCCATTGCTGCTAG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2126	ACCTAAGGGCCAGACTGTTGG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2127	ACCGGTTTCTGTTAGGACCAA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2128	ACCGGTCCATCGGGTGTTTGA	PPOX	9	Amaranthus albus,Amaranthus

				graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2129	ACCGGCGATGATACTACCACC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2130	ACCGCTTTGGTCCTAACAGAA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2131	ACCGCCATTGCTGCTAGGCTT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2132	ACCGCCATAGTAAGCACAGGA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis

2133	ACCCTTTTGCTCTAAGGTCCA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2134	ACCCTCTTCCCAGATATAGCC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2135	ACCCGATGGACCGGTTTCTGT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2136	ACCCCCGCCTTCCTAAACCTA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2137	ACCATTGAGCGACTTATCAAT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus

				thunbergii,Amaranthus viridis
2138	ACCATGGAGTCCGATGGCTAT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2139	ACCAGGAAAGCTCATGAGATC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2140	ACCAGCCCTAATCTTACCAGG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2141	ACCACCCTTTTGCTCTAAGGT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2142	ACCAAGACCAGCCCTAATCTT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus

				palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2143	ACCAAAGCGGTTGTCATGACT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2144	ACATTGCAAGTAGCCTGCTTC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2145	ACAGTCTGGCCCTTAGGTTTA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2146	ACAGTCATGACAACCGCTTTG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2147	ACAGGCCTTAATTTACCATTC	PPOX	9	Amaranthus albus,Amaranthus

				graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2148	ACAGAAACCGGTCCATCGGGT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2149	ACACTTTCTAATATTGATAAG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2150	ACACCCGATGGACCGGTTTCT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2151	ACAACCGCTTTGGTCCTAACA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis

2152	ACAAAAGAGTGAAGATGAACT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2153	AATTTGTGCGCCGTAATCTCG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2154	AATTCTGATAAATCCAAATGC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2155	AATGTAGCTCAAGATCAAGGT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2156	AATGGTAAATTAAGGCCTGTT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus

				thunbergii,Amaranthus viridis
2157	AATGGCGGTAGGTAACATAAT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2158	AATGCAGCTTTCATACTCAAC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2159	AATCTTACCAGGAAAGCTCAT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2160	AATCCACTGTCAACCGCCATA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2161	AATCCAAATGCGAAAGGCAGC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus

				palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2162	AATATTGATAAGTCGCTCAAT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2163	AAGTTGAGTATGAAAGCTGCA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2164	AAGTTCATCTTCACTCTTTTG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2165	AAGTCGCTCAATGGTGAATAC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2166	AAGGTCTGGACCTTAGAGCAA	PPOX	9	Amaranthus albus,Amaranthus

				graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2167	AAGGTCCAGACCTTTCCAAAT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2168	AAGGGTGGTAGTATCATCGCC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2169	AAGGGCCAGACTGTTGGATCC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2170	AAGGGACACTGCTGCGACTGG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis

2171	AAGGATCTCAGAAAAATTCTG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2172	AAGGATCCAACAGTCTGGCCC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2173	AAGGAAGAATAATCCTCCACC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2174	AAGGAACAGGCCTTAATTTAC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2175	AAGCTGCATTTGGAAAGGTCT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus

				thunbergii,Amaranthus viridis
2176	AAGCTCATGAGATCAAAAAAG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2177	AAGCCTAGCAGCAATGGCGGT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2178	AAGCAGGCTACTTGCAATGTA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2179	AAGATTAGGGCTGGTCTTGGT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2180	AAGAGTGAAGATGAACTTGCG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus

				palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2181	AAGAGGGTCCTAATAGTTTCC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2182	AAGAGAATCTGCAGCAACATC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2183	AAGACCAGCCCTAATCTTACC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2184	AAGAATTTGTGCGCCGTAATC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2185	AACTATTAGGACCCTCTTCCC	PPOX	9	Amaranthus albus,Amaranthus

				graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2186	AACCTAAGGGCCAGACTGTTG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2187	AACCGGTCCATCGGGTGTTTG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2188	AACCGCTTTGGTCCTAACAGA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2189	AACCGCCATAGTAAGCACAGG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis

2190	AACAGTCTGGCCCTTAGGTTT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2191	AACAGGCCTTAATTTACCATT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2192	AACAGAAACCGGTCCATCGGG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2193	AACACCCGATGGACCGGTTTC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2194	AAATTCTGATAAATCCAAATG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus

				thunbergii,Amaranthus viridis
2195	AAATGCAGCTTTCATACTCAA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2196	AAATCCAAATGCGAAAGGCAG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2197	AAAGTTGAGTATGAAAGCTGC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2198	AAAGGTCTGGACCTTAGAGCA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2199	AAAGGGTGGTAGTATCATCGC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus

				palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2200	AAAGGATCCAACAGTCTGGCC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2201	AAAGGAAGAATAATCCTCCAC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2202	AAAGCTGCATTTGGAAAGGTC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2203	AAAGCTCATGAGATCAAAAAA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2204	AAAGAGTGAAGATGAACTTGC	PPOX	9	Amaranthus albus,Amaranthus

				graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2205	AAACTATTAGGACCCTCTTCC	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2206	AAACCTAAGGGCCAGACTGTT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2207	AAACCGGTCCATCGGGTGTTT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2208	AAACACCCGATGGACCGGTTT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis

2209	AAAATTCTGATAAATCCAAAT	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2210	AAAAGGGTGGTAGTATCATCG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2211	AAAAGAGTGAAGATGAACTTG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2212	AAAAATTCTGATAAATCCAAA	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus thunbergii,Amaranthus viridis
2213	AAAAAAGGGAAGGTCCGTAGG	PPOX	9	Amaranthus albus,Amaranthus graecizans,Amaranthus hybridus,Amaranthus lividus,Amaranthus palmeri,Amaranthus rudis,Amaranthus spinosus,Amaranthus

				thunbergii,Amaranthus viridis

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The claims defining the invention are as follows:

1. A method of plant control comprising: topically applying to a plant surface a composition comprising a double-stranded RNA (dsRNA) polynucleotide and a transfer agent, wherein said dsRNA polynucleotide is identical or complementary to at least 18 contiguous nucleotides of a protoporphyrinogen IX oxidase (PPG oxidase) gene sequence selected from the group consisting of SEQ ID NOs: 7-12, 14, 15, 17, 20, 29-34, 36-57, 59, and 61-71, whereby said plant's growth, development, or reproductive ability is suppressed or delayed or said plant is more sensitive to a PPG oxidase inhibitor herbicide as a result of said dsRNA polynucleotide containing composition, relative to an untreated plant.

2. A composition comprising a double-stranded RNA (dsRNA) polynucleotide and a transfer agent, wherein said dsRNA polynucleotide is identical or complementary to at least 18 contiguous nucleotides of a protoporphyrinogen IX oxidase (PPG oxidase) gene sequence selected from the group consisting of SEQ ID NOs: 7-12, 14, 15, 17, 20, 29-34, 36-57, 59, and 61-71, whereby a plant treated with said composition has its growth, development, or reproductive ability suppressed or delayed, or said plant is more sensitive to a PPG oxidase inhibitor herbicide or a mitosis inhibitor herbicide as a result of said dsRNA polynucleotide containing composition, relative to an untreated plant.

3. A method of reducing expression of a PPG oxidase gene in a plant comprising: topically applying to a plant surface a composition comprising a dsRNA polynucleotide and a transfer agent, wherein said dsRNA polynucleotide is identical or complementary to at least 18 contiguous nucleotides of a PPG oxidase gene sequence selected from the group consisting of SEQ ID NOs: 7-12, 14, 15, 17, 20, 29-34, 36-57, 59, and 61-71, whereby said expression of said PPG oxidase gene is reduced, relative to an untreated plant.

4. A microbial expression cassette comprising a polynucleotide of at least 18 contiguous nucleotides, at least 19 contiguous nucleotides, at least 20 contiguous nucleotides, or at least 21 contiguous nucleotides in length that is identical or complementary to at least 18 contiguous nucleotides of a PPG oxidase gene sequence selected from the group consisting of SEQ ID NOs: 7-12, 14, 15, 17, 20, 29-34, 36-57, 59, and 61-71.

5. A method of making a dsRNA polynucleotide comprising a) transforming the microbial expression cassette of claim 5 into a microbe; b) growing said microbe; and c) harvesting a polynucleotide from said microbe.

6. A method of identifying dsRNA polynucleotides useful in modulating PPG oxidase gene expression when externally treating a plant comprising: a) providing a plurality of dsRNA polynucleotides that comprise a region identical or complementary to at least 18 contiguous nucleotides of a PPG oxidase gene sequence selected from the group consisting of SEQ ID NOs: 7-12, 14, 15, 17, 20, 29-34, 36-57, 59, and 61-71; b) topically applying to a surface of said plant a composition comprising one or more of said dsRNA polynucleotides and a transfer agent; c) analysing said plant, or a plant extract thereof, for modulation of PPG oxidase gene expression, and d) whereby said plant treated with said composition has its growth, development, or reproductive ability suppressed or delayed or said plant is more sensitive to a PPG oxidase inhibitor herbicide or mitosis inhibitor herbicide as a result of said dsRNA polynucleotide containing composition relative to an untreated plant.

7. The method as claimed in claim 7, wherein said PPG oxidase gene expression is reduced relative to a plant not treated with said composition.

8. An agricultural chemical composition comprising an admixture of a dsRNA polynucleotide, a PPG oxidase inhibitor herbicide, a co-herbicide, and a transfer agent, wherein said dsRNA polynucleotide is identical or complementary to at least 18 contiguous nucleotides of a PPG oxidase gene sequence selected from the group consisting of SEQ ID NOs: 7-12, 14, 15, 17, 20, 29-34, 36-57, 59, and 61-71, and whereby a plant treated with said composition has its growth, development, or reproductive ability suppressed or delayed or said plant is more sensitive to said PPG oxidase inhibitor herbicide or a mitosis inhibitor herbicide as a result of said dsRNA polynucleotide containing composition, relative to an untreated plant.

9. The agricultural chemical composition of claim 8, wherein said co-herbicide is selected from the group consisting of amide herbicides, arsenical herbicides, benzothiazole herbicides, benzoylcyclohexanedione herbicides, benzofuranyl alkylsulfonate herbicides, cyclohexene oxime herbicides, cyclopropylisoxazole herbicides, dicarboximide herbicides, dinitroaniline herbicides, dinitrophenol herbicides, dithiocarbamate herbicides, glycine herbicides, halogenated aliphatic herbicides, imidazolinone herbicides, inorganic herbicides, nitrile herbicides, organophosphorus herbicides, oxadiazolone herbicides, oxazole herbicides, phenoxy herbicides, phenylenediamine herbicides, pyridazine herbicides, pyridazinone herbicides, pyridine herbicides, pyrimidinediamine herbicides, pyrimidinyloxybenzylamine herbicides, quaternary ammonium herbicides, thiocarbamate herbicides, thiocarbonate

herbicides, thiourea herbicides, triazine herbicides, triazinone herbicides, triazolone herbicides, triazolopyrimidine herbicides, uracil herbicides, and urea herbicides.

10. An agricultural chemical composition comprising an admixture of a dsRNA polynucleotide, a PPG oxidase inhibitor herbicide, and a transfer agent, wherein said dsRNA polynucleotide is identical or complementary to at least 18 contiguous nucleotides of a PPG oxidase gene sequence selected from the group consisting of SEQ ID NOs: 7-12, 14, 15, 17, 20, 29-34, 36-57, 59, and 61-71, and whereby a plant treated with said composition has its growth, development, or reproductive ability suppressed or delayed or said plant is more sensitive to said PPG oxidase inhibitor herbicide or a mitosis inhibitor herbicide as a result of said dsRNA polynucleotide containing composition, relative to an untreated plant.

11. The agricultural chemical composition of claim 10, further comprising a pesticide.

12. The agricultural chemical composition of claim 11, wherein said pesticide is selected from the group consisting of insecticides, fungicides, nematicides, bactericides, acaricides, growth regulators, chemosterilants, semiochemicals, repellents, attractants, pheromones, feeding stimulants, and biopesticides.

13. The method as in any of claims 1, 3, and 6, wherein said dsRNA polynucleotide is selected from the group consisting of SEQ ID NOs: 72-75, 84, 85, 88, 89, 96, 97, 102-105, 116, 117, 120-129, 132, 133, 138, 139, 142, 143, 146-149, 158, 159, 162, 163, 166-171, 178-181, 184-425, 428-431, 436, 437, 440-523, 530, 531, 534, 535, 542, 543, 548-551, 554, 555, 560-565, 568, 569, 572-579, 584-587, 592-595, 602, 603, 608-611, 618, 619, 626, 627, 630-733, 736-747, 750-1305, and 1308-1381.

14. The method as in any of claims 1, 3, 6, and 13, wherein said dsRNA polynucleotide is selected from the group consisting of SEQ ID NOs: 1382-1413, 1415-1452, 1454, 1456-1465, 1467-1470, 1472-1483, 1485-1523, 1525-1564, 1566-1574, 1576-1594, 1596-1602, 1604-1630, 1632-1656, 1658-1676, 1678-1717, 1719-1735, 1737, 1738, 1740-1813, 1815-1865, 1867-1963, 1965-1978, 1980-2010, 2012-2088, 2090, and 2092-2213.

15. The method as in any of claims 1, 3, 6, 13, and 14, or the composition as in claim 2, further comprising one or more components selected from the group consisting of:

i. a first PPG oxidase inhibitor herbicide;

ii. a first PPG oxidase inhibitor herbicide and one or more further PPG oxidase inhibitor herbicides different from said first PPG oxidase inhibitor herbicide;

iii. a PPG oxidase inhibitor herbicide selected from the group consisting of acifluorfen-Na, bifenox, chlomethoxyfen, chlornitrofen, ethoxyfen-ethtyl, fluoroglycofen-ethyl, fomesafen, halosafen, lactofen, oxyfluorfen, fluazolate, pyraflufen-ethyl, cinidon-ethyl, flumioxazin, flumiclorac-pentyl, fluthiacet-methyl, thidiazimin, oxadiazon, oxadiargyl, pyraclonil, flufenpyr-ethyl, azafenidin, carfentrazone-ethyl, Saflufenacil, sulfentrazone, pentoxazone. benzfendizone, butafenacil, pyrazogyl, and profluazol;

iv. a PPG oxidase inhibitor herbicide and a second herbicide selected from the group consisting of amide herbicides, arsenical herbicides, benzothiazole herbicides, benzoylcyclohexanedione herbicides, benzofuranyl alkylsulfonate herbicides, cyclohexene oxime herbicides, cyclopropylisoxazole herbicides, dicarboximide herbicides, dinitroaniline herbicides, dinitrophenol herbicides, dithiocarbamate herbicides, glycine herbicides, halogenated aliphatic herbicides, imidazolinone herbicides, inorganic herbicides, nitrile herbicides, organophosphorus herbicides, oxadiazolone herbicides, oxazole herbicides, phenoxy herbicides, phenylenediamine herbicides, pyridazine herbicides, pyridazinone herbicides, pyridine herbicides, pyrimidinediamine herbicides, pyrimidinyloxybenzylamine herbicides, quaternary ammonium herbicides, thiocarbamate herbicides, thiocarbonate herbicides, thiourea herbicides, triazine herbicides, triazinone herbicides, triazolone herbicides, triazolopyrimidine herbicides, uracil herbicides, and urea herbicides; and

v. a combination of two or more of said polynucleotides identical or complementary to at least 18 contiguous nucleotides of a PPG oxidase gene sequence.

16. The method as in any of claims 1, 3, 6, and 13-15, or the composition as in any of claims 2, and 8-12, wherein said transfer agent is an organosilicone surfactant composition or an organosilicone compound contained therein.

17. The method as in any of claims 1, 3, 6, and 13-16, or the composition as in any of claims 2, 8-12, and 16, wherein said plant is selected from the group consisting of *Amaranthus albus*, *Amaranthus graecizans*, *Amaranthus hybridus*, *Amaranthus lividus*, *Amaranthus palmeri*, *Amaranthus rudis*, *Amaranthus spinosus*, *Amaranthus thunbergii*, *Amaranthus viridis*, *Ambrosia trifida*, *Chenopodium album*, *Commelina diffusa*, *Conyza*

canadensis, *Digitaria sanguinalis*, *Euphorbia heterophylla*, *Kochia scoparia*, and *Lolium multiflorum*.

18. The method as in any of claims 1, 3, 6, and 13-17, or the composition as in any of claims 2, 8-12, 16, and 17, wherein said dsRNA polynucleotide further comprises one or more properties selected from the group consisting of:

i. said dsRNA polynucleotide is at least 19 contiguous nucleotides in length;

ii. said dsRNA polynucleotide is at least 20 contiguous nucleotides in length;

iii. said dsRNA polynucleotide is least 21 contiguous nucleotides in length;

iv. said polynucleotide comprises unmodified nucleotides;

v. said polynucleotide comprises non-canonical nucleotides; and

vi. said polynucleotide comprises a nucleotide variant.

19. The composition as in any of claims 2, 8-12, and 16-18, wherein said dsRNA polynucleotide is selected from the group consisting of SEQ ID NOs: 72-75, 84, 85, 88, 89, 96, 97, 102-105, 116, 117, 120-129, 132, 133, 138, 139, 142, 143, 146-149, 158, 159, 162, 163, 166-171, 178-181, 184-425, 428-431, 436, 437, 440-523, 530, 531, 534, 535, 542, 543, 548-551, 554, 555, 560-565, 568, 569, 572-579, 584-587, 592-595, 602, 603, 608-611, 618, 619, 626, 627, 630-733, 736-747, 750-1305, and 1308-1381.

20. The composition as in any of claims 2, 8-12, and 16-19, wherein said dsRNA polynucleotide is selected from the group consisting of SEQ ID NOs: 1382-1413, 1415-1452, 1454, 1456-1465, 1467-1470, 1472-1483, 1485-1523, 1525-1564, 1566-1574, 1576-1594, 1596-1602, 1604-1630, 1632-1656, 1658-1676, 1678-1717, 1719-1735, 1737, 1738, 1740-1813, 1815-1865, 1867-1963, 1965-1978, 1980-2010, 2012-2088, 2090, and 2092-2213.

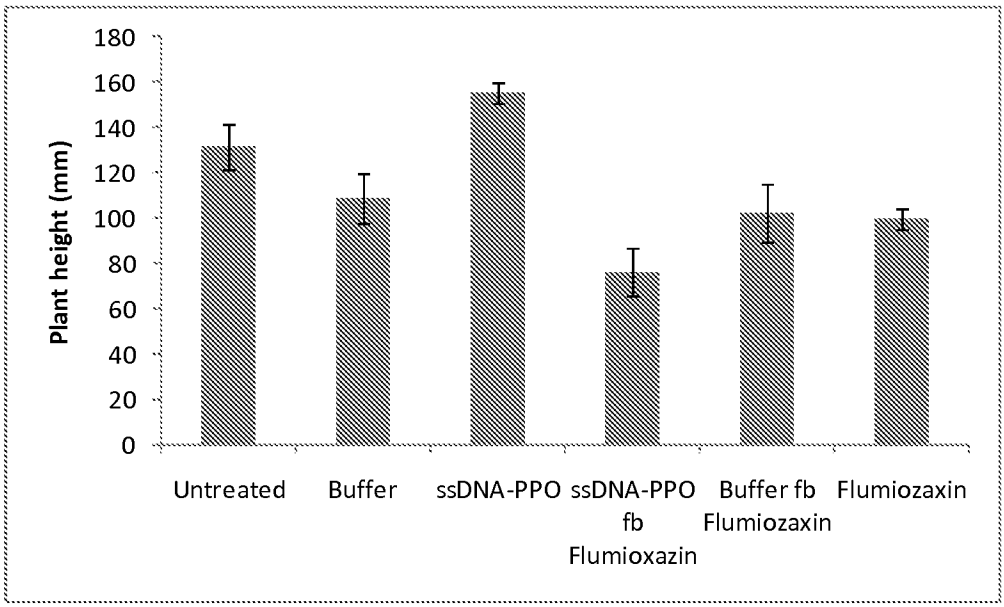

Plant height (mm)
180
160
140
120
100
80
60
40
20
0
Untreated
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ssDNA-PPO fb Flumioxazin
Buffer fb Flumiozaxin
Flumiozaxin

Figure 1

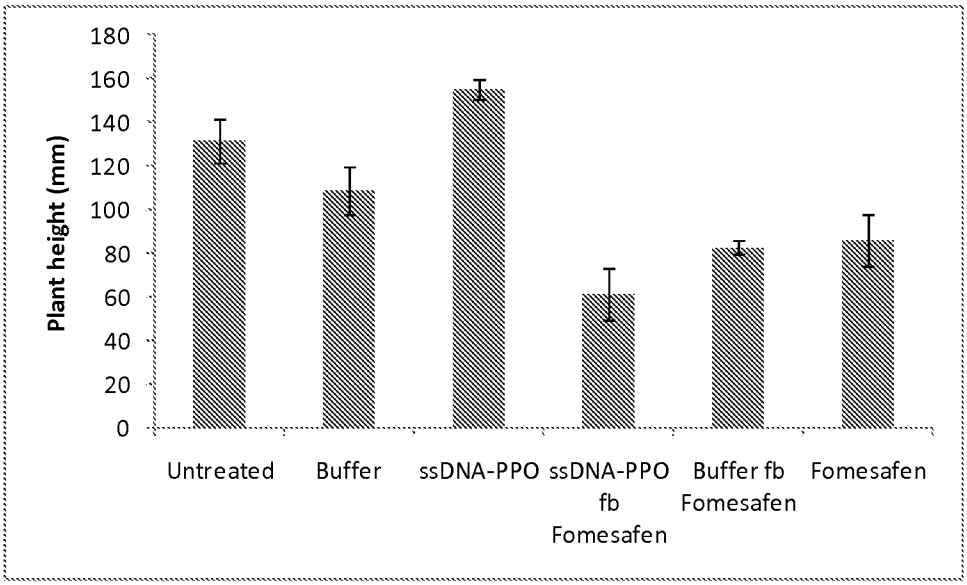

Plant height (mm)
180
160
140
120
100
80
60
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20
0
Untreated
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ssDNA-PPO
ssDNA-PPO fb Fomesafen
Buffer fb Fomesafen
Fomesafen

Figure 2

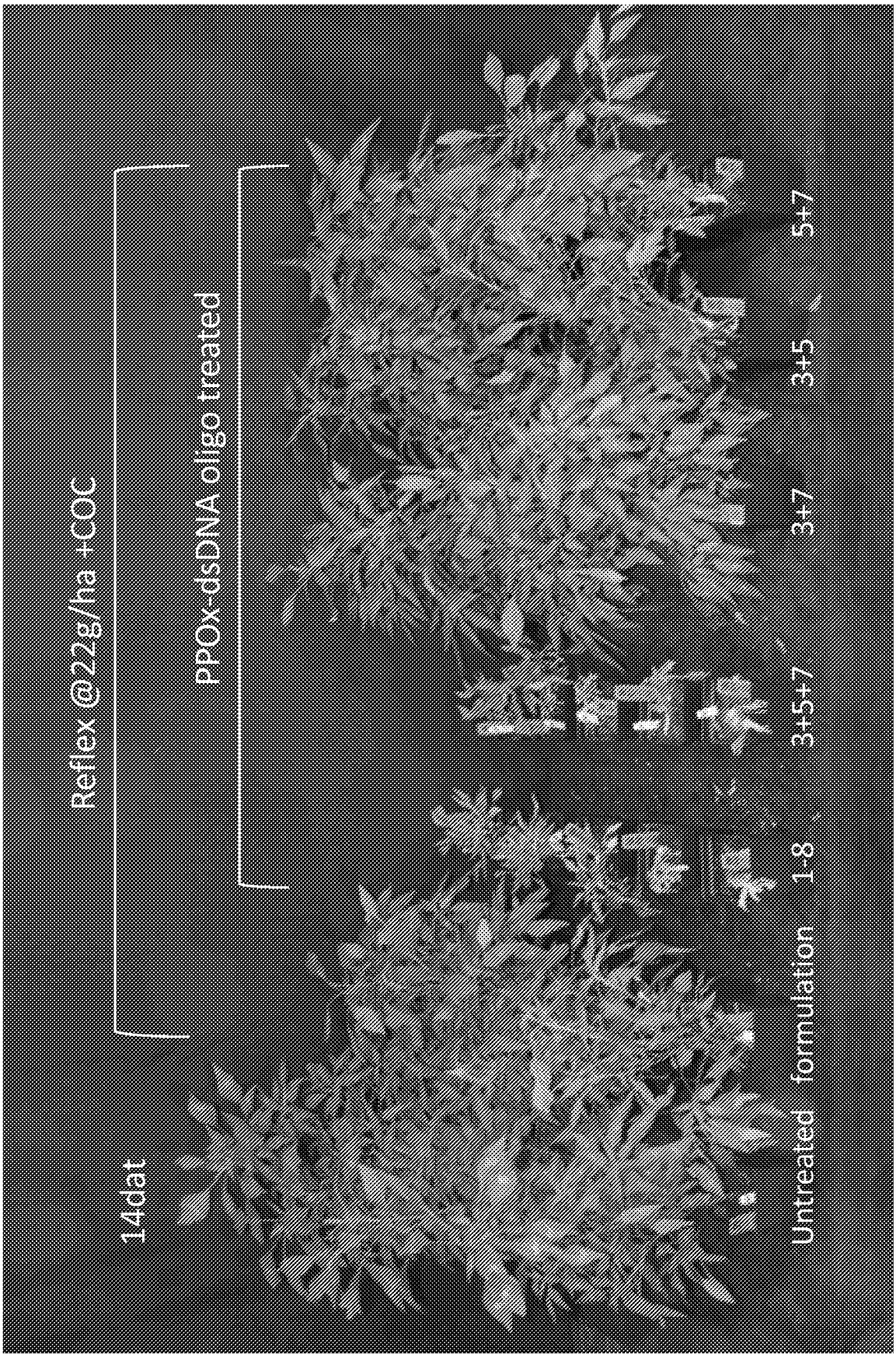

14dat
Reflex @228/ha +COC
PPOx-dsDNA oligo treated
Untreated
formulation 1-8
3+5+7
3+7
3+5
5+7

Figure 3

<110> Ader, Daniel
Finnessy, John J
Kapoor, Mahak
Li,Zhaolong
Shah, Ronak Hasmukh
Tao, Nengbing
Wang,Dafu

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<210> 13
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<212> DNA
<213> Amaranthus palmeri

<400> 13

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<211> 2379
<212> DNA
<213> Amaranthus palmeri

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<210> 15
<211> 760
<212> DNA
<213> Amaranthus palmeri

<400> 15

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gagtaccatt gttataaaag aaaagagtgc aaaatccgtt ggacgaattt aaataaaaag 660

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<210> 16
<211> 1872
<212> DNA
<213> Amaranthus rudis

<400> 16

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<210> 17
<211> 1605
<212> DNA
<213> Amaranthus rudis

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<210> 18
<211> 1238
<212> DNA
<213> Amaranthus rudis

<400> 18

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<211> 635
<212> DNA
<213> Amaranthus rudis

<400> 19

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caaaagagtg aagatgaact tgcggagaca gttgataagg atctcagaaa aattctgata 180

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<210> 20
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<212> DNA
<213> Amaranthus rudis

<400> 20

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<211> 1031
<212> DNA
<213> Amaranthus rudis

<400> 21

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<212> DNA
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<210> 23
<211> 630
<212> DNA
<213> Amaranthus rudis

<220>
<221> unsure
<222> (1)..(630)
<223> unsure at all n locations

<400> 23

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catgtattta attgataatg tcacattgcc tcatttgcag ccgccttcct aaacctaagg 540

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<210> 24
<211> 612
<212> DNA
<213> Amaranthus rudis

<400> 24

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<211> 487
<212> DNA
<213> Amaranthus rudis

<400> 25

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<210> 26
<211> 1582
<212> DNA
<213> Amaranthus spinosus

<400> 26

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<211> 1485
<212> DNA
<213> Amaranthus thunbergii

<400> 27

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<210> 28
<211> 1808
<212> DNA
<213> Amaranthus viridis

<400> 28

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<210> 29
<211> 1829
<212> DNA
<213> Ambrosia trifida

<400> 29

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<213> Ambrosia trifida

<400> 33

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<400> 34

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<213> Conyza canadensis

<400> 36

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<211> 600
<212> DNA
<213> Conyza canadensis

<400> 37

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<212> DNA
<213> Conyza canadensis

<400> 38

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<400> 40

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<213> Euphorbia heterophylla

<400> 44

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<212> DNA
<213> Euphorbia heterophylla

<400> 45

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<210> 46
<211> 855
<212> DNA
<213> Euphorbia heterophylla

<400> 46

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tcctaaccca gtatacttat aaatagtatc tgatgagatt taagcaagag ttcaattatg 540

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<211> 121
<212> DNA
<213> Euphorbia heterophylla

<400> 47

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<210> 48
<211> 77
<212> DNA
<213> Euphorbia heterophylla

<400> 48

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accgaatttt cagagta 77

<210> 49
<211> 444

<212> DNA
<213> Commelina diffusa

<400> 49

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ccaactgctg aggatcctct tctt 444

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<211> 3043
<212> DNA
<213> Commelina diffusa

<400> 50

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<211> 1559
<212> DNA
<213> Commelina diffusa

<400> 51

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<210> 52
<211> 589
<212> DNA
<213> Commelina diffusa

<400> 52

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<210> 53
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<212> DNA
<213> Digitaria sanguinalis

<400> 53

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<213> Digitaria sanguinalis

<400> 54

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ctatagttca tccctttcc ctaaccgggc gccacctgga agggttctcc tcctcaacta 420

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agttgaccgt gatctaagga agatgctcat aaacccta 518

<210> 55
<211> 387
<212> DNA
<213> Digitaria sanguinalis

<400> 55

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tgttgcggga acaagcggtg gagatcctga atcactttca atgcgttatg cgtttcctga 120

gttatgggat ttagagagaa ggttcggttc aatcatttct ggggcatttc tgtcaatgtt 180

atcttccaga ggtgggaaaa ggaaaccttc tggaaacagc aaacgtaggc gtggttcttt 240

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tggtaattgg tcaatttatt gtgctcc 387

<210> 56
<211> 2697
<212> DNA
<213> Digitaria sanguinalis

<400> 56

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cttgcagagc cggccaaagt gggcacgtga gagccacgag gatacgcgag atgacgacga 240

ccatggaggt ggtttcgaac tttcgatcgc cgatttttat tgcgtcagtt tcacagccag 300

agatgcttgg cctagtacgg ctgacgatga gcgtttgttt agctcatctg aaggaatgtg 360

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cctgcctgca ggaagcagca gggtgtctgg gatctgcatc atgccgggcg cacaagagga 720

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<210> 57
<211> 1089
<212> DNA
<213> Digitaria sanguinalis

<400> 57

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atcaaaatag tggtggtatg cttttgtagg aacaatatac agctcatcac tcttcccaaa 180

tcgtgctcct gctggaaggg tgttacttct aaactatata ggaggtgcta caaacactgg 240

aattgtttcc aaggttagta attctctgtc gaacttattg ccttgagttt tgtgttcatg 300

atgttttgac tgtaaaaaga aaattggcat tctttaataa tcaacgtaag cagtatttta 360

aaaagaaagt tggcatttta ataatcaata tcaacttgta actagattgc ttattattgg 420

ctattattat ttaggtggga cccgcagact atttaggtgt ggaacccatg tgggacccgc 480

atactattta ggcgggaccc acgcatattc agacacacta tttagagtgg aacctacaat 540

aatgttaagc gtctacgtta tttaaaaaat tattgataat tgttttcatt ctttgcagta 600

taaaatatat ttatttttt ctatgtataa aaataatctc taactttgta tactacattc 660

gtttgtgata gttctaatac tttttgtact ttgctttcat ttcataaatt tgaaaaataa 720

gattgaatta tacattcgtt acaaaatgta tctttttttct attaaaaatt aaaaattagt 780

gtaacataac acgtcactcc attagctatt tctactacca cttatatagt gcttaaatga 840

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acccaactag tattcctaat gatgccatct caattgcaga gtgaaagtga gctggtagaa 1020

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<210> 58
<211> 1518
<212> DNA
<213> Kochia scoparia

<400> 58

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gcacaagcac tttctacaaa gtactcttct ctttctacaa atttcattgt taccgaggcg 180

aaagatcgag ttggtggcaa cattaccacc aaggaggatg atggctatat ctgggaagaa 240

ggacccaaca gttttcagcc gtctgatgca gttctcacca tggctgttga ttgtgggttg 300

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gaatctgttg aggattttgt tcgtcgaaat cttggcgatg aggtctttga acgtttgatt 540

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aagggtcaga cagttggatc ctttaggaaa ggactcatta tgttgccgaa cgccatttct 780

gctaggcttg gaagtaaagt gaaactttct tggactctag ctagtatttc taagacacac 840

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ttccctggtc gagcaccacc tggtaggacc atgatcttga gcttcattgg aggtgctact 1200

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agaagaattc ttataaatcc aagtgcaaaa gatcctcgtg ttctaggcgt gaaagtatgg 1320

cctcaagcaa taccccaatt tttgataggc cactttgatc tgcttgatgc tgcaaaagct 1380

gctttgactg atgctgggtg taaaggattg tttcttggag gaaactatgt atcaggtgtt 1440

gccttggggc ggtgtataga gggtgcttat gaatctgcag ccgaggtagt tgatttcctc 1500

tcccagtatt cagacaaa 1518

<210> 59
<211> 963
<212> DNA
<213> Kochia scoparia

<400> 59

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gcacaagcac tttctacaaa gtactcttct ctttctacaa atttcattgt taccgaggcg 180

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aagggtcaga cagttggatc ctttaggaaa ggactcatta tgttgccgaa cgccatttct 780

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aatggggaat ataatttgat ttatgataca ccagatggac cggtttccgt aaggactaaa 900

agtatcgtga tgactattcc atcatatgtt gcaagtagtc tgcttcgtcc attctcagtg 960

agt 963

<210> 60
<211> 564
<212> DNA
<213> Kochia scoparia

<400> 60

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ggtgttgcct tggggcggtg tatagagggt gcttatgaat ctgcagccga ggtagttgat 540

ttcctctccc agtattcaga caaa 564

<210> 61
<211> 516
<212> DNA
<213> Kochia scoparia

<400> 61

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gtactcaaag caatcgagca gatggaaaga gatcttcgtg gacttttta tgcaggcaac 420

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gtaatgttgt atctcaactc ttcattagat gcaaag 516

<210> 62
<211> 1185
<212> DNA
<213> Lolium multiflorum

<400> 62

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gaaccatcaa ggcaattcag gatagaggca agaaccccaa accgccgagg gatccccgac 180

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caaagtcgga caaccaggga tatgtgttag cgtatgaaac accggaagga gttgtttcag 360

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<210> 63
<211> 258
<212> DNA
<213> Lolium multiflorum

<400> 63

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gcattggaag ctataggaaa gatggagaat gatcttccag ggttcttcta tgcaggaaat 180

aacaaggatg gcttggctgt tggaaatgtt atagcttcag gaagtaaaac tgctgatctg 240

gtgatctcgt atcttgag 258

<210> 64
<211> 201
<212> DNA
<213> Lolium multiflorum

<400> 64

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<210> 65
<211> 150
<212> DNA
<213> Lolium multiflorum

<400> 65

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tataaggaac agcaaaaaca tggtctgaaa 150

<210> 66
<211> 144
<212> DNA
<213> Lolium multiflorum

<400> 66

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ccatttgtag ctggaacaag tgcaggagat cctgagtcat tatctatccg tcatgcattt 120

ccagcgttat ggaatttaga aaag 144

<210> 67
<211> 114
<212> DNA
<213> Lolium multiflorum

<400> 67

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tttacaacat tcgttggggg aagccacaat agggatctcg ctggagctcc aacg 114

<210> 68
<211> 108
<212> DNA
<213> Lolium multiflorum

<400> 68

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cgcggctgcc ggcccgtcgt cttcgaggcg gacacgctcc ttggcggt 108

<210> 69
<211> 3037
<212> DNA
<213> Lolium multiflorum

<400> 69

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aattccaatt ccagtgggcc atgaaaaccg caaaccaacc aaccaataca gccgcagccg 180

catcccgtca tccactccgc actgccatct cccccgcccg agcgacggaa atggtcggcg 240

caaccatggc caccgctacc gtcacggcgg cgctaccgct ccgcctccgg gtccccgcgc 300

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tggcggaccc aggattttgg caaagggtat gccacacaaa aaaattggcc tgccttgata 2160

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aataaacaaa gaaatatgct gaagaaagct acaacggagc atataaaaat tagtcacaat 2460

agctaaatgg tttcttaatt aatcaccata gctaatcatc cattacgaaa gtacctggac 2520

gcatgcatgg tgcatggcca tgtctctagg ctagtttagc aattaaccgg atggtcaagt 2580

gagtaccaaa aactaataaa gcatgtgtcc ctgtacgatg catgctcgca ggctacatgc 2640

accggcttga ttaaaatggc cagctgatta caggcggttc atatggctgg gccgctaggt 2700

atgccatggc atatgcggca taccctgtag gtccgcactg ctcctgtggt aaccatgaaa 2760

tagcacgcta gtacactatt ccttaataga gttgctaatc aataattgac cgcattacga 2820

tactggttgc ctgtaatctt agtccaaaca catgattgag cattttgtt gagagattaa 2880

ttgattaatg tggttaaact gttcactgat gcataggttg gactatttct tcaccaatca 2940

actctatgtt tcaaataatt gaaatataca tcaatagatt cagaaaactg tatcttgttt 3000

tgacaaagtg acgcaagaca ccaatatgcc ttatgat 3037

<210> 70
<211> 795
<212> DNA
<213> Lolium multiflorum

<400> 70

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gtgctacaaa tacagggatc gtctccaagg ttctctcgac ctgctggata ctcatgtcat 180

tttcttattg cgtgatacca ggttacagta ttcagttagt gttggtcacc tattcattta 240

tgattaatat aaataactgg actgcatttt tcacccccag ctgcaattgt gaatacaaat 300

agattaaatg gtctgcttag atgctacatt caatctcaat agtattgtta gatttttttt 360

ttggctggcc atatttatac tgatcccatt ttgtttgcag actgagagtg acttggtgga 420

agcagttgat cgtgacctca gaaaaatgtt gataaatcct acagcaccag acccttagc 480

cttaggtgtc cgagtgtggc cacaagccat tccacagttt ttgattgggc accttgatcg 540

ccttgatgcg gcaaaatctg ccttggccag aggcggctgc agtgggttgt tcctaggagg 600

aaactatgta gcaggagttg ccttgggccg atgcatcgag ggtgcgtacg agagtgcctc 660

agaagtatct gacttcttga ccaagtatgc ctacaagtga tgaaagaagt gtaattcatc 720

atcttgctgc atatttgagg tgcggccaga atcagtaata attcggaaaa tcttgtaatc 780

ttctctactt atacc 795

<210> 71
<211> 381
<212> DNA
<213> Lolium multiflorum

<400> 71

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tgagcgcctc atcgagcctt tctgctcagg tagtgtgcag tagtatctgt ctgttctgtt 120

ctgctctgct tcctgcattg attccgataa taagaatata acatttcgat atcaacgtta 180

ggtgtgtatg cgggtgaccc ttcaaagctc agtatgcggg ctgcgtttgg gaaggtatgg 240

agactggagg agaatggagg cagtattatt ggtggaacca tcaaggcaat tcaggataga 300

ggcaagaacc ccaaaccgcc gagggatccg taagtggaga ctgcaatttt ctatttagtc 360

agttaactgt tccattagac t 381

<210> 72
<211> 200
<212> DNA
<213> Amaranthus albus

<400> 72

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cgttatcgag cagcattcta caatgtccgc cgcactccga catctcgttc cgcttttttg 120

ctcatacacg aacccactcc cccatcttct tcagaagacc acgaaaatta tcatatatcc 180

attgttccac aagctcaagc 200

<210> 73
<211> 200
<212> DNA
<213> Amaranthus albus

<400> 73

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ggagtgggtt cgtgtatgag caaaaaagcg gaacgagatg tcggagtgcg gcggacattg 120

tagaatgctg ctcgataacg ccatcgcact catctctctc gcactctctc tggttatcct 180

atcttcaaat caaggattcc 200

<210> 74
<211> 200
<212> DNA
<213> Amaranthus albus

<400> 74

tatccattgt tccacaagct caagctcaac tgccaattac cagaacacga ttacgagcca 60

aggagaagga gaaaaagtat tagattgtgt aattgttgga gctggtatca gtggactttg 120

cattgctcag gctctttcta ccaaacacat tcaatccaat ctcaatttca ttgtcactga 180

agctaaacat cgtgttggag 200

<210> 75
<211> 200
<212> DNA
<213> Amaranthus albus

<400> 75

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tagaaagagc ctgagcaatg caaagtccac tgataccagc tccaacaatt acacaatcta 120

atacttttc tccttctcct tggctcgtaa tcgtgttctg gtaattggca gttgagcttg 180

agcttgtgga acaatggata 200

<210> 76
<211> 200
<212> DNA
<213> Amaranthus albus

<400> 76

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tgggaagagg gtcctaatag tttccaaccc tccgatcctg tgcttactat ggcggttgac 120

agtggattga aagacgattt ggtcttggga gatcctaatg cccctcgttt cgtgctgtgg 180

aatggtaaat taaggcctgt 200

<210> 77
<211> 200
<212> DNA
<213> Amaranthus albus

<400> 77

acaggcctta atttaccatt ccacagcacg aaacgagggg cattaggatc tcccaagacc 60

aaatcgtctt tcaatccact gtcaaccgcc atagtaagca caggatcgga gggttggaaa 120

ctattaggac cctcttccca gatatagcca tcggactcca tggtagtgat attacctcca 180

acacgatgtt tagcttcagt 200

<210> 78
<211> 200
<212> DNA
<213> Amaranthus albus

<400> 78

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tcatgagctt tcctggtaag attagggctg gtcttggtgc acttggtctt cgtcctcctc 120

ctcctccttc ttcttatgag gaatccgttg aagaatttgt gcgccgtaat ctcggcgatg 180

aggtcttcga acgcttgatt 200

<210> 79
<211> 200
<212> DNA
<213> Amaranthus albus

<400> 79

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ctcataagaa gaaggaggag gaggaggacg aagaccaagt gcaccaagac cagccctaat 120

cttaccagga aagctcatga gatcaaaaaa gggaaggtcc gtaggtttgg aaggaacagg 180

ccttaattta ccattccaca 200

<210> 80
<211> 200
<212> DNA
<213> Amaranthus albus

<400> 80

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tgcaaagttg agtatgaaag ctgcatttgg aaaggtctgg accttagagc aaaagggtgg 120

tagtatcatc gccggtacac tcaaaactat tcaggaaagg aagaataatc ctccaccccc 180

tcgagacccc cgccttccta 200

<210> 81
<211> 200
<212> DNA
<213> Amaranthus albus

<400> 81

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gtgtaccggc gatgatacta ccacccтttt gctctaaggt ccagaccttt ccaaatgcag 120

ctttcatact caactttgca ggatcaccag catagacacc agaacaaaag ggttcaatca 180

agcgttcgaa gacctcatcg 200

<210> 82
<211> 200
<212> DNA
<213> Amaranthus albus

<400> 82

ccccctcgag acccccgcct tcctaaacct aagggccaga ctgttggatc ctttaggaaa 60

ggactcatta tgttacctac cgccattgct gctaggcttg gcagtaaagt caaactatcg 120

tggacacttt ctaatattga taagtcgctc aatggtgaat acaatctcac atatcaaaca 180

cccgatggac cggtttctgt 200

<210> 83
<211> 200
<212> DNA
<213> Amaranthus albus

<400> 83

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tcaatattag aaagtgtcca cgatagtttg actttactgc caagcctagc agcaatggcg 120

gtaggtaaca taatgagtcc tttcctaaag gatccaacag tctggccctt aggtttagga 180

aggcgggggt ctcgaggggg 200

<210> 84
<211> 200
<212> DNA
<213> Amaranthus albus

<400> 84

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tgaagatgaa cttgcggaga cagttgataa ggatctcaga aaaattctga taaatccaaa 120

tgcgaaaggc agccgtgttc tgggagtgag agtatggcca aaggcaatcc cccaattttt 180

agttggtcac tttgatctgc 200

<210> 85
<211> 200
<212> DNA
<213> Amaranthus albus

<400> 85

gcagatcaaa gtgaccaact aaaaattggg ggattgcctt tggccatact ctcactccca 60

gaacacggct gcctttcgca tttggattta tcagaatttt tctgagatcc ttatcaactg 120

tctccgcaag ttcatcttca ctcttttgta atatgccaag atttgtagca cctccaatgt 180

agctcaagat caaggtccta 200

<210> 86
<211> 200
<212> DNA
<213> Amaranthus albus

<400> 86

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ctaaaggggt tgtttcttgg tggtaattat gtatcaggtg ttgccttggg gaggtgtata 120

gagggtgctt atgactctgc atctcaggta gtggatttcc tctcacagta caaagacaag 180

tagtcagtag ggctccagca 200

<210> 87
<211> 200
<212> DNA
<213> Amaranthus albus

<400> 87

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gcagagtcat aagcaccctc tatacacctc cccaaggcaa cacctgatac ataattacca 120

ccaagaaaca acccctttag cccagcattt gccaaagcag cttttgcagc atctagcaga 180

tcaaagtgac caactaaaaa 200

<210> 88
<211> 200
<212> DNA
<213> Amaranthus graecizans

<400> 88

gtgcgagaga gatgagtgcg atggcgttat cgagcagcat tctacaatgt ccgccgcact 60

ccgacatctc gttccgcttt tttgctcata cacgaaccca ctcccccatc ttcttcagaa 120

gaccacgaaa attatcatat atccattgtt ccacaagctc aagctcaact gccaattacc 180

agaacacgat tacgagccaa 200

<210> 89
<211> 200
<212> DNA
<213> Amaranthus graecizans

<400> 89

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atatgataat tttcgtggtc ttctgaagaa gatgggggag tgggttcgtg tatgagcaaa 120

aaagcggaac gagatgtcgg agtgcggcgg acattgtaga atgctgctcg ataacgccat 180

cgcactcatc tctctcgcac 200

<210> 90
<211> 200
<212> DNA
<213> Amaranthus graecizans

<400> 90

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tggagctggt atcagtggac tttgcattgc tcaggctctt tctaccaaac acattcaatc 120

caatctcaat ttcattgtca ctgaagctaa acatcgtgtt ggaggtaata tcactaccat 180

ggagtccgat ggctatatct 200

<210> 91
<211> 200
<212> DNA
<213> Amaranthus graecizans

<400> 91

agatatagcc atcggactcc atggtagtga tattacctcc aacacgatgt ttagcttcag 60

tgacaatgaa attgagattg gattgaatgt gtttggtaga aagagcctga gcaatgcaaa 120

gtccactgat accagctcca acaattacac aatctaatac tttttctcct tctccttggc 180

tcgtaatcgt gttctggtaa 200

<210> 92
<211> 200
<212> DNA
<213> Amaranthus graecizans

<400> 92

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cctgtgctta ctatggcggt tgacagtgga ttgaaagacg atttggtctt gggagatcct 120

aatgcccctc gtttcgtgct gtggaatggt aaattaaggc ctgttccttc caagcctacg 180

gaccttccct tttttgatct 200

<210> 93
<211> 200
<212> DNA
<213> Amaranthus graecizans

<400> 93

agatcaaaaa agggaaggtc cgtaggcttg gaaggaacag gccttaattt accattccac 60

agcacgaaac gaggggcatt aggatctccc aagaccaaat cgtctttcaa tccactgtca 120

accgccatag taagcacagg atcggagggt tggaaactat taggaccctc ttcccagata 180

tagccatcgg actccatggt 200

<210> 94
<211> 200
<212> DNA
<213> Amaranthus graecizans

<400> 94

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gtgcacttgg tcttcgtcct cctcctcctc cttcttctta tgaggaatcc gttgaagaat 120

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gtgtctatgc tggtgatcct 200

<210> 95
<211> 200
<212> DNA
<213> Amaranthus graecizans

<400> 95

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gccgagatta cggcgcacaa attcttcaac ggattcctca taagaagaag gaggaggagg 120

aggacgaaga ccaagtgcac caagaccagc cctaatctta ccaggaaagc tcatgagatc 180

aaaaaaggga aggtccgtag 200

<210> 96
<211> 200
<212> DNA
<213> Amaranthus graecizans

<400> 96

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ctggacctta gagcaaaagg gtggtagtat catcgccggt acactcaaaa ctattcagga 120

aaggaagaat aatcctccac cccctcgaga cccccgcctt cctaaaccta agggccagac 180

tgttggatcc tttaggaaag 200

<210> 97
<211> 200
<212> DNA
<213> Amaranthus graecizans

<400> 97

ctttcctaaa ggatccaaca gtctggccct taggtttagg aaggcggggg tctcgagggg 60

gtggaggatt attcttcctt tcctgaatag ttttgagtgt accggcgatg atactaccac 120

ccttttgctc taaggtccag acctttccaa atgcagcttt catactcaac tttgcaggat 180

caccagcata gacaccagaa 200

<210> 98
<211> 200
<212> DNA
<213> Amaranthus graecizans

<400> 98

cagactgttg gatcctttag gaaaggactc attatgttac ctaccgccat tgctgctagg 60

cttggcagta aagtcaaact atcgtggaca ctttctaata ttgataagtc gctcaatggt 120

gaatacaatc tcacatatca aacacccgat ggaccggttt ctgttaggac caaagcggtt 180

gtcatgactg tcccttcata 200

<210> 99
<211> 200
<212> DNA
<213> Amaranthus graecizans

<400> 99

tatgaaggga cagtcatgac aaccgctttg gtcctaacag aaaccggtcc atcgggtgtt 60

tgatatgtga gattgtattc accattgagc gacttatcaa tattagaaag tgtccacgat 120

agtttgactt tactgccaag cctagcagca atggcggtag gtaacataat gagtcctttc 180

ctaaaggatc caacagtctg 200

<210> 100
<211> 200
<212> DNA
<213> Amaranthus graecizans

<400> 100

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ttgctgcaga ttctctttct aaattttact atcctccagt cgcagcagtg tccctttctt 120

atcccaaaga agcaattaga ccagaatgct tgatcgatgg agaactaaaa ggattcgggc 180

aattgcatcc ccgcagccag 200

<210> 101
<211> 200
<212> DNA
<213> Amaranthus graecizans

<400> 101

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tctaattgct tctttgggat aagaaaggga cactgctgcg actggaggat agtaaaattt 120

agaaagagaa tctgcagcaa catctgagag cggacgaagc aggctacttg caatgtatga 180

agggacagtc atgacaaccg 200

<210> 102
<211> 200
<212> DNA
<213> Amaranthus graecizans

<400> 102

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tcttttccct ggtcgagcac cacccggtag gaccttgatc ttgagctaca ttggaggtgc 120

tacaaatctt ggcatattac aaaagagtga agatgaactt gcggagacag ttgataagga 180

tctcagaaaa attctgataa 200

<210> 103
<211> 200
<212> DNA
<213> Amaranthus graecizans

<400> 103

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gtaatatgcc aagatttgta gcacctccaa tgtagctcaa gatcaaggtc ctaccgggtg 120

gtgctcgacc agggaaaaga gatgaactat aaattgttcc caaggtttcc acaccctggc 180

tgcggggatg caattgcccg 200

<210> 104
<211> 200
<212> DNA
<213> Amaranthus graecizans

<400> 104

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agagtatggc caaaggcaat cccccaattt ttagttggtc actttgatct gctagatgct 120

gcaaaagctg ctttggcaaa tgctgggcta aaggggttgt ttcttggtgg taattatgta 180

tcaggtgttg ccttggggag 200

<210> 105
<211> 200
<212> DNA
<213> Amaranthus graecizans

<400> 105

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tttgccaaag cagcttttgc agcatctagc agatcaaagt gaccaactaa aaattggggg 120

attgcctttg gccatactct cactcccaga acacggctgc ctttcgcatt tggatttatc 180

agaatttttc tgagatcctt 200

<210> 106
<211> 200
<212> DNA
<213> Amaranthus graecizans

<400> 106

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tagtggattt cctctcacag tacaaagaca agtagtcagt agggctccag catcctggtt 120

aagtaacttt ttgtagctgt tgtaattcag atataaaata gcccacagtc aaacaagttt 180

ggaaagatgt aaaagcatga 200

<210> 107
<211> 200
<212> DNA
<213> Amaranthus graecizans

<400> 107

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acagctacaa aaagttactt aaccaggatg ctggagccct actgactact tgtctttgta 120

ctgtgagagg aaatccacta cctgagatgc agagtcataa gcaccctcta tacacctccc 180

caaggcaaca cctgatacat 200

<210> 108
<211> 200
<212> DNA
<213> Amaranthus hybridus

<400> 108

gaagctaaac atcgtgttgg aggtaatatc actaccatgg agtccgatgg ctatatctgg 60

gaagagggtc ctaatagttt ccaaccctct gatcctgtgc ttactatggc ggttgacagt 120

ggattgaaag acgatttggt cttgggagat cctaatgccc ctcgtttcgt gctctggaat 180

ggtaaattaa ggcctgttcc 200

<210> 109
<211> 200
<212> DNA
<213> Amaranthus hybridus

<400> 109

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accaaatcgt ctttcaatcc actgtcaacc gccatagtaa gcacaggatc agagggttgg 120

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ccaacacgat gtttagcttc 200

<210> 110
<211> 200
<212> DNA
<213> Amaranthus hybridus

<400> 110

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tgagctttcc tggtaagatt agggctggtc ttggtgcact tggtcttcgt cgtcctcctc 120

ctccttcttc ttatgaggaa tctgttgaag aatttgtgcg ccgtaatctc ggcgatgagg 180

tcttcgaacg cttgatcgaa 200

<210> 111
<211> 200
<212> DNA
<213> Amaranthus hybridus

<400> 111

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ttcctcataa gaagaaggag gaggaggacg acgaagacca agtgcaccaa gaccagccct 120

aatcttacca ggaaagctca tgagatcaaa aaagggaagg tccgtaggtt tggaaggaac 180

aggccttaat ttaccattcc 200

<210> 112
<211> 200
<212> DNA
<213> Amaranthus hybridus

<400> 112

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aaagttgagt atgaaagctg catttggaaa ggtctggacc ttagagcaaa agggtggtag 120

tatcatcgcc ggtacactca aaactattca ggaaaggaag aataatcctc cacccctcg 180

agacccccgc cttcctaaac 200

<210> 113
<211> 200
<212> DNA
<213> Amaranthus hybridus

<400> 113

gtttaggaag gcgggggtct cgaggggtg gaggattatt cttcctttcc tgaatagttt 60

tgagtgtacc ggcgatgata ctaccaccct tttgctctaa ggtccagacc tttccaaatg 120

cagctttcat actcaacttt gtaggatcac cagcatacac accagaacaa aagggttcga 180

tcaagcgttc gaagacctca 200

<210> 114
<211> 200
<212> DNA
<213> Amaranthus hybridus

<400> 114

cctcgagacc cccgccttcc taaacctaag ggccagactg ttggatcctt taggaaaggg 60

ctcattatgt tacctaccgc cattgctgct aggcttggca gtaaagtcaa actatcgtgg 120

acactttcta atattgataa gtcgctcaat ggtgaataca ttctcactta tcaaacaccc 180

gatggaccgg tttctgttag 200

<210> 115
<211> 200
<212> DNA
<213> Amaranthus hybridus

<400> 115

ctaacagaaa ccggtccatc gggtgtttga taagtgagaa tgtattcacc attgagcgac 60

ttatcaatat tagaaagtgt ccacgatagt ttgactttac tgccaagcct agcagcaatg 120

gcggtaggta acataatgag ccctttccta aaggatccaa cagtctggcc cttaggttta 180

ggaaggcggg ggtctcgagg 200

<210> 116
<211> 200
<212> DNA
<213> Amaranthus hybridus

<400> 116

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ttgcaagtag cctgcttcgt ccgctctcag atgttgctgc agattctctt tctaagtttt 120

actatccacc agtcgcagca gtgtcccttt cttatcccaa agaagcaatt agaccagaat 180

gcttgatcga tggagaacta 200

<210> 117
<211> 200
<212> DNA
<213> Amaranthus hybridus

<400> 117

tagttctcca tcgatcaagc attctggtct aattgcttct ttgggataag aaagggacac 60

tgctgcgact ggtggatagt aaaacttaga aagagaatct gcagcaacat ctgagagcgg 120

acgaagcagg ctacttgcaa tgtatgaagg gacagtcatg acaaccgctt tggtcctaac 180

agaaaccggt ccatcgggtg 200

<210> 118
<211> 200
<212> DNA
<213> Amaranthus hybridus

<400> 118

agaatgcttg atcgatggag aactaaaagg attcgggcaa ttgcatcccc gcagccaggg 60

tgtggaaacc ttgggaacaa tttatagttc atctcttttc ccttggttcg agcaccaccc 120

ggtaggacct tgatcttgag ctacattgga ggtgctacaa atgttggaat attacaaaag 180

agtgaagatg aacttgcgga 200

<210> 119
<211> 200
<212> DNA
<213> Amaranthus hybridus

<400> 119

tccgcaagtt catcttcact cttttgtaat attccaacat ttgtagcacc tccaatgtag 60

ctcaagatca aggtcctacc gggtggtgct cgaaccaagg gaaaagagat gaactataaa 120

ttgttcccaa ggtttccaca ccctggctgc ggggatgcaa ttgcccgaat ccttttagtt 180

ctccatcgat caagcattct 200

<210> 120
<211> 200
<212> DNA
<213> Amaranthus lividus

<400> 120

tagattgttg agagggaatg ggcaattaag tggaatccca tttccttaaa ctcagctggt 60

gtatgtaatg gtgtctttcc accttcaatc atgtttgcaa ttctcaaacc tttaacatct 120

ctaacaacct cttttagctc ttctatgttg gctggtgcct caacaaatgt ggcatcagcc 180

cctgcctctc tgtaaagatt 200

<210> 121
<211> 200
<212> DNA
<213> Amaranthus lividus

<400> 121

aatctttaca gagaggcagg ggctgatgcc acatttgttg aggcaccagc caacatagaa 60

gagctaaaag aggttgttag agatgttaaa ggtttgagaa ttgcaaacat gattgaaggt 120

ggaaagacac cattacatac accagctgag tttaaggaaa tgggattcca cttaattgcc 180

cattccctct caacaatcta 200

<210> 122
<211> 200
<212> DNA
<213> Amaranthus lividus

<400> 122

cagcccctgc ctctctgtaa agattagcac gtctaatagc ttcttgaaga ccgtgaggtg 60

cacgagcatc agtccttgca accaagaaga aatcagattc accaatggct tcccttgctg 120

cagcgatctt aagggcgtgc tcctctgcag gaacaactgc cttaccacgc atgtgaccac 180

acttctttgg ccatacttga 200

<210> 123
<211> 200
<212> DNA
<213> Amaranthus lividus

<400> 123

tcaagtatgg ccaaagaagt gtggtcacat gcgtggtaag gcagttgttc ctgcagagga 60

gcacgccctt aagatcgctg cagcaaggga agccattggt gaatctgatt tcttcttggt 120

tgcaaggact gatgctcgtg cacctcacgg tcttcaagaa gctattagac gtgctaatct 180

ttacagagag gcaggggctg 200

<210> 124
<211> 200
<212> DNA
<213> Amaranthus lividus

<400> 124

accacacttc tttggccata cttgatcctc aaggaaaaca cccttggcac cagctgcgat 60

caagtctttg atgaaccttt gaacattaag aggaccacca ccaccggtgt ctccgtcaac 120

aataacacac aaactaggag cagctgccgt aattctgcga acaacatcta ccacttctgc 180

agttgtaagc aagccaaagt 200

<210> 125
<211> 200
<212> DNA
<213> Amaranthus lividus

<400> 125

actttggctt gcttacaact gcagaagtgg tagatgttgt tcgcagaatt acggcagctg 60

ctcctagttt gtgtgttatt gttgacggag acaccggtgg tggtggtcct cttaatgttc 120

aaaggttcat caaagacttg atcgcagctg gtgccaaggg tgttttcctt gaggatcaag 180

tatggccaaa gaagtgtggt 200

<210> 126
<211> 200
<212> DNA
<213> Amaranthus lividus

<400> 126

tctgcagttg taagcaagcc aaagtcgggc aagccaagaa gagcagcgga aacaccaaaa 60

ccggagacaa agcaagcttt gaagccggtt ttagcgcaaa tggcggcgga gaaagcgtct 120

tggattccgg gcattaaaat tggtccctcc tcggcgatca gacggtgcat tgtggtcttt 180

ccgactgcct caagagaacc 200

<210> 127
<211> 200
<212> DNA
<213> Amaranthus lividus

<400> 127

ggttctcttg aggcagtcgg aaagaccaca atgcaccgtc tgatcgccga ggagggacca 60

attttaatgc ccggaatcca agacgctttc tccgccgcca tttgcgctaa aaccggcttc 120

aaagcttgct ttgtctccgg ttttggtgtt tccgctgctc ttcttggctt gcccgacttt 180

ggcttgctta caactgcaga 200

<210> 128
<211> 200
<212> DNA
<213> Amaranthus lividus

<400> 128

tctttccgac tgcctcaaga gaacccattt ttgtttctaa taatacaatt taggaattaa 60

ggaaggaggt gatgatgagt tgatagaact acttagtgtg taattgttgg agctggtatc 120

agtggacttt gcattgcgca ggctctttct accaaacaca ttcaatccaa tctcaatttc 180

attgtcactg aagctaaaca 200

<210> 129
<211> 200
<212> DNA
<213> Amaranthus lividus

<400> 129

tgtttagctt cagtgacaat gaaattgaga ttggattgaa tgtgtttggt agaaagagcc 60

tgcgcaatgc aaagtccact gataccagct ccaacaatta cacactaagt agttctatca 120

actcatcatc acctccttcc ttaattccta aattgtatta ttagaaacaa aaatgggttc 180

tcttgaggca gtcggaaaga 200

<210> 130
<211> 200
<212> DNA
<213> Amaranthus lividus

<400> 130

atttcattgt cactgaagct aaacatcgtg ttggaggtaa tattactacc atggagtccg 60

atggctatat ctgggaagag ggtcctaata gtttccaacc ctctgatcct gtgcttacta 120

tggcggttga cagtggattg aaagacgatt tggttttggg agatcctgat gcccctcgtt 180

tcgtgctctg gaatggtaaa 200

<210> 131
<211> 200
<212> DNA
<213> Amaranthus lividus

<400> 131

tttaccattc cagagcacga aacgaggggc atcaggatct cccaaaacca aatcgtcttt 60

caatccactg tcaaccgcca tagtaagcac aggatcagag ggttggaaac tattaggacc 120

ctcttcccag atatagccat cggactccat ggtagtaata ttacctccaa cacgatgttt 180

agcttcagtg acaatgaaat 200

<210> 132
<211> 200
<212> DNA
<213> Amaranthus lividus

<400> 132

tcgtttcgtg ctctggaatg gtaaattaag gcctgttcct tctaaaccta cggaccttcc 60

ctttttgat ctcatgagct ttcctggtaa gattagggct ggtcttggtg cacttggtct 120

tcgtcctcct cctcctcctc cttcttatga ggaatctgtt gaagaatttg tgcgccgtaa 180

tctcggcgat gaggtcttcg 200

<210> 133
<211> 200
<212> DNA
<213> Amaranthus lividus

<400> 133

cgaagacctc atcgccgaga ttacggcgca caaattcttc aacagattcc tcataagaag 60

gaggaggagg aggaggacga agaccaagtg caccaagacc agccctaatc ttaccaggaa 120

agctcatgag atcaaaaaag ggaaggtccg taggtttaga aggaacaggc cttaatttac 180

cattccagag cacgaaacga 200

<210> 134
<211> 200
<212> DNA
<213> Amaranthus lividus

<400> 134

cgtaatctcg gcgatgaggt cttcgaacgc ttaatcgaac ccttttgttc tggtgtgtat 60

gctggtgatc ctacaaagtt gagtatgaaa gctgcatttg gaaaggtctg gaccttagag 120

caaaagggtg gtagtatcat cgccggtaca ctcaaatcta ttcaggaaag gaagaataat 180

cctccacccc ctcgagaccc 200

<210> 135
<211> 200
<212> DNA
<213> Amaranthus lividus

<400> 135

gggtctcgag ggggtggagg attattcttc ctttcctgaa tagatttgag tgtaccggcg 60

atgatactac cacccttttg ctctaaggtc cagacctttc caaatgcagc tttcatactc 120

aactttgtag gatcaccagc atacacacca gaacaaaagg gttcgattaa gcgttcgaag 180

acctcatcgc cgagattacg 200

<210> 136
<211> 200
<212> DNA
<213> Amaranthus lividus

<400> 136

ataatcctcc acccctcga gacccccgcc ttcctaaacc taagggccag actgttggat 60

cctttaggaa agggctcatt atgttaccta ccgccattgc tgctaggctt ggcagtaaag 120

tcaaactatc gtggacactt tctaatattg ataagtcgct caatggtgaa tacaatctca 180

cttatcaaac acccgatgga 200

<210> 137
<211> 200
<212> DNA
<213> Amaranthus lividus

<400> 137

tccatcgggt gtttgataag tgagattgta ttcaccattg agcgacttat caatattaga 60

aagtgtccac gatagtttga ctttactgcc aagcctagca gcaatggcgg taggtaacat 120

aatgagccct ttcctaaagg atccaacagt ctggccctta ggtttaggaa ggcgggggtc 180

tcgaggggt ggaggattat 200

<210> 138
<211> 200
<212> DNA
<213> Amaranthus lividus

<400> 138

tctcacttat caaacacccg atggaccggt ttctgttagg accaaagcgg ttgtcatgac 60

tgtaccttca tacattgcaa gtagcctgct tcgtccactc tcagatgttg ctgcagattc 120

tctttctaag ttttactatc caccagtcgc agcagtgtcc ctttcttatc ccaaggaagc 180

aattagacca gaatgcttga 200

<210> 139
<211> 200
<212> DNA
<213> Amaranthus lividus

<400> 139

tcaagcattc tggtctaatt gcttccttgg gataagaaag ggacactgct gcgactggtg 60

gatagtaaaa cttagaaaga gaatctgcag caacatctga gagtggacga agcaggctac 120

ttgcaatgta tgaaggtaca gtcatgacaa ccgctttggt cctaacagaa accggtccat 180

cgggtgtttg ataagtgaga 200

<210> 140
<211> 200
<212> DNA
<213> Amaranthus lividus

<400> 140

gaagcaatta gaccagaatg cttgatcgat ggagaactaa aaggattcgg gcaattgcat 60

ccccgcagcc agggtgtgga aaccttggga acaatttata gttcatctct tttccctggt 120

cgagcaccac ccggtaggac cttgatcttg agctacattg gaggtgctac aaatgttgga 180

atattacaaa agagtgaaga 200

<210> 141
<211> 200
<212> DNA
<213> Amaranthus lividus

<400> 141

tcttcactct tttgtaatat tccaacattt gtagcacctc caatgtagct caagatcaag 60

gtcctaccgg gtggtgctcg accagggaaa agagatgaac tataaattgt tcccaaggtt 120

tccacaccct ggctgcgggg atgcaattgc ccgaatcctt ttagttctcc atcgatcaag 180

cattctggtc taattgcttc 200

<210> 142
<211> 200
<212> DNA
<213> Amaranthus lividus

<400> 142

ttggaatatt acaaaagagt gaagatgaac ttgcggagac agttgataag gatctcagaa 60

aaattctgat aaatccaaat gcgaaaggca gccgtgttct gggagtgaga gtatggccaa 120

aggcaatccc ccaattttta gttggtcact ttgatctgct agatgctgca aaagctggtt 180

tggcaaatgc tgggctaaag 200

<210> 143
<211> 200
<212> DNA
<213> Amaranthus lividus

<400> 143

ctttagccca gcatttgcca aaccagcttt tgcagcatct agcagatcaa agtgaccaac 60

taaaaattgg gggattgcct ttggccatac tctcactccc agaacacggc tgcctttcgc 120

atttggattt atcagaattt ttctgagatc cttatcaact gtctccgcaa gttcatcttc 180

actcttttgt aatattccaa 200

<210> 144
<211> 200
<212> DNA
<213> Amaranthus lividus

<400> 144

tggtttggca aatgctgggc taaaggggtt gtttcttggt ggtaattatg tatcaggtgt 60

tgccttgggg aggtgtatag agggtgctta tgactctgca tctcaggtag tggatttcct 120

ctcacagtac aaagacaagt agtcaatagg gctccacctt cctggttaac taacttttg 180

tagctgttgt aatttgtatc 200

<210> 145
<211> 200
<212> DNA
<213> Amaranthus lividus

<400> 145

gatacaaatt acaacagcta caaaaagtta gttaaccagg aaggtggagc cctattgact 60

acttgtcttt gtactgtgag aggaaatcca ctacctgaga tgcagagtca taagcaccct 120

ctatacacct ccccaaggca acacctgata cataattacc accaagaaac aaccccttta 180

gcccagcatt tgccaaacca 200

<210> 146
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 146

aatccttgat ttgaagatag gataaccaga gagagtgcaa gagagatgag tgccatggcg 60

ttatcgagca gcattctaca atgtccgccg cactccgaca tctctttccg cttttctgct 120

tatacaccaa cccgctcccc catcttcttc ggaagacctc gaaaattatc atatatccat 180

tgttccacaa gctcaagctc 200

<210> 147
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 147

gagcttgagc ttgtggaaca atggatatat gataattttc gaggtcttcc gaagaagatg 60

ggggagcggg ttggtgtata agcagaaaag cggaaagaga tgtcggagtg cggcggacat 120

tgtagaatgc tgctcgataa cgccatggca ctcatctctc ttgcactctc tctggttatc 180

ctatcttcaa atcaaggatt 200

<210> 148
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 148

tccattgttc cacaagctca agctcaactg ccaattacca gaacacgatt acgacccaag 60

gagaaggaga taaagtattg gattgtgtaa ttgttggagc tggtatcagt ggactttgca 120

ttgctcaggc tctttctacc aaacacattc aatccaatct caatttcatt gtcactgaag 180

ctaaaaatcg tgttggaggt 200

<210> 149
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 149

acctccaaca cgatttttag cttcagtgac aatgaaattg agattggatt gaatgtgttt 60

ggtagaaaga gcctgagcaa tgcaaagtcc actgatacca gctccaacaa ttacacaatc 120

caatacttta tctccttctc cttgggtcgt aatcgtgttc tggtaattgg cagttgagct 180

tgagcttgtg gaacaatgga 200

<210> 150
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 150

tgaagctaaa aatcgtgttg gaggtaatat cactaccatg gagtccgatg gctatatctg 60

ggaagagggt cctaatagtt tccaaccctc cgatcctgtg cttactatgg cggttgacag 120

tggattgaaa gatgatttgg tcttgggaga tcctaatgct cctcgttttg tgctctggaa 180

tggtaaatta aggcctgttc 200

<210> 151
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 151

gaacaggcct taatttacca ttccagagca caaaacgagg agcattagga tctcccaaga 60

ccaaatcatc tttcaatcca ctgtcaaccg ccatagtaag cacaggatcg gagggttgga 120

aactattagg accctcttcc cagatatagc catcggactc catggtagtg atattacctc 180

caacacgatt tttagcttca 200

<210> 152
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 152

tggaatggta aattaaggcc tgttccttcc aaacctacgg accttccctt ttttgatctc 60

atgagctttc ctggtaagat tagggctggt cttggtgcac ttggtcttcg tccttctcct 120

cctcctcctt cttatgagga atctgttgaa gaatttgtgc gccgtaatct cggcgatgag 180

gtcttcgaac gcttgatcga 200

<210> 153
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 153

tcgatcaagc gttcgaagac ctcatcgccg agattacggc gcacaaattc ttcaacagat 60

tcctcataag aaggaggagg aggagaagga cgaagaccaa gtgcaccaag accagcccta 120

atcttaccag gaaagctcat gagatcaaaa aagggaaggt ccgtaggttt ggaaggaaca 180

ggccttaatt taccattcca 200

<210> 154
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 154

atgaggtctt cgaacgcttg atcgaaccct tttgttctgg tgtgtatgct ggtgatcctt 60

caaagttgag tatgaaagct gcatttggaa aggtctggac cttagagcaa aagggtggta 120

gtatcatcgc cggtacactc aaaactattc aggaaaggaa gaataatcct ccaccgcctc 180

gagacccccg ccttcctaaa 200

<210> 155
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 155

tttaggaagg cgggggtctc gaggcggtgg aggattattc ttcctttcct gaatagtttt 60

gagtgtaccg gcgatgatac taccaccctt ttgctctaag gtccagacct ttccaaatgc 120

agctttcata ctcaactttg aaggatcacc agcatacaca ccagaacaaa agggttcgat 180

caagcgttcg aagacctcat 200

<210> 156
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 156

gcctcgagac ccccgccttc ctaaacctaa gggccagact gttggatcct ttaggaaagg 60

gctcattatg ttacctaccg ccattgctgc taggcttggc agtaaagtca aactatcgtg 120

gacactttct aatattgata agtcgctcaa tggtgaatac aatctcactt atcaaacacc 180

cgatggaccg gtttctgtta 200

<210> 157
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 157

taacagaaac cggtccatcg ggtgtttgat aagtgagatt gtattcacca ttgagcgact 60

tatcaatatt agaaagtgtc cacgatagtt tgactttact gccaagccta gcagcaatgg 120

cggtaggtaa cataatgagc cctttcctaa aggatccaac agtctggccc ttaggtttag 180

gaaggcgggg gtctcgaggc 200

<210> 158
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 158

acacccgatg gaccggtttc tgttaggacc aaagcggttg tcatgactgt cccttcatac 60

attgcaagta gcctgcttcg tccgctctca tgatgttgct gcagattctc tttctaaatt 120

ttactatcca ccagtcgcag cagtgtccct ttcttatccc aaagaagcaa ttagaccaga 180

atgcttgatc gatggagaac 200

<210> 159
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 159

gttctccatc gatcaagcat tctggtctaa ttgcttcttt gggataagaa agggacactg 60

ctgcgactgg tggatagtaa aatttagaaa gagaatctgc agcaacatca tgagagcgga 120

cgaagcaggc tacttgcaat gtatgaaggg acagtcatga caaccgcttt ggtcctaaca 180

gaaaccggtc catcgggtgt 200

<210> 160
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 160

ccagaatgct tgatcgatgg agaactaaaa ggattcgggc aattgcatcc cgcagccagg 60

gtgtggaaac cttgggaaca atttatagtt catctctttt ccctggtcga gcaccacctg 120

gtaggacctt gatcttgagc tacattggag gtgctacaaa tgttggcata ttacaaaaga 180

gtgaagatga acttgcggag 200

<210> 161
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 161

ctccgcaagt tcatcttcac tcttttgtaa tatgccaaca tttgtagcac ctccaatgta 60

gctcaagatc aaggtcctac caggtggtgc tcgaccaggg aaaagagatg aactataaat 120

tgttcccaag gtttccacac cctggctgcg ggatgcaatt gcccgaatcc ttttagttct 180

ccatcgatca agcattctgg 200

<210> 162
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 162

aaagagtgaa gatgaacttg cggagacagt tgataaggat ctcagaaaaa ttctgataaa 60

tccaaatgcg aaaggcagcc gtgttctggg agtgagagta tggccaaagg caatccccca 120

atttttagta ggtcattttg atctgctaga tgctgcaaaa gcgggtttgg caaatgctgg 180

actaaagggg ttgtttcttg 200

<210> 163
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 163

caagaaacaa ccccttttagt ccagcatttg ccaaacccgc ttttgcagca tctagcagat 60

caaaatgacc tactaaaaat tgggggattg cctttggcca tactctcact cccagaacac 120

ggctgccttt cgcatttgga tttatcagaa tttttctgag atccttatca actgtctccg 180

caagttcatc ttcactcttt 200

<210> 164
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 164

gctggactaa aggggttgtt tcttggtggt aattatgtat caggtgttgc cttggggagg 60

tgtatagagg gtgcttatga ctctgcatct caggttgtgg atttcctctc acagtacaaa 120

gacaagtagt catcctgatt aactaacttt ttgtagctgt tgtaatttgt atcatgtaat 180

attattattt attcagatgt 200

<210> 165
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 165

acatctgaat aaataataat attacatgat acaaattaca acagctacaa aaagttagtt 60

aatcaggatg actacttgtc tttgtactgt gagaggaaat ccacaacctg agatgcagag 120

tcataagcac cctctataca cctccccaag gcaacacctg atacataatt accaccaaga 180

aacaacccct ttagtccagc 200

<210> 166
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 166

acataaaacc gctacatgga ggcacggttt tgtgtcaaat gtaaaccact actccatgta 60

gcggtttggt gcacatactt ttcaactctc agtgtgttgc tgacgtggac ggtagtgcgg 120

gaattatttt acaaagtaac gtaaagtggg aatttttttt aaataagctg cattttgggc 180

aaagactcta cttttacttt 200

<210> 167
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 167

aaagtaaaag tagagtcttt gcccaaaatg cagcttattt aaaaaaaatt cccactttac 60

gttactttgt aaaataattc ccgcactacc gtccacgtca gcaacacact gagagttgaa 120

aagtatgtgc accaaaccgc tacatggagt agtggtttac atttgacaca aaaccgtgcc 180

tccatgtagc ggttttatgt 200

<210> 168
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 168

tgggcaaaga ctctactttt acttttaatt ttatttttaa ttttaataaa gaaggaagaa 60

aaaaaacaaa tgtatttatg gataaagaat ccttgatttg aagataggat aaccagagag 120

agggcaagag agatgagtgc catggcgtta tcgagcagca ttctacaatg tctgccgcac 180

tccgacatct ctttccgctt 200

<210> 169
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 169

aagcggaaag agatgtcgga gtgcggcaga cattgtagaa tgctgctcga taacgccatg 60

gcactcatct ctcttgccct ctctctggtt atcctatctt caaatcaagg attctttatc 120

cataaataca tttgtttttt ttcttccttc tttattaaaa ttaaaaataa aattaaaagt 180

aaaagtagag tctttgccca 200

<210> 170
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 170

cgcactccga catctctttc cgcttttctg cttatacacc aacccgctcc cccatcttct 60

tcggaagacc acgaaaatta tcatatatcc attgttccac aagctcaagc tcaactgcca 120

attaccagaa cacgattacg acccaaggag aaggagataa agtattggat tgtgtaattg 180

ttggagctgg tatcagtgga 200

<210> 171
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 171

tccactgata ccagctccaa caattacaca atccaatact ttatctcctt ctccttgggt 60

cgtaatcgtg ttctggtaat tggcagttga gcttgagctt gtggaacaat ggatatatga 120

taattttcgt ggtcttccga agaagatggg ggagcgggtt ggtgtataag cagaaaagcg 180

gaaagagatg tcggagtgcg 200

<210> 172
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 172

aattgttgga gctggtatca gtggactttg cattgctcag gctctttcta ctaaacacat 60

tcaatccaat ctcaatttca ttgtcactga agctaaaaat cgtgttggag gtaatatcac 120

taccatggag tccgatggct atatctggga agagggtcct aatagtttcc aaccctccga 180

tcctgtgctt actatggcgg 200

<210> 173
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 173

ccgccatagt aagcacagga tcggagggtt ggaaactatt aggaccctct tcccagatat 60

agccatcgga ctccatggta gtgatattac ctccaacacg atttttagct tcagtgacaa 120

tgaaattgag attggattga atgtgtttag tagaaagagc ctgagcaatg caaagtccac 180

tgataccagc tccaacaatt 200

<210> 174
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 174

tccgatcctg tgcttactat ggcggtaaac tcattcttct ctctttctcc aatttttgat 60

cattctattc aattttcccc ttattgagtc aaaatcaaat tccaggttga cagtggattg 120

aaagatgatt tggtcttggg agatcctaat gctcctcgtt ttgtgctctg gaatggtaaa 180

ttaaggcctg ttccttccaa 200

<210> 175
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 175

ttggaaggaa caggccttaa tttaccattc cagagcacaa aacgaggagc attaggatct 60

cccaagacca aatcatcttt caatccactg tcaacctgga atttgatttt gactcaataa 120

ggggaaaatt gaatagaatg atcaaaaatt ggagaaagag agaagaatga gtttaccgcc 180

atagtaagca caggatcgga 200

<210> 176
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 176

gtaaattaag gcctgttcct tccaaaccta cggaccttcc ctttttgat ctcatgagct 60

ttcctggtaa gattagggct ggtcttggtg cacttggtct tcgtccttct ccccctcctc 120

cttcttatga ggaatctgtt gaagagtttg tgcgccgtaa tctcggcgat gaggtcttcg 180

aacgcttgat cgaacccttt 200

<210> 177
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 177

aaagggttcg atcaagcgtt cgaagacctc atcgccgaga ttacggcgca caaactcttc 60

aacagattcc tcataagaag gaggaggggg agaaggacga agaccaagtg caccaagacc 120

agccctaatc ttaccaggaa agctcatgag atcaaaaaag ggaaggtccg taggtttgga 180

aggaacaggc cttaatttac 200

<210> 178
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 178

cttcgaacgc ttgatcgaac ccttttgttc tggtacctac cctgtttaat ttttcagttt 60

tccccctttt ttctctacta ctcctacttt attgattctt atctatgagt gttctatggg 120

aattgacatt aattgttcag gtgtgtatgc tggtgatcct tcaaagttga gtatgaaagc 180

tgcatttgga aaggtctgga 200

<210> 179
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 179

tccagacctt tccaaatgca gctttcatac tcaactttga aggatcacca gcatacacac 60

ctgaacaatt aatgtcaatt cccatagaac actcatagat aagaatcaat aaagtaggag 120

tagtagagaa aaaaggggga aaactgaaaa attaaacagg gtaggtacca gaacaaaagg 180

gttcgatcaa gcgttcgaag 200

<210> 180
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 180

aaagctgcat ttggaaaggt ctggacctta gagcaaaagg gtggtagtat catcgccggt 60

acactcaaaa ctattcagga aaggaagaat aatcctccac cgcctcgaga cccgtccgta 120

atcaccatta ctcattgctt tccttcacct tgtatcttac cttaatatac atgtatttaa 180

ttgataatgt cacattgcct 200

<210> 181
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 181

aggcaatgtg acattatcaa ttaaatacat gtatattaag gtaagataca aggtgaagga 60

aagcaatgag taatggtgat tacggacggg tctcgaggcg gtggaggatt attcttcctt 120

tcctgaatag ttttgagtgt accggcgatg atactaccac ccttttgctc taaggtccag 180

acctttccaa atgcagcttt 200

<210> 182
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 182

tttaattgat aatgtcacat tgcctcattt gcagccgcct tcctaaacct aagggccaga 60

ctgttggatc ctttaggaaa gggctcatta tgttacctac cgccattgct gctaggtatc 120

ttttgactct caaatcttaa atatttctca tcttttcctt ctgctaatac tagtatgttt 180

accatctttt tatttttta 200

<210> 183
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 183

taaaaaaata aaaagatggt aaacatacta gtattagcag aaggaaaaga tgagaaatat 60

ttaagatttg agagtcaaaa gatacctagc agcaatggcg gtaggtaaca taatgagccc 120

tttcctaaag gatccaacag tctggccctt aggtttagga aggcggctgc aaatgaggca 180

atgtgacatt atcaattaaa 200

<210> 184
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 184

tgtttaccat ctttttattt ttttaggctt ggcagtaaag tcaaactatc gtggacactt 60

tctaatattg ataagtcgct caatggtgaa tacaatctca cttatcaaac acccgatgga 120

ccggtttctg ttaggaccaa agcggttgtc atgactgtcc cttcatacat tgcaagtagc 180

ctgcttcgtc cgctctcagt 200

<210> 185
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 185

actgagagcg gacgaagcag gctacttgca atgtatgaag ggacagtcat gacaaccgct 60

ttggtcctaa cagaaaccgg tccatcgggt gtttgataag tgagattgta ttcaccattg 120

agcgacttat caatattaga aagtgtccac gatagtttga ctttactgcc aagcctaaaa 180

aaataaaaag atggtaaaca 200

<210> 186
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 186

gtagcctgct tcgtccgctc tcagtgagta tcattctttc cttcatttct tttcgtttat 60

tgctgtccaa tgtcttgtta aacaccagtt tggccttgtg ctcgtgaatt atggctacaa 120

tgttaactga ttctgtgatt caggcactgt gggagatgcc taagtttcta aaacctctgc 180

gcataatgtt tgtttggatg 200

<210> 187
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 187

catccaaaca aacattatgc gcagaggttt tagaaactta ggcatctccc acagtgcctg 60

aatcacagaa tcagttaaca ttgtagccat aattcacgag cacaaggcca aactggtgtt 120

taacaagaca ttggacagca ataaacgaaa agaaatgaag gaaagaatga tactcactga 180

gagcggacga agcaggctac 200

<210> 188
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 188

tctgcgcata atgtttgttt ggatgttagg aattgcattg aaaaattgct tttgtgatgt 60

tgatgttaat accaattaca agtgtgttct tcaacttctg caataccttg ttcgagtgag 120

cttgaggggg tttagattag tgtccaatgt gaaactagca aatgaactcc aagcgctggg 180

ataggtcctt gggatggagc 200

<210> 189
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 189

gctccatccc aaggacctat cccagcgctt ggagttcatt tgctagtttc acattggaca 60

ctaatctaaa ccccctcaag ctcactcgaa caaggtattg cagaagttga agaacacact 120

tgtaattggt attaacatca acatcacaaa agcaattttt caatgcaatt cctaacatcc 180

aaacaaacat tatgcgcaga 200

<210> 190
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 190

ctgggatagg tccttgggat ggagcccctg atacccaaga cagtattcaa accctctaag 60

tagagtgaga gatcaaggaa agaaactggg tggttcctca aatcgtaaaa aatgaataca 120

gtgtcatgat tgctaatctt atcacaaatc gtaaaaaatg aattatggtc gattttggac 180

tatttttggg tcattttgag 200

<210> 191
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 191

ctcaaaatga cccaaaaata gtccaaaatc gaccataatt catttttac gatttgtgat 60

aagattagca atcatgacac tgtattcatt ttttacgatt tgaggaacca cccagtttct 120

ttccttgatc tctcactcta cttagagggt ttgaatactg tcttgggtat caggggctcc 180

atcccaagga cctatcccag 200

<210> 192
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 192

tggactattt ttgggtcatt ttgagtgaat ctcaaactta aaaagcgagt cttctagcag 60

ttcttgttac agcggggcat acataggtag gaatttggtt ttttactatt tgagcctttt 120

gactgttgtg gccggtaata tggaatagtc tagcacttct gcgtgtgtac aactagtatt 180

tattgtaatt atgtgatcgc 200

<210> 193
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 193

gcgatcacat aattacaata aatactagtt gtacacacgc agaagtgcta gactattcca 60

tattaccggc cacaacagtc aaaaggctca aatagtaaaa aaccaaattc ctacctatgt 120

atgccccgct gtaacaagaa ctgctagaag actcgctttt taagtttgag attcactcaa 180

aatgacccaa aaatagtcca 200

<210> 194
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 194

gtatttattg taattatgtg atcgcactta actctcagat aaaaccttaa gcactaacat 60

tttgttttgg ttgaaggaat caggaggaaa gaaaattgag ggatttgttg gtatatagat 120

tcctttgttt ggataacaaa attggagtgg agagatttgg aaggaagaat tttataggga 180

ttagttccca ttacacttat 200

<210> 195
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 195

ataagtgtaa tgggaactaa tccctataaa attcttcctt ccaaatctct ccactccaat 60

tttgttatcc aaacaaagga atctatatac caacaaatcc ctcaattttc tttcctcctg 120

attccttcaa ccaaaacaaa atgttagtgc ttaaggtttt atctgagagt taagtgcgat 180

cacataatta caataaatac 200

<210> 196
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 196

attatatgtc atgtaatata aatagaaaat tattatttaa ataattaatt tcaaactttg 60

tatcaataaa acacttaatt ttttgattat tagagtgtat atgaaaaata tgtaaaaaaa 120

agtcgtacat aagaaaattt cattgtaatt aagactaaat ttgatgaatc gattcgtaaa 180

attgctctat gatcctacaa 200

<210> 197
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 197

ttgtaggatc atagagcaat tttacgaatc gattcatcaa atttagtctt aattacaatg 60

aaattttctt atgtacgact ttttttttaca tatttttcat atacactcta ataatcaaaa 120

aattaagtgt tttattgata caaagtttga aattaattat ttaaataata attttctatt 180

tatattacat gacatataat 200

<210> 198
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 198

gtaaaattgc tctatgatcc tacaacccac ttatttattt caattaggac tgtaattaag 60

tttaaattta cattagttga attattgcct tttatgagag atgtggtatc gtatgctatc 120

taaaggctaa aactattaag tcgatttaaa atctatccaa attttatact taattgaact 180

aggttgaatt gaacggagaa 200

<210> 199
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 199

ttctccgttc aattcaacct agttcaatta agtataaaat ttggatagat tttaaatcga 60

cttaatagtt ttagccttta gatagcatac gataccacat ctctcataaa aggcaataat 120

tcaactaatg taaatttaaa cttaattaca gtcctaattg aaataaataa gtgggttgta 180

ggatcataga gcaattttac 200

<210> 200
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 200

gaactaggtt gaattgaacg gagaattaat caaaaatgta ccacccttga atcactatca 60

atattaaagc aaaccaactt taatccataa atgaaaatca acttagtcaa atcacatatg 120

aacccgtcaa tcatgccaaa aactctgaga gtgtttgata ttataactta ttagaaaatt 180

ttaacttatt tgacgcaaat 200

<210> 201
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 201

atttgcgtca ataagttaa aattttctaa taagttataa tatcaaacac tctcagagtt 60

tttggcatga ttgacgggtt catatgtgat ttgactaagt tgattttcat ttatggatta 120

aagttggttt gctttaatat tgatagtgat tcaagggtgg tacatttttg attaattctc 180

cgttcaattc aacctagttc 200

<210> 202
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 202

aaatttaac ttatttgacg caaatagacg gataagtgtt ctaaccatct agctctagtg 60

tttcgcttaa taaaaataaa taatttttaa acatgctcct ataaatcaac tgatcaaacc 120

ggtttataaa atcaccaact aaatcgaccc attcaaatca aataccaact cggtcgtttg 180

ccaaacactt cgctatgact 200

<210> 203
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 203

agtcatagcg aagtgtttgg caaacgaccg agttggtatt tgatttgaat gggtcgattt 60

agttggtgat tttataaacc ggtttgatca gttgatttat aggagcatgt ttaaaaatta 120

tttatttta ttaagcgaaa cactagagct agatggttag aacacttatc cgtctatttg 180

cgtcaaataa gttaaaattt 200

<210> 204
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 204

gtttgccaaa cacttcgcta tgacttcaat caaacaaaat gcaacttgtt tgctgctacc 60

gacttaccgc cttacccagt acgcggaaaa gataatcaat gagaatcaaa ttcaaatctt 120

gacaagataa tatgattatc ccattattat caatttaatt atgattaacc ttttttaaga 180

taacctaata attcattgat 200

<210> 205
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 205

atcaatgaat tattaggtta tcttaaaaaa ggttaatcat aattaaattg ataataatgg 60

gataatcata ttatcttgtc aagatttgaa tttgattctc attgattatc ttttccgcgt 120

actgggtaag gcggtaagtc ggtagcagca aacaagttgc attttgtttg attgaagtca 180

tagcgaagtg tttggcaaac 200

<210> 206
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 206

taagataacc taataattca ttgataagaa tgattagctt gtttaatcaa cttcaattta 60

caatttctac cttggaaaat tcaaaccaaa aagtgtaaaa gaattgattt ggcagattgc 120

gacaattgga ttgagaaatt gacaaattta aactgatctt atggtaattc aatccataac 180

ccacctttca ccaaaacttg 200

<210> 207
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 207

caagttttgg tgaaaggtgg gttatggatt gaattaccat aagatcagtt taaatttgtc 60

aatttctcaa tccaattgtc gcaatctgcc aaatcaattc ttttacactt tttggtttga 120

attttccaag gtagaaattg taaattgaag ttgattaaac aagctaatca ttcttatcaa 180

tgaattatta ggttatctta 200

<210> 208
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 208

ataacccacc tttcaccaaa acttgcattg ccatcgccat tgtcaatttc cgccaagaac 60

tacccagtag ctgtaatggg caacatttct gagcgggaag aacccagtaa gtcaaccttt 120

cttcatatat cttaagcaat ccctttttgaa ctacactttc ttttgatgat tttacattct 180

gaattgtttt tattggggat 200

<210> 209
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 209

atccccaata aaaacaattc agaatgtaaa atcatcaaaa gaaagtgtag ttcaaaaggg 60

attgcttaag atatatgaag aaaggttgac ttactgggtt cttcccgctc agaaatgttg 120

cccattacag ctactgggta gttcttggcg gaaattgaca atggcgatgg caatgcaagt 180

tttggtgaaa ggtgggttat 200

<210> 210
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 210

attctgaatt gtttttattg gggattttca gcttctgcga aaagggttgc tgttgttggt 60

gctggagtta ggtaaatttt atgttacttt tccagaaaga ttgtgaaatt ttgctttgat 120

tgttctgaat tttgatgggt ttttgcataa tgatttgtat ttgggatggg caaatttttc 180

agaagatcat actacttttt 200

<210> 211
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 211

aaaaagtagt atgatcttct gaaaaatttg cccatcccaa atacaaatca ttatgcaaaa 60

acccatcaaa attcagaaca atcaaagcaa aatttcacaa tctttctgga aaagtaacat 120

aaaatttacc taactccagc accaacaaca gcaacccttt tcgcagaagc tgaaaatccc 180

caataaaaac aattcagaat 200

<210> 212
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 212

ttttcagaag atcatactac tttttaactt gtgttttctg tagaatttta ttgattttct 60

aaactgtttt tgtgggattg ttctagtgga cttgctgctg catataagct aaaatcccat 120

ggtttgagtg tgacattgtt tgaagctgat tctagagctg gaggcaagct taaaactgtt 180

aaaaaagatg gttttatttg 200

<210> 213
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 213

caaataaaac catctttttt aacagtttta agcttgcctc cagctctaga atcagcttca 60

aacaatgtca cactcaaacc atgggatttt agcttatatg cagcagcaag tccactagaa 120

caatcccaca aaaacagttt agaaaatcaa taaaattcta cagaaaacac aagttaaaaa 180

gtagtatgat cttctgaaaa 200

<210> 214
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 214

ctgttaaaaa agatggtttt atttgggatg agggggcaaa tactatggta atgtttatca 60

acaatgctgg ttttctgata tagaaccaat tacttattta ttaactggat ttttggtcaa 120

acctgtggtt ggcatgtcac tttatgctat gattgtagac agaaagtgag gcagaggtgt 180

cgagtttgat cgatgatctt 200

<210> 215
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 215

aagatcatcg atcaaactcg acacctctgc ctcactttct gtctacaatc atagcataaa 60

gtgacatgcc aaccacaggt ttgaccaaaa atccagttaa taaataagta attggttcta 120

tatcagaaaa ccagcattgt tgataaacat taccatagta tttgccccct catcccaaat 180

aaaaccatct tttttaacag 200

<210> 216
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 216

ggtgtcgagt ttgatcgatg atcttgggct tcgtgagaag caacagttgg taagttttcc 60

gtctaagccc attccctttg ctctctaggt gcaaaaatac ggtaatagtc atgatcgtgg 120

taatgacatg gtgatgcggt gacgggagtt atgtgatcgc tattccaact ataggtcgaa 180

aacatgatat tttccttgtg 200

<210> 217
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 217

cacaaggaaa atatcatgtt ttcgacctat agttggaata gcgatcacat aactcccgtc 60

accgcatcac catgtcatta ccacgatcat gactattacc gtatttttgc acctagagag 120

caaagggaat gggcttagac ggaaaactta ccaactgttg cttctcacga agcccaagat 180

catcgatcaa actcgacacc 200

<210> 218
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 218

tcgaaaacat gatattttcc ttgtgacgtt ccgaaatgcg gtatttttac acctttacat 60

tgcggggaaa aataggttta gttttttga ataccttac aaggcggctg atgcgatgaa 120

gccttgtttt tgcattatgt gctagaagca aattattata tctttaatta atgtaatgta 180

tcatcagctt aaaacagcct 200

<210> 219
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 219

aggctgtttt aagctgatga tacattacat taattaaaga tataataatt tgcttctagc 60

acataatgca aaaacaaggc ttcatcgcat cagccgcctt gtaaaggtat tcaaaaaaac 120

taaacctatt tttccccgca atgtaaaggt gtaaaaatac cgcatttcgg aacgtcacaa 180

ggaaaatatc atgttttcga 200

<210> 220
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 220

atgtatcatc agcttaaaac agccttattg tacttcttaa tctagttttg acttttgagg 60

ttgcttttac gagatcctta taaattgctt tttctgtcac agccaatttc acaaaataaa 120

aggtacatag ctagagatgg tcttccggtg ctagtaagtc ctctgcattt tcttttgacc 180

tctatgaact tctaacactg 200

<210> 221
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 221

cagtgttaga agttcataga ggtcaaaaga aaatgcagag gacttactag caccggaaga 60

ccatctctag ctatgtacct tttattttgt gaaattggct gtgacagaaa aagcaattta 120

taaggatctc gtaaaagcaa cctcaaaagt caaaactaga ttaagaagta caataaggct 180

gttttaagct gatgatacat 200

<210> 222
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 222

tgacctctat gaacttctaa cactggatac tgagttgtat ttgtattcga ggcaaattct 60

atattttcca atctgtttct tattgacagt tacttgcaac ctttgcagct accttcaaat 120

cccgctgcac tgctcacgag caatttcctt tcagcaaaat caaaggttat ttatgctaaa 180

acatgtttgt ttgttttttt 200

<210> 223
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 223

aaaaaaacaa acaaacatgt tttagcataa ataacctttg attttgctga aaggaaattg 60

ctcgtgagca gtgcagcggg atttgaaggt agctgcaaag gttgcaagta actgtcaata 120

agaaacagat tggaaaatat agaatttgcc tcgaatacaa atacaactca gtatccagtg 180

ttagaagttc atagaggtca 200

<210> 224
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 224

ctaaaacatg tttgtttgtt ttttttaac ttagcttttg gtgtatgcaa taatttggtt 60

tctaaaacta agtgattgac cgaaaaggag ggacaaagga catagaattg caaatttttg 120

ttcttgacgt atttttactt ttagagcatc cccttgtgta aaacttttat tttagagctg 180

caagaatttg ttgcatcttt 200

<210> 225
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 225

aaagatgcaa caaattcttg cagctctaaa ataaaagttt tacacaaggg gatgctctaa 60

aagtaaaaat acgtcaagaa caaaaatttg caattctatg tcctttgtcc ctccttttcg 120

gtcaatcact tagttttaga aaccaaatta ttgcatacac caaaagctaa gttaaaaaaa 180

aacaaacaaa catgttttag 200

<210> 226
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 226

agctgcaaga atttgttgca tcttttgtta tgatttaatt ttgatgcttt tagctgcaac 60

agtttgttga taaaaaggcc actgcttttt tctcagctgc aaattatgtt ggaaccattt 120

ctctggaaaa aacgcaatgc tactgagctt tctgatgagc atgttcagga aaggcaagtg 180

cccttgctct atctatactg 200

<210> 227
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 227

cagtatagat agagcaaggg cacttgcctt tcctgaacat gctcatcaga aagctcagta 60

gcattgcgtt ttttccagag aaatggttcc aacataattt gcagctgaga aaaaagcagt 120

ggccttttta tcaacaaact gttgcagcta aaagcatcaa aattaaatca taacaaaaga 180

tgcaacaaat tcttgcagct 200

<210> 228
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 228

aagtgccctt gctctatcta tactgatgga aaggattatc gctgaattta ccttctactg 60

aaacatcaat aaaatacttc attattagca tcaaaatact ccctccatcc ttctggtttt 120

gctggacttt ccctatgaag gtgttcaagg agtagcttgc tacctttcaa gatagggtag 180

tggttgcctt ctcgcaaaat 200

<210> 229
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 229

attttgcgag aaggcaacca ctaccctatc ttgaaaggta gcaagctact ccttgaacac 60

cttcataggg aaagtccagc aaaaccagaa ggatggaggg agtattttga tgctaataat 120

gaagtatttt attgatgttt cagtagaagg taaattcagc gataatcctt tccatcagta 180

tagatagagc aagggcactt 200

<210> 230
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 230

ggtagtggtt gccttctcgc aaaatttcag tcactcgttt tcctctccta attcaagcca 60

tacttttat ggttcctcca cacaactctt gctaaatttg aaaagtagca aagaggaagt 120

gagcaaaatc agcaggagta ggactgatga gtaagagctt gatcaagtat aaaggatatg 180

tttctatgta gaatatgaat 200

<210> 231
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 231

attcatattc tacatagaaa catatccttt atacttgatc aagctcttac tcatcagtcc 60

tactcctgct gattttgctc acttcctctt tgctactttt caaatttagc aagagttgtg 120

tggaggaacc ataaaaagta tggcttgaat taggagagga aaacgagtga ctgaaatttt 180

gcgagaaggc aaccactacc 200

<210> 232
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 232

atatgtttct atgtagaata tgaatgcatt acctgtagaa ttgacataat gatttgtctg 60

cagtgttggc gaatttttg agcgacattt tgggaaagag gtattgttgc caacttgcca 120

tgctctattc cggtgaatta acaaatgttg cgcttctgct tactattgct tataattatt 180

gttttttgc agtttgttga 200

<210> 233
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 233

tcaacaaact gcaaaaaaac aataattata agcaatagta agcagaagcg caacatttgt 60

taattcaccg gaatagagca tggcaagttg gcaacaatac ctctttccca aaatgtcgct 120

caaaaaattc gccaacactg cagacaaatc attatgtcaa ttctacaggt aatgcattca 180

tattctacat agaaacatat 200

<210> 234
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 234

ttattgtttt tttgcagttt gttgattatg ttattgaccc ttttgttgcg ggtacatgtg 60

gtggagatcc tcaatcgcta tctgtaagtt aaatactgtg ccttcttttt ttttctcaaa 120

attttctgga ggttgtaaat aaattatact ccctcctatt ataatcaact gtcctatttc 180

ccctttggt atattcaaag 200

<210> 235
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 235

ctttgaatat accaaaaggg gaaataggac agttgattat aataggaggg agtataattt 60

atttacaacc tccagaaaat tttgagaaaa aaaaagaagg cacagtattt aacttacaga 120

tagcgattga ggatctccac cacatgtacc cgcaacaaaa gggtcaataa cataatcaac 180

aaactgcaaa aaaacaataa 200

<210> 236
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 236

atttcccctt ttggtatatt caaagtgagt taaatattgc catccattaa atttcacttt 60

gtcccttact tatttttcc cttactcact cctctcatgt ggtcccttaa actcggtgca 120

ttaccaaata ggactattga ttgaaatagg agggagtatc cgattgtgct tccaaaggta 180

gttcaactcc tcttcttttt 200

<210> 237
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 237

aaaaagaaga ggagttgaac tacctttgga agcacaatcg gatactccct cctatttcaa 60

tcaatagtcc tatttggtaa tgcaccgagt ttaagggacc acatgagagg agtgagtaag 120

ggaaaaaata agtaagggac aaagtgaaat ttaatggatg gcaatattta actcactttg 180

aatataccaa aaggggaaat 200

<210> 238
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 238

aggtagttca actcctcttc tttttcttta aatttttgta ccatactgtg catttgaac 60

cttaactcat ttcgccatga aggagtatta tatttgagaa gaacgcagat actattatct 120

tatacattag gtttcattat caatgattgt ttgattgtca actcctcttt tccctttcat 180

gctcatattg atgttatttc 200

<210> 239
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 239

gaaataacat caatatgagc atgaaaggga aaagaggagt tgacaatcaa acaatcattg 60

ataatgaaac ctaatgtata agataatagt atctgcgttc ttctcaaata taatactcct 120

tcatggcgaa atgagttaag gttcaaaatg cacagtatgg tacaaaaatt taaagaaaaa 180

gaagaggagt tgaactacct 200

<210> 240
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 240

ttcatgctca tattgatgtt atttctattt ggttatgaat tttgtgtatt gtgttaatgt 60

cttactttat tgtagatgca ccatacattt cccgacgtat ggaatgttga aaaaaggtat 120

gaatcttaaa gctttaattt tcttcgaacg ttatgtttca taattgattc tttgggatca 180

atttccgtaa gaacgataat 200

<210> 241
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 241

attatcgttc ttacggaaat tgatcccaaa gaatcaatta tgaaacataa cgttcgaaga 60

aaattaaagc tttaagattc ataccttttt tcaacattcc atacgtcggg aaatgtatgg 120

tgcatctaca ataaagtaag acattaacac aatacacaaa attcataacc aaatagaaat 180

aacatcaata tgagcatgaa 200

<210> 242
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 242

gatcaatttc cgtaagaacg ataatttgaa aaaatttatg aaccttcaag ctttcttcga 60

atttatatgc tttgtaattc atgcttttag atgctgcacc attttatcta tgtgtcttaa 120

gtttggtgta atcatttgta tagcaaaaga atgaatggtc tggtttgaaa tggttcatag 180

tgcaaaatgt gattgtgctt 200

<210> 243
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 243

aagcacaatc acattttgca ctatgaacca tttcaaacca gaccattcat tcttttgcta 60

tacaaatgat tacaccaaac ttaagacaca tagataaaat ggtgcagcat ctaaaagcat 120

gaattacaaa gcatataaat tcgaagaaag cttgaaggtt cataaatttt ttcaaattat 180

cgttcttacg gaaattgatc 200

<210> 244
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 244

catagtgcaa aatgtgattg tgcttgcgat tgaggtaaca ttcaaggtga tgcgattgtc 60

gtactgtcaa ttgtcgtcct ataccatgtg atatttgaat aagcctaaaa tgccatattg 120

tacaccttta ggatgtggac aaaatgggtt cggtttcggt acatatgaca aatccttgca 180

atttgatctg tacgatacaa 200

<210> 245
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 245

ttgtatcgta cagatcaaat tgcaaggatt tgtcatatgt accgaaaccg aacccatttt 60

gtccacatcc taaaggtgta caatatggca ttttaggctt attcaaatat cacatggtat 120

aggacgacaa ttgacagtac gacaatcgca tcaccttgaa tgttacctca atcgcaagca 180

caatcacatt ttgcactatg 200

<210> 246
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 246

ttgcaatttg atctgtacga tacaatgcga ttttgtcttt tgctttatga tggtgattcc 60

atatgcgatt ttagggctta gaaatttccc ttgttcaaga acatctcaat caatctttaa 120

ccaatttcaa ccacattaaa ttgcgtcaaa gtcgaacttt ataattcact cccaatctct 180

gagatatcca aactccaaaa 200

<210> 247
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 247

ttttggagtt tggatatctc agagattggg agtgaattat aaagttcgac tttgacgcaa 60

tttaatgtgg ttgaaattgg ttaaagattg attgagatgt tcttgaacaa gggaaatttc 120

taagccctaa aatcgcatat ggaatcacca tcataaagca aaagacaaaa tcgcattgta 180

tcgtacagat caaattgcaa 200

<210> 248
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 248

tctctgagat atccaaactc caaaagttct attggctttc atgttttcac aaagtaacgt 60

tggtgggact ccttaccatt ttctttatta tgcatttcgt tgatgtataa tagtatagat 120

tggtgctctt ttcgctgtcc ttctaacatg cataacttca ctagttctta tcgttttctt 180

ttcctcccta tttttatttg 200

<210> 249
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 249

caaataaaaa tagggaggaa aagaaaacga taagaactag tgaagttatg catgttagaa 60

ggacagcgaa aagagcacca atctatacta ttatacatca acgaaatgca taataaagaa 120

aatggtaagg agtcccacca acgttacttt gtgaaaacat gaaagccaat agaacttttg 180

gagtttggat atctcagaga 200

<210> 250
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 250

ttcttttcct ccctattttt atttgacttg tagctatcta tgttcactct tctcgcccaa 60

tccaatgtta tcttctactc catgcttgca aaagccacaa aatgctcact ccaccaataa 120

gaggaaattg ccagtccacc acttgctgga ggcatccatg gaagctgaag tatttttgtc 180

ctctactcat aggatgcata 200

<210> 251
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 251

tatgcatcct atgagtagag gacaaaaata cttcagcttc catggatgcc tccagcaagt 60

ggtggactgg caatttcctc ttattggtgg agtgagcatt ttgtggcttt tgcaagcatg 120

gagtagaaga taacattgga ttgggcgaga agagtgaaca tagatagcta caagtcaaat 180

aaaaataggg aggaaaagaa 200

<210> 252
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 252

ttgtcctcta ctcataggat gcatacatgc atcgatttac tttctaatac tcctttaact 60

tgattccgat tagctctgct cttaacaggt gttgctagaa aacatcaact attttcagca 120

taaattaaat gtgagcatta cctaataacg tgaaaactat caaatcttgt ttgtagtgca 180

atattgcgtt ttcggttgcg 200

<210> 253
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 253

cgcaaccgaa aacgcaatat tgcactacaa acaagatttg atagttttca cgttattagg 60

taatgctcac atttaattta tgctgaaaat agttgatgtt ttctagcaac acctgttaag 120

agcagagcta atcggaatca agttaaagga gtattagaaa gtaaatcgat gcatgtatgc 180

atcctatgag tagaggacaa 200

<210> 254
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 254

attattgtgt aattcttccc tcacgtctct attgtcttca ttttttaga aaaataaata 60

aagcttggtt ttatagattt tgtaactgat atgcaataca tttgcgtttg ctttcagtta 120

ttgattcaaa aacaataatg ctaaagccct aatcctaaca tgttgtgtca tctgttgaaa 180

caatacttga aatcgctata 200

<210> 255
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 255

tatagcgatt tcaagtattg tttcaacaga tgacacaaca tgttaggatt agggctttag 60

cattattgtt tttgaatcaa taactgaaag caaacgcaaa tgtattgcat atcagttaca 120

aaatctataa aaccaagctt tatttatttt tctaaaaaaa tgaagacaat agagacgtga 180

gggaagaatt acacaataat 200

<210> 256
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 256

tgaaacaata cttgaaatcg ctataaaaag ggatttttgt cgggtacttc agttgttgaa 60

attgatatgg tcaagtacaa ttcattttaa cccaatttgt aatgatttac tggcttggtt 120

tcttagctgt ttgttttaat aaaggatttt agttcggtat ttggttgttg aaaaaattga 180

tatggccaag taatggtcat 200

<210> 257
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 257

atgaccatta cttggccata tcaatttttt caacaaccaa ataccgaact aaaatccttt 60

attaaaacaa acagctaaga aaccaagcca gtaaatcatt acaaattggg ttaaaatgaa 120

ttgtacttga ccatatcaat ttcaacaact gaagtacccg acaaaaatcc ctttttatag 180

cgatttcaag tattgtttca 200

<210> 258
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 258

attgatatgg ccaagtaatg gtcatattaa cacaattggt aatgttttat tagctcaata 60

gtgtttgtta agtatgtgac tcaaatttaa tcaagtataa cttattgaag cgtagttctt 120

ttatccatta ggtttggctc tgtgtttgct ggactaattc aatcaacatt gttatctaag 180

aaggaaaagg gtggaggaga 200

<210> 259
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 259

tctcctccac ccttttcctt cttagataac aatgttgatt gaattagtcc agcaaacaca 60

gagccaaacc taatggataa aagaactacg cttcaataag ttatacttga ttaaatttga 120

gtcacatact taacaaacac tattgagcta ataaaacatt accaattgtg ttaatatgac 180

cattacttgg ccatatcaat 200

<210> 260
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 260

ctaagaagga aaagggtgga ggagaaaatg cttctatcaa gaagcctcgt gtacgcggtt 60

cattttcatt ccatggtgga atgcaggtat aaccttatag ccataatttc gctttttata 120

ccttatactt ccaaaatata ttgatgcatt ttcttgctac aatcacaaaa gctttgggaa 180

aaattctcaa ttttgtcaaa 200

<210> 261
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 261

tttgacaaaa ttgagaattt ttcccaaagc ttttgtgatt gtagcaagaa aatgcatcaa 60

tatattttgg aagtataagg tataaaaagc gaaattatgg ctataaggtt atacctgcat 120

tccaccatgg aatgaaaatg aaccgcgtac acgaggcttc ttgatagaag cattttctcc 180

tccacccttt tccttcttag 200

<210> 262
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 262

gggaaaaatt ctcaattttg tcaaatctac taaaataatt cattttggaa ccaaggtttt 60

ctatttcaga atacatggat gaagacatgc agtaagtatg gataaaataa tctagatgta 120

aaaggttttt agtctattaa gcaagaatat tataattcag agtcgtttca tcaataaagt 180

gttgtttaag tgcagcaatt 200

<210> 263
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 263

aattgctgca cttaaacaac actttattga tgaaacgact ctgaattata atattcttgc 60

ttaatagact aaaaaccttt tacatctaga ttattttatc catacttact gcatgtcttc 120

atccatgtat tctgaaatag aaaaccttgg ttccaaaatg aattatttta gtagatttga 180

caaaattgag aatttttccc 200

<210> 264
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 264

aaagtgttgt ttaagtgcag caattacatt ctgcttcaag caaaggctat cttaagactt 60

aagaggctcc caaaacatga ggaggtatga gaccttagag gccaaagaaa taaaatttga 120

tgaggagact tggtgagata ccttgcttcc aaaaatgata tatttttccc cttagacacc 180

tcagattatg acatttataa 200

<210> 265
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 265

ttataaatgt cataatctga ggtgtctaag gggaaaaata tatcattttt ggaagcaagg 60

tatctcacca agtctcctca tcaaatttta tttctttggc ctctaaggtc tcatacctcc 120

tcatgttttg ggagcctctt aagtcttaag atagcctttg cttgaagcag aatgtaattg 180

ctgcacttaa acaacacttt 200

<210> 266
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 266

acacctcaga ttatgacatt tataaggtgt ccctgcgtat tcgacgagat tttacgacct 60

atactctaaa gtctaaattg agtgagaaat gtgtatatgt gtaagaaagg aaagttagta 120

ccatgaattc catgtctacg acctcaaagt gttcatacca ttgaaattag tgagcttaca 180

attgttaaga aagcatcaac 200

<210> 267
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 267

gttgatgctt tcttaacaat tgtaagctca ctaatttcaa tggtatgaac actttgaggt 60

cgtagacatg gaattcatgg tactaacttt cctttcttac acatatacac atttctcact 120

caatttagac tttagagtat aggtcgtaaa atctcgtcga atacgcaggg acaccttata 180

aatgtcataa tctgaggtgt 200

<210> 268
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 268

ttacaattgt taagaaagca tcaactattc ataattgatc attgatgaag tgtgtaatag 60

acatgctagg tgaaattcga aagggatcta ctctgtcttt gagtttacaa tttgcttcta 120

gtttttagct atttataggt gctatcaaag ggttgaatat tgtttttct gaacattgtt 180

gccgagttgt gaagggagaa 200

<210> 269
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 269

ttctcccttc acaactcggc aacaatgttc agaaaaaaca atattcaacc ctttgatagc 60

acctataaat agctaaaaac tagaagcaaa ttgtaaactc aaagacagag tagatccctt 120

tcgaatttca cctagcatgt ctattacaca cttcatcaat gatcaattat gaatagttga 180

tgctttctta acaattgtaa 200

<210> 270
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 270

ttgttgccga gttgtgaagg gagaatgatg gtagatttct cttaatgaga acattctctt 60

cataaagagt tcgatagcgc aaaaacgaaa gcttattgcc aaaagtggct ggggtagatg 120

aaagagaact gcaattgatt ttgctaggct tgactttgag taaagaattc atggcataag 180

gtagaaaaat aggagatggc 200

<210> 271
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 271

gccatctcct atttttctac cttatgccat gaattcttta ctcaaagtca agcctagcaa 60

aatcaattgc agttctcttt catctacccc agccactttt ggcaataagc tttcgttttt 120

gcgctatcga actctttatg aagagaatgt tctcattaag agaaatctac catcattctc 180

ccttcacaac tcggcaacaa 200

<210> 272
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 272

ataaggtaga aaaataggag atggctgaat gatatcgaaa ccttttgatt ctttttgttt 60

tgtttgcaat gcacagaaag gcaggacggg aaagtgtgat taaatggatg ggaaaaattg 120

ctagaataga aaagaagaaa gatgtagcac tcacgtgagg aaattaccca atatctgaat 180

ggagctcaca ctcctctctt 200

<210> 273
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 273

aagagaggag tgtgagctcc attcagatat tgggtaattt cctcacgtga gtgctacatc 60

tttcttcttt tctattctag caatttttcc catccattta atcacacttt cccgtcctgc 120

ctttctgtgc attgcaaaca aaacaaaaag aatcaaaagg tttcgatatc attcagccat 180

ctcctatttt tctaccttat 200

<210> 274
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 274

tgaatggagc tcacactcct ctcttcctct actaatatac aacctgccta atttgcacaa 60

tagctgctaa tatcatagta gtatgagata atggctggat gtctcaattg ttaccctagt 120

tttgacaact attttacgtt ggcatttcgg tggcctgggg ccgtggactg agtcacctta 180

aaaattcatc tgtgatatag 200

<210> 275
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 275

ctatatcaca gatgaatttt taaggtgact cagtccacgg ccccaggcca ccgaaatgcc 60

aacgtaaaat agttgtcaaa actagggtaa caattgagac atccagccat tatctcatac 120

tactatgata ttagcagcta ttgtgcaaat taggcaggtt gtatattagt agaggaagag 180

aggagtgtga gctccattca 200

<210> 276
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 276

ccttaaaaat tcatctgtga tatagtttag aatcaatttt gaaaatttag gcaggcctaa 60

attttgataa agatagcatg atctaaagaa tgcagctcta ataaatttac ataaaatttg 120

atattaagta gtctctgtct aggcctgcct tccgagcttg tatattaact gagcgcatgt 180

ttatttgagg aatagcatag 200

<210> 277
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 277

ctatgctatt cctcaaataa acatgcgctc agttaatata caagctcgga aggcaggcct 60

agacagagac tacttaatat caaattttat gtaaatttat tagagctgca ttctttagat 120

catgctatct ttatcaaaat ttaggcctgc ctaaattttc aaaattgatt ctaaactata 180

tcacagatga atttttaagg 200

<210> 278
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 278

catgtttatt tgaggaatag cataggagtc atttttttgc atactaatta gcatgtcaat 60

tttattccat ttgctgagta ctgtatgttc tgcagacact tgttgacaca atgtgcaaac 120

agcttggtga agacgaactc aaactccagt gtgaggtgct gtccttgtca tacaaccaga 180

aggggatccc ttcattaggg 200

<210> 279
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 279

ccctaatgaa gggatcccct tctggttgta tgacaaggac agcacctcac actggagttt 60

gagttcgtct tcaccaagct gtttgcacat tgtgtcaaca agtgtctgca gaacatacag 120

tactcagcaa atggaataaa attgacatgc taattagtat gcaaaaaaat gactcctatg 180

ctattcctca aataaacatg 200

<210> 280
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 280

catgtggtgg agatcctcaa tcgctatcta tgcaccatac atttcccgac gtatggaatg 60

ttgaaaaaag gtttggctct gtgtttgctg gactaattca atcaacattg ttatctaaga 120

aggaaaaggg tggagggaaa atgcttctat caagaagcct cgtgtacgcg gttcattttc 180

attccatggt ggaatgcaga 200

<210> 281
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 281

tctgcattcc accatggaat gaaaatgaac cgcgtacacg aggcttcttg atagaagcat 60

tttccctcca ccctttttcct tcttagataa caatgttgat tgaattagtc cagcaaacac 120

agagccaaac ctttttttcaa cattccatac gtcgggaaat gtatggtgca tagatagcga 180

ttgaggatct ccaccacatg 200

<210> 282
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 282

ttttcattcc atggtggaat gcagacactt gttgacacaa tgtgcaaaca gcttggtgaa 60

gatgaactca agctccagtg tgaggtgctg tccttgtcat acaaccagaa ggggatccct 120

tcattaggga attggtcagt ctcttctatg tcaaataata ccagtgaaga tcaatcttat 180

gatgctgtgg ttgtcactgc 200

<210> 283
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 283

gcagtgacaa ccacagcatc ataagattga tcttcactgg tattatttga catagaagag 60

actgaccaat tccctaatga agggatcccc ttctggttgt atgacaagga cagcacctca 120

cactggagct tgagttcatc ttcaccaagc tgtttgcaca ttgtgtcaac aagtgtctgc 180

attccaccat ggaatgaaaa 200

<210> 284
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 284

cttatgatgc tgtggttgtc actgctccaa ttcgcaatgt caaagaaatg aagattatga 60

aatttggaaa tccattttca cttgacttta ttccagaggt gacttacgta ccccttttccg 120

ttatgattac tgcattcaag aaggataaag tgaagagacc tctcgagggc ttcggagttc 180

ttatcccgtc taaagagcaa 200

<210> 285
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 285

ttgctcttta gacgggataa gaactccgaa gccctcgaga ggtctcttca ctttatcctt 60

cttgaatgca gtaatcataa cggaaagggg tacgtaagtc acctctggaa taaagtcaag 120

tgaaaatgga tttccaaatt tcataatctt catttctttg acattgcgaa ttggagcagt 180

gacaaccaca gcatcataag 200

<210> 286
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 286

agttcttatc ccgtctaaag agcaacataa tggactgaag actcttggta ctttattttc 60

gtctatgatg tttcctgatc gtgctccatc tgatatgtgt ctttttacca catttgtcgg 120

aggaagcaga aatagaaaac ttgcaaacgc ttcaacggat gaattgaagc aaatagtttc 180

ttctgacctt cagcagctgt 200

<210> 287
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 287

acagctgctg aaggtcagaa gaaactattt gcttcaattc atccgttgaa gcgtttgcaa 60

gttttctatt tctgcttcct ccgacaaatg tggtaaaaag acacatatca gatggagcac 120

gatcaggaaa catcatagac gaaaataaag taccaagagt cttcagtcca ttatgttgct 180

ctttagacgg gataagaact 200

<210> 288
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 288

gtttcttctg accttcagca gctgttgggc actgaggacg aaccttcatt tgtcaatcat 60

ctcttttgga gcaatgcatt cccgttgtat gggcacaatt acgattctgt tttgacagca 120

atagacaaga tggaaaagga tcttcctgga ttttttatgc aggtaaccat aagggtggac 180

tttcagtagg aaaagcgatg 200

<210> 289
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 289

catcgctttt cctactgaaa gtccaccctt atggttacct gcataaaaaa tccaggaaga 60

tccttttcca tcttgtctat tgctgtcaaa acagaatcgt aattgtgccc atacaacggg 120

aatgcattgc tccaaaagag atgattgaca aatgaaggtt cgtcctcagt gcccaacagc 180

tgctgaaggt cagaagaaac 200

<210> 290
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 290

ggggagcggg ttgctggata accagagaga gtgcaagaga gatgagtgcc atggcgttat 60

cgagcagcat tctacaatgt ccgccgcact ccgacatctc tttccgcttt tctgcttata 120

caccaacccg ctcccccatc ttcttcggaa gacctcgaaa attatcatat atccattgtt 180

ccacaagctc aagctcaact 200

<210> 291
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 291

agttgagctt gagcttgtgg aacaatggat atatgataat tttcgaggtc ttccgaagaa 60

gatgggggag cgggttggtg tataagcaga aaagcggaaa gagatgtcgg agtgcggcgg 120

acattgtaga atgctgctcg ataacgccat ggcactcatc tctcttgcac tctctctggt 180

tatccagcaa cccgctcccc 200

<210> 292
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 292

ggtgtttatt tgggcatggc cttatgtgtg atgttggtaa attttgtggc ttcgtccact 60

aatctgatgt atcggatctg ttaaagggag ccctctcatc ctatgcttat caatgacttt 120

ttcatatgcc tatcaaacag atcagattgg atcgggttcg agttcaggtc atatataaac 180

atgtcagcaa acccttgacc 200

<210> 293
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 293

ggtcaagggt ttgctgacat gtttatatat gacctgaact cgaacccgat ccaatctgat 60

ctgtttgata ggcatatgaa aaagtcattg ataagcatag gatgagaggg ctccctttaa 120

cagatccgat acatcagatt agtggacgaa gccacaaaat ttaccaacat cacacataag 180

gccatgccca aataaacacc 200

<210> 294
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 294

taaacatgtc agcaaaccct tgacccatac ccaacccatt tagttaattg gcttgaaaat 60

cacaacctta attcgaccag cgacagatca ggttgacctg atttcgaccc acttaaccca 120

tttataattt ttttttcgat ttaagttttt taacattgat taaatctaat tttttaggct 180

ttaattttaa ttttatgttt 200

<210> 295
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 295

aaacataaaa ttaaaattaa agcctaaaaa attagattta atcaatgtta aaaaacttaa 60

atcgaaaaaa aaattataaa tgggttaagt gggtcgaaat caggtcaacc tgatctgtcg 120

ctggtcgaat taaggttgtg attttcaagc caattaacta aatgggttgg gtatgggtca 180

agggtttgct gacatgttta 200

<210> 296
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 296

aggctttaat tttaatttta tgtttttttg tttaatttgt atttactatg aaaaataaga 60

aactattata tgaactgagt ttagcttaca cttattaatt taactcgaaa ttaacacatt 120

taattaaatg gttatatagg gttttttagt tttaaaattt caacctgaac ctaatctatt 180

taataaaaag atcagatctg 200

<210> 297
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 297

cagatctgat ctttttatta aatagattag gttcaggttg aaattttaaa actaaaaaac 60

cctatataac catttaatta aatgtgttaa tttcgagtta aattaataag tgtaagctaa 120

actcagttca tataatagtt tcttattttt catagtaaat acaaattaaa caaaaaaaca 180

taaaattaaa attaaagcct 200

<210> 298
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 298

ctatttaata aaaagatcag atctgatcaa cccatataat taattgggtc aaaatctcaa 60

ctcaaaccca tttatttcga attaaattca gatcaaatta gcaggtcgga tcaactagcg 120

ctaatttttc ctctcaagtt ttttcatatg atgccccttg ttttctttga ataaaattca 180

ccaatttaaa atccctgccc 200

<210> 299
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 299

gggcagggat tttaaattgg tgaattttat tcaaagaaaa caaggggcat catatgaaaa 60

aacttgagag gaaaaattag cgctagttga tccgacctgc taatttgatc tgaatttaat 120

tcgaaataaa tgggtttgag ttgagatttt gacccaatta attatatggg ttgatcagat 180

ctgatctttt tattaaatag 200

<210> 300
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 300

attcaccaat ttaaaatccc tgcccttgat ccgttggtat tggtatttgg taaagcacat 60

atggtaaatt ctactccatt gttatctgta gttttggttc taaaccccaa acaaatccta 120

ctcctagcac cactaatcct cattactttc tgtttgctgt ctttctctac attcctacta 180

aattaagacc tagatgcagt 200

<210> 301
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 301

actgcatcta ggtcttaatt tagtaggaat gtagagaaag acagcaaaca gaaagtaatg 60

aggattagtg gtgctaggag taggatttgt ttggggttta gaaccaaaac tacagataac 120

aatggagtag aatttaccat atgtgcttta ccaaatacca ataccaacgg atcaagggca 180

gggattttaa attggtgaat 200

<210> 302
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 302

tactaaatta agacctagat gcagtgttat tctgttcgag gttgccgaaa acggtacaat 60

agttgcctaa tttgcaattc atgtttgttc ttgcgttttc tacattgttt actctattgg 120

aacaaaggtt gaactttcag cctttcaggg agtattttga tttttctgtc aaattacctt 180

gccagattta tttggctatt 200

<210> 303
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 303

aatagccaaa taaatctggc aaggtaattt gacagaaaaa tcaaaatact ccctgaaagg 60

ctgaaagttc aacctttgtt ccaatagagt aaacaatgta gaaaacgcaa gaacaaacat 120

gaattgcaaa ttaggcaact attgtaccgt tttcggcaac ctcgaacaga ataacactgc 180

atctaggtct taatttagta 200

<210> 304
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 304

accttgccag atttatttgg ctattttgat tgtgtgtatt tctttgtccc ttgtttccat 60

ggggctaaac tccttttggt taatcttaaa catttcttct aattttgaat tgcagtggta 120

tgaagtgttg tttaatatac aatcaatttt tctgaactgg gttaatgaag agaagcattg 180

tagacatgag gaatgtgttc 200

<210> 305
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 305

gaacacattc ctcatgtcta caatgcttct cttcattaac ccagttcaga aaaattgatt 60

gtatattaaa caacacttca taccactgca attcaaaatt agaagaaatg tttaagatta 120

accaaaagga gtttagcccc atggaaacaa gggacaaaga aatacacaca atcaaaatag 180

ccaaataaat ctggcaaggt 200

<210> 306
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 306

cattgtagac atgaggaatg tgttcaagca tctcaaaaca accaaattaa tcccaaatgg 60

gatcttcaac tgtaatagag gtaaatcaca tatattctca tttaatggtt attgttttat 120

tttaaggatg ttattatgtt gttatcaatg atagaaataa gagaagcttg agcattcaaa 180

tgtatctatc actcactggt 200

<210> 307
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 307

accagtgagt gatagataca tttgaatgct caagcttctc ttatttctat cattgataac 60

aacataataa catccttaaa ataaaacaat aaccattaaa tgagaatata tgtgatttac 120

ctctattaca gttgaagatc ccatttggga ttaatttggt tgttttgaga tgcttgaaca 180

cattcctcat gtctacaatg 200

<210> 308
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 308

tcaaatgtat ctatcactca ctggttgtgg acatctaaaa tatggaccaa gagttttctt 60

catttcttgt accagaattt gcaaatgtat gattaaagtt taggttggag ttgcaataaa 120

atttcattac cccgacgcta ttaagtggct cacactgagg cggggtttga gggtcggatg 180

gtgcaacctt caggagaggt 200

<210> 309
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 309

acctctcctg aaggttgcac catccgaccc tcaaaccccg cctcagtgtg agccacttaa 60

tagcgtcggg gtaatgaaat tttattgcaa ctccaaccta aactttaatc atacatttgc 120

aaattctggt acaagaaatg aagaaaactc ttggtccata ttttagatgt ccacaaccag 180

tgagtgatag atacatttga 200

<210> 310
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 310

ggatggtgca accttcagga gaggttctaa gcattttcaa catgttcaac cgcagagggt 60

cccgtaaaat tggaggcttc aatattaaat tatgtagtat gtgttaagtg tttaaagata 120

taaaaatgtt aatgaataca taatttttaa aattgcacag ggctttcaaa gaaatttttg 180

attttgctcc gcccatggca 200

<210> 311
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 311

tgccatgggc ggagcaaaat caaaaatttc tttgaaagcc ctgtgcaatt ttaaaaatta 60

tgtattcatt aacatttttа tatctttaaa cacttaacac atactacata atttaatatt 120

gaagcctcca attttacggg accctctgcg gttgaacatg ttgaaaatgc ttagaacctc 180

tcctgaaggt tgcaccatcc 200

<210> 312
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 312

ttttgatttt gctccgccca tggcaacctt tggcaaatct ggatagaatt agagaaattt 60

acttttatgt atgtataatc tgatgaatga atgaatgaac aatgaagttc atttctgagt 120

caatgaccta tatactatcg aggtttcgtt aaataggata tataaataaa attagagaca 180

tcttttatcc ctaatgttgt 200

<210> 313
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 313

acaacattag ggataaaaga tgtctctaat tttatttata tatcctattt aacgaaacct 60

cgatagtata taggtcattg actcagaaat gaacttcatt gttcattcat tcattcatca 120

gattatacat acataaaagt aaatttctct aattctatcc agatttgcca aaggttgcca 180

tgggcggagc aaaatcaaaa 200

<210> 314
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 314

agacatcttt tatccctaat gttgtctgtt ttcttttctg ggcgagactg tttttggaga 60

aaaacgttat gttgaatgct tgatttactc agaactgatg caaacagatg gataaaaaat 120

ggtgttttcc tagtgtttat gtttcataaa aggatttcaa attccaatcg tatgaagttt 180

gaaatactgc tttttgtttt 200

<210> 315
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 315

aaaacaaaaa gcagtatttc aaacttcata cgattggaat ttgaaatcct tttatgaaac 60

ataaacacta ggaaaacacc atttttttatc catctgtttg catcagttct gagtaaatca 120

agcattcaac ataacgtttt tctccaaaaa cagtctcgcc cagaaaagaa aacagacaac 180

attagggata aaagatgtct 200

<210> 316
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 316

agtttgaaat actgcttttt gtttttgtag cttcgtgttt tgctttcctt cactcttcac 60

cagggaacgt tgttgaagtt tgttccaaga agcaagaagt cgtaattgca atcgggagca 120

atgttggtga cagattagaa aatttcaacc aagctctgca acaaatgaag aaattaggca 180

tagacatcac aaggcatggt 200

<210> 317
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 317

accatgcctt gtgatgtcta tgcctaattt cttcatttgt tgcagagctt ggttgaaatt 60

ttctaatctg tcaccaacat tgctcccgat tgcaattacg acttcttgct tcttggaaca 120

aacttcaaca acgttccctg gtgaagagtg aaggaaagca aaacacgaag ctacaaaaac 180

aaaaagcagt atttcaaact 200

<210> 318
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 318

aggcatagac atcacaaggc atggttgttt atatgagacg gaacctgcat acgtgactga 60

tcaaccgaag tttcttaact ctgctttaag aggctttaca agacttggac ctcatgaatt 120

attaggggta ttgaagaaaa ttgagaagga tatgggtaga accaagggaa taaggtatgg 180

tcctaggcca attgacttgg 200

<210> 319
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 319

ccaagtcaat tggcctagga ccatacctta ttcccttggt tctacccata tccttctcaa 60

ttttcttcaa tacccctaat aattcatgag gtccaagtct tgtaaagcct cttaaagcag 120

agttaagaaa cttcggttga tcagtcacgt atgcaggttc cgtctcatat aaacaaccat 180

gccttgtgat gtctatgcct 200

<210> 320
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 320

tatggtccta ggccaattga cttggacata ctattttatg ggaagtttag ggtgagctct 60

gagagcctca ctatccccca tgaaaggata tgggaaagac catttgtgat ggcaccattg 120

attgattgta ttgggtctga tgtagaaaat gacactattt gtacgtggca ttcattatca 180

aatttttcgg gtggaatctt 200

<210> 321
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 321

aagattccac ccgaaaaatt tgataatgaa tgccacgtac aaatagtgtc attttctaca 60

tcagacccaa tacaatcaat caatggtgcc atcacaaatg gtctttccca tatcctttca 120

tgggggatag tgaggctctc agagctcacc ctaaacttcc cataaaatag tatgtccaag 180

tcaattggcc taggaccata 200

<210> 322
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 322

tatcaaattt ttcgggtgga atctttgaag catggggtaa actcggtgga agctccctaa 60

tcgggaagga tggaatgaaa agggttttgc ccgttggaaa tctcttatgg gattggtctc 120

ataaaacctc tgttatggga gtcttgaact tgactcctga tagctttagt gatggcggaa 180

gttttcaatc tgtcaatact 200

<210> 323
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 323

agtattgaca gattgaaaac ttccgccatc actaaagcta tcaggagtca agttcaagac 60

tcccataaca gaggttttat gagaccaatc ccataagaga tttccaacgg gcaaaaccct 120

tttcattcca tccttcccga ttagggagct tccaccgagt ttaccccatg cttcaaagat 180

tccacccgaa aaatttgata 200

<210> 324
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 324

cggaagtttt caatctgtca atactgcggt tgctaaggtt cgtcagatga tctcagatgg 60

ggcagatata attgacatcg gggcacaatc aaccagaccc atggcaacta gaatttcggc 120

tgaagaagag ctagcaagag tagtacctgt attagaagct gtcaaggatt tgatcgagga 180

agaaggaaga atcttgtcag 200

<210> 325
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 325

ctgacaagat tcttccttct tcctcgatca aatccttgac agcttctaat acaggtacta 60

ctcttgctag ctcttcttca gccgaaattc tagttgccat gggtctggtt gattgtgccc 120

cgatgtcaat tatatctgcc ccatctgaga tcatctgacg aaccttagca accgcagtat 180

tgacagattg aaaacttccg 200

<210> 326
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 326

gaggaagaag gaagaatctt gtcagtggat acgttttatt ctaaagttgc tttggaggcc 60

gtcaagaagg gggcacacat tgtgaatgat gtctctagtg gtaaactcga ttccgagatg 120

tttaatgttg ttgcggacct taaagttcct tatatagcaa tgcacatgcg aggagatccg 180

acttcaatgc aaaactctga 200

<210> 327
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 327

tcagagtttt gcattgaagt cggatctcct cgcatgtgca ttgctatata aggaacttta 60

aggtccgcaa caacattaaa catctcggaa tcgagtttac cactagagac atcattcaca 120

atgtgtgccc ccttcttgac ggcctccaaa gcaactttag aataaaacgt atccactgac 180

aagattcttc cttcttcctc 200

<210> 328
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 328

atccgacttc aatgcaaaac tctgagaact tgacctacaa tgatgtttgt aagcaagtgg 60

cttcggagtt gagttctagg gtcatagatg cagaattatc gggaattcct gcttggagga 120

tagttattga tcccggcatc ggattttcta agaatacgaa tcaaaatttg gaaattctta 180

gtggtttaca aaagatacgg 200

<210> 329
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 329

ccgtatcttt tgtaaaccac taagaatttc caaattttga ttcgtattct tagaaaatcc 60

gatgccggga tcaataacta tcctccaagc aggaattccc gataattctg catctatgac 120

cctagaactc aactccgaag ccacttgctt acaaacatca ttgtaggtca agttctcaga 180

gttttgcatt gaagtcggat 200

<210> 330
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 330

tcttagtggt ttacaaaaga tacgggaaga gatagctaag aagagtttgg cggtggctca 60

ttgccccttg ctaattggac cttcaagaaa gaggtttctg ggcgagattt gtgagcgccc 120

tgtagcagct gacagggatc ctgctaccat tgcttctata actgctggag ttttaggtgg 180

tgcaaacatt gtaagagtac 200

<210> 331
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 331

gtactcttac aatgtttgca ccacctaaaa ctccagcagt tatagaagca atggtagcag 60

gatccctgtc agctgctaca gggcgctcac aaatctcgcc cagaaacctc tttcttgaag 120

gtccaattag caaggggcaa tgagccaccg ccaaactctt cttagctatc tcttcccgta 180

tcttttgtaa accactaaga 200

<210> 332
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 332

ggtggtgcaa acattgtaag agtacataat gttagggata accttgatgc tgtcaagtta 60

tgtgatgcca tactcggaaa aactgattaa ctgcttgttt gtaccacctt gtgaatgatg 120

tctagtggaa ggttcgattg ggattatgat gaagtccgtt agtttgctcg aaagaagagc 180

tttagcccgt aaggttatag 200

<210> 333
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 333

ctataacctt acgggctaaa gctcttcttt cgagcaaact aacggacttc atcataatcc 60

caatcgaacc ttccactaga catcattcac aaggtggtac aaacaagcag ttaatcagtt 120

tttccgagta tggcatcaca taacttgaca gcatcaaggt tatccctaac attatgtact 180

cttacaatgt ttgcaccacc 200

<210> 334
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 334

agagctttag cccgtaaggt tatagttctt acagatgtag aatcattggc tatttgccta 60

tttctgctta gaagatcata gcattgatcc agactttgga ttccatgtag aattatgttg 120

cgactcatgg tcgaattggc cctttgagga attgttgaag ttccttgagt ctatggttca 180

atcggctcgg ttcgatgaag 200

<210> 335
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 335

cttcatcgaa ccgagccgat tgaaccatag actcaaggaa cttcaacaat tcctcaaagg 60

gccaattcga ccatgagtcg caacataatt ctacatggaa tccaaagtct ggatcaatgc 120

tatgatcttc taagcagaaa taggcaaata gccaatgatt ctacatctgt aagaactata 180

accttacggg ctaaagctct 200

<210> 336
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 336

gttcaatcgg ctcggttcga tgaaggttgg actgtgtcga gacaagatgg gtcaaagaga 60

ccaatggaca agaagtcgac cttgggcaag cttgatcaag ttacttggac gagcagataa 120

cagcaggctc tggcgagcat tagacataca tatcatttgt tttttgaagt cagatctgca 180

atcaatcagt tgcaatggac 200

<210> 337
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 337

gtccattgca actgattgat tgcagatctg acttcaaaaa acaaatgata tgtatgtcta 60

atgctcgcca gagcctgctg ttatctgctc gtccaagtaa cttgatcaag cttgcccaag 120

gtcgacttct tgtccattgg tctctttgac ccatcttgtc tcgacacagt ccaaccttca 180

tcgaaccgag ccgattgaac 200

<210> 338
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 338

ctgcaatcaa tcagttgcaa tggacagacc atatacggtt gttagttgtt cctgtcactc 60

tttgagttga attagatcat gcaaacactg taagagtctt gattttgtga agctatgtga 120

tactgtactt ctcaaaatga aatctttgat atgatgttag cttcaagagt tgtttttccc 180

cccctcacat tctgttctat 200

<210> 339
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 339

atagaacaga atgtgagggg gggaaaaaca actcttgaag ctaacatcat atcaaagatt 60

tcattttgag aagtacagta tcacatagct tcacaaaatc aagactctta cagtgtttgc 120

atgatctaat tcaactcaaa gagtgacagg aacaactaac aaccgtatat ggtctgtcca 180

ttgcaactga ttgattgcag 200

<210> 340
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 340

ttccccccct cacattctgt tctatgttgt attgttgtgt gctttttgga attgtattcc 60

tgtaattaga attattcctg caaaatggta ttcctttata tcatcaaagg agtttttgta 120

cttctaatca ttgatcttta gatgcaaaac tgaattaata caagtgttct tgatgaaggc 180

ttattgaaga actcactttt 200

<210> 341
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 341

aaaagtgagt tcttcaataa gccttcatca agaacacttg tattaattca gttttgcatc 60

taaagatcaa tgattagaag tacaaaaact cctttgatga tataaaggaa taccattttg 120

caggaataat tctaattaca ggaatacaat tccaaaaagc acacaacaat acaacataga 180

acagaatgtg agggggggaa 200

<210> 342
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 342

aaggcttatt gaagaactca ctttttattt atgtctaaac ttgttaaaga tgttctgctt 60

ccgcccttgc cacgggatgt cgggattgac taagggtggt aatcgaggga ttcctatgct 120

tgaattgact cgtttaagat tttgcgttga ttttaagtca aatgttttgc taagcataaa 180

ctattctagc tcgacttgaa 200

<210> 343
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 343

ttcaagtcga gctagaatag tttatgctta gcaaaacatt tgacttaaaa tcaacgcaaa 60

atcttaaacg agtcaattca agcataggaa tccctcgatt accaccctta gtcaatcccg 120

acatcccgtg gcaagggcgg aagcagaaca tctttaacaa gtttagacat aaataaaaag 180

tgagttcttc aataagcctt 200

<210> 344
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 344

ataaactatt ctagctcgac ttgaataatg aagttttcga gtcaagtccg agctgttctg 60

taagtttatg tatcttgaag cttcttagtt cttacttctt atccttattt gtttgacaca 120

ttgaaccgcg ttgatgcttg cttgactcaa cccgttaaag tcttgaattc atcacgaatt 180

cgagtcgagc aagtttaaac 200

<210> 345
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 345

gtttaaactt gctcgactcg aattcgtgat gaattcaaga ctttaacggg ttgagtcaag 60

caagcatcaa cgcggttcaa tgtgtcaaac aaataaggat aagaagtaag aactaagaag 120

cttcaagata cataaactta cagaacagct cggacttgac tcgaaaactt cattattcaa 180

gtcgagctag aatagtttat 200

<210> 346
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 346

gaattcgagt cgagcaagtt taaacccaac attaactaag ctctcgaggc ttaatgaggc 60

aggggtagct caagtttgtt attcaagcaa cttaccatag tattctttta aaaggcatat 120

agtcagttag ttatttgtta atttcagtag aacgaaagaa gtacattatt aaacttggcc 180

attgatgctt gagctagaga 200

<210> 347
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 347

tctctagctc aagcatcaat ggccaagttt aataatgtac ttctttcgtt ctactgaaat 60

taacaaataa ctaactgact atatgccttt taaaagaata ctatggtaag ttgcttgaat 120

aacaaacttg agctacccct gcctcattaa gcctcgagag cttagttaat gttgggttta 180

aacttgctcg actcgaattc 200

<210> 348
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 348

tggccattga tgcttgagct agagagcttc ggttgtgatc gaaacgaatc ctgatttcgc 60

tcttgatctt tgatgtgaag tgacaaggcc ttcataaaac tcctttattc ttcagcagtg 120

catacaaaaa tcatgtgtgc ccagctccta gctcacatac cgcgtttttc ccctaatcta 180

gtgtggtcaa ataaaaacag 200

<210> 349
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 349

ctgtttttat ttgaccacac tagattaggg gaaaaacgcg gtatgtgagc taggagctgg 60

gcacacatga tttttgtatg cactgctgaa gaataaagga gttttatgaa ggccttgtca 120

cttcacatca aagatcaaga gcgaaatcag gattcgtttc gatcacaacc gaagctctct 180

agctcaagca tcaatggcca 200

<210> 350
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 350

atctagtgtg gtcaaataaa aacagcaaga tgtgttgatg tcatgtgcaa tagtaattat 60

caggtgaagt aatgcaatat gtagccagtc acctcatatc aaaaaaatgt tgggaggaaa 120

acgtattcgt tcatcactaa acctgtgttt atacatctaa ctgatcgatc agggtttcaa 180

aatccaaatt aatacaatgg 200

<210> 351
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 351

ccattgtatt aatttggatt ttgaaaccct gatcgatcag ttagatgtat aaacacaggt 60

ttagtgatga acgaatacgt tttcctccca acatttttt gatatgaggt gactggctac 120

atattgcatt acttcacctg ataattacta ttgcacatga catcaacaca tcttgctgtt 180

tttatttgac cacactagat 200

<210> 352
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 352

ttcaaaatcc aaattaatac aatggcattt gacgaagata tccagaacac atccccttg 60

tttctgctag ataatcaact attctgattc tgctgtaata cctcagcttc ggccctagcc 120

atgggatcgt cctcttttc tccttcacgc tcctcggcca gtttctttct gtgcagttct 180

tcagcagctt ctattgaagc 200

<210> 353
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 353

gcttcaatag aagctgctga agaactgcac agaaagaaac tggccgagga gcgtgaagga 60

gaaaaagagg acgatcccat ggctagggcc gaagctgagg tattacagca gaatcagaat 120

agttgattat ctagcagaaa caaggggat gtgttctgga tatcttcgtc aaatgccatt 180

gtattaattt ggattttgaa 200

<210> 354
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 354

gttcttcagc agcttctatt gaagctttgt tctcggcctg aagacgctgc atttcctctt 60

ccatttgctg cctctcaaac catgtatcag catccgccca aactgcagac aagtatacaa 120

aagttaaata acgaaagtct tcaaaactgc agatccagtg aacaaagtca ttgttgccaa 180

tgcccatgca aaccgcaaaa 200

<210> 355
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 355

ttttgcggtt tgcatgggca ttggcaacaa tgactttgtt cactggatct gcagttttga 60

agactttcgt tatttaactt ttgtatactt gtctgcagtt tgggcggatg ctgatacatg 120

gtttgagagg cagcaaatgg aagaggaaat gcagcgtctt caggccgaga acaaagcttc 180

aatagaagct gctgaagaac 200

<210> 356
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 356

gccaatgccc atgcaaaccg caaaacagca gggcaaaaga acacaacatt gcagcataaa 60

gagcaagttc agtgatctac agttactaca aaatttaggt ttgggatacc agcatgtcaa 120

tatgaatgaa tttgctaata catgtaaccc aagaactata agtctataac taacaattaa 180

gaaaagaaaa ccagaagttc 200

<210> 357
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 357

gaacttctgg ttttcttttc ttaattgtta gttatagact tatagttctt gggttacatg 60

tattagcaaa ttcattcata ttgacatgct ggtatcccaa acctaaattt tgtagtaact 120

gtagatcact gaacttgctc tttatgctgc aatgttgtgt tcttttgccc tgctgttttg 180

cggtttgcat gggcattggc 200

<210> 358
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 358

attaagaaaa gaaaaccaga agttccctac cactggagta ttagcaaggt aacgactgcc 60

tgctgataag aattattggc ctggaagtct ggaactatgt gatgatcaac atgtgttgct 120

attctaggta aaactaatct atcataatat aattaaacta caggccccag aattggggtc 180

ctgagctatt gatcatgctg 200

<210> 359
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 359

cagcatgatc aatagctcag gaccccaatt ctggggcctg tagtttaatt atattatgat 60

agattagttt tacctagaat agcaacacat gttgatcatc acatagttcc agacttccag 120

gccaataatt cttatcagca ggcagtcgtt accttgctaa tactccagtg gtagggaact 180

tctggttttc ttttcttaat 200

<210> 360
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 360

gggtcctgag ctattgatca tgctgttaaa gcaaaagagt tgggctgaat gagactagca 60

attaaaagca taggatacac tgaacaatgc ttccccctcc ccatccaaac acgtaggttt 120

tagttacaca atagtggctt gagctagaaa accataagga tatcatagtg gacacatcat 180

agttaagttt tacataaata 200

<210> 361
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 361

tatttatgta aaacttaact atgatgtgtc cactatgata tccttatggt tttctagctc 60

aagccactat tgtgtaacta aaacctacgt gtttggatgg ggaggggggaa gcattgttca 120

gtgtatccta tgcttttaat tgctagtctc attcagccca actcttttgc tttaacagca 180

tgatcaatag ctcaggaccc 200

<210> 362
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 362

atcatagtta agttttacat aaatatacct tatacatgta taagcaatac atttccaggt 60

tgataggtca gttttatgtc tatattgatc gccattctat tatgagggaa ttatattcca 120

ataatgggta atcatcaatg agcagtattt ataggaattt attgatagcg tttctattat 180

taggatatag aaattccaat 200

<210> 363
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 363

attggaattt ctatatccta ataatagaaa cgctatcaat aaattcctat aaatactgct 60

cattgatgat tacccattat tggaatataa ttccctcata atagaatggc gatcaatata 120

gacataaaac tgacctatca acctggaaat gtattgctta tacatgtata aggtatattt 180

atgtaaaact taactatgat 200

<210> 364
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 364

taaaaatgac gttaaatata ttttattttt attttgttaa tttatgtgtt ttaattataa 60

agtattaaaa aatacgatga ttaataagat actgctacat agacaactta acctctcaaa 120

ttggtcaaac ccttaaactt aacggttaac taacgttttc cattaagtga tagtcatttg 180

cagagattta tattagatta 200

<210> 365
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 365

taatctaata taaatctctg caaatgacta tcacttaatg gaaaacgtta gttaaccgtt 60

aagtttaagg gtttgaccaa tttgagaggt taagttgtct atgtagcagt atcttattaa 120

tcatcgtatt ttttaatact ttataattaa aacacataaa ttaacaaaat aaaaataaaa 180

tatatttaac gtcattttta 200

<210> 366
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 366

atttgcagag atttatatta gattaggtag ttttttgcaa aaaaaaaaat tacattaggt 60

agtttttgc aaatagacct atagattagg cagtttctta taatttttcc ttcttattat 120

ttgttgtttc agatatggct tcaagaatga agtttggtaa ccaaactttt caaatttgaa 180

gtgagggttg gagctctggt 200

<210> 367
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 367

accagagctc caaccctcac ttcaaatttg aaaagtttgg ttaccaaact tcattcttga 60

agccatatct gaaacaacaa ataataagaa ggaaaaatta taagaaactg cctaatctat 120

aggtctattt gcaaaaaact acctaatgta attttttttt ttgcaaaaaa ctacctaatc 180

taatataaat ctctgcaaat 200

<210> 368
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 368

ttgaagtgag ggttggagct ctggtgttgg aagccttttt tgtaacaccc caaaaatttt 60

aggcaaactt tatacgtttg tttatccaaa aaaaaaataa taaataaata aaaaaaaaaa 120

aattcttaaa gtagaaccac ttaagggtcg gaggtctagg taataatttt ggagtgataa 180

atgtaaagat tgaagagttt 200

<210> 369
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 369

aaactcttca atctttacat ttatcactcc aaaattatta cctagacctc cgacccttaa 60

gtggttctac tttaagaatt ttttttttt tatttattta ttatttttt tttggataaa 120

caaacgtata aagtttgcct aaaatttttg gggtgttaca aaaaaggctt ccaacaccag 180

agctccaacc ctcacttcaa 200

<210> 370
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 370

gataaatgta aagattgaag agtttgtaac tcataccatt agttcactca tttacctcaa 60

tttatgatta taattaagta ttacaaaaaa aaggggaaac aatcacttca tattccaaag 120

gtgaagcttt taatagtgaa ggaaaaggat ttcttaagca atacagtatt aaacgtaaac 180

taaaaaaaat aataaatcat 200

<210> 371
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 371

atgatttatt atttttttta gtttacgttt aatactgtat tgcttaagaa atccttttcc 60

ttcactatta aaagcttcac ctttggaata tgaagtgatt gtttcccctt ttttttgtaa 120

tacttaatta taatcataaa ttgaggtaaa tgagtgaact aatggtatga gttacaaact 180

cttcaatctt tacatttatc 200

<210> 372
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 372

taaactaaaa aaaataataa atcatatctt aattttgaga agttttattc ttaatttgtt 60

tatccctatc aatactaagc ttgggataat aaacaaaggg ttatcaaggt tggaggattt 120

ttaatttcga gattatatac ttgaattgaa gaaattttat gttcaagaga attatattag 180

aggaatattt gtaaggctat 200

<210> 373
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 373

atagccttac aaatattcct ctaatataat tctcttgaac ataaaatttc ttcaattcaa 60

gtatataatc tcgaaattaa aaatcctcca accttgataa ccctttgttt attatcccaa 120

gcttagtatt gatagggata aacaaattaa gaataaaact tctcaaaatt aagatatgat 180

ttattatttt ttttagttta 200

<210> 374
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 374

attagaggaa tatttgtaag gctattatct acaattcttc atatttctct aattgaaata 60

tatataaagg taactagttt accctctctt ttcttaattc atatacattg ttatttttt 120

tattatatgg aaaatataaa acggaaaaaa aaatgtaaat taaacttatc ttagttttga 180

gataattgat gttatatagt 200

<210> 375
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 375

actatataac atcaattatc tcaaaactaa gataagttta atttacattt ttttttccgt 60

tttatatttt ccatataata aaaaaaataa caatgtatat gaattaagaa aagagagggt 120

aaactagtta cctttatata tatttcaatt agagaaatat gaagaattgt agataatagc 180

cttacaaata ttcctctaat 200

<210> 376
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 376

tttgagataa ttgatgttat atagtcttat aatgttgatt aacgttgaaa attgaattac 60

aaaactaaat aatttaaaca tatgatttgt taacttctac taattaaatc ttggttaggg 120

gtgatttagt tgatttgaga aatatccaaa taaataatta gattagtttg gtgaaataat 180

atttttttt gacttcgaaa 200

<210> 377
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 377

tttcgaagtc aaaaaaaaat attatttcac caaactaatc taattattta tttggatatt 60

tctcaaatca actaaatcac ccctaaccaa gatttaatta gtagaagtta acaaatcata 120

tgtttaaatt atttagtttt gtaattcaat tttcaacgtt aatcaacatt ataagactat 180

ataacatcaa ttatctcaaa 200

<210> 378
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 378

ataatatttt tttttgactt cgaaaacaat gggttaattt ggcacactaa tttggaatgt 60

acaaataagt tcattagagt agagcttctt aaattatgtt ttggtatagt taaaagtgat 120

gttaatgtat ggttaatatt ttataaatat tttatatatt ttgtttagtt gaattggcca 180

cttaatgaat ttgtacattg 200

<210> 379
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 379

caatgtacaa attcattaag tggccaattc aactaaacaa aatatataaa atatttataa 60

aatattaacc atacattaac atcactttta actataccaa aacataattt aagaagctct 120

actctaatga acttatttgt acattccaaa ttagtgtgcc aaattaaccc attgttttcg 180

aagtcaaaaa aaaatattat 200

<210> 380
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 380

ggccacttaa tgaatttgta cattgctgtt aaaaaaaaag agaggatatt aatcgtttgg 60

tacaacagca taattgagca aatcataaat ctgccaaaat tcaagtaatt aaaaataatt 120

atcaattaac agttatacaa gtgtatgtat gtggcattag cctaattgat tgcgcaagga 180

ctaaataatt acttattcag 200

<210> 381
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 381

ctgaataagt aattatttag tccttgcgca atcaattagg ctaatgccac atacatacac 60

ttgtataact gttaattgat aattattttt aattacttga attttggcag atttatgatt 120

tgctcaatta tgctgttgta ccaaacgatt aatatcctct ctttttttt aacagcaatg 180

tacaaattca ttaagtggcc 200

<210> 382
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 382

aaggactaaa taattactta ttcaggtaat ttagtatttt atccaggtta attagaggtt 60

agttgagttg attatgatca atattttggt taaatataaa ttttggcaaa gaaaaatgag 120

tattaatatt gtatttattt tgagactcga caatttttag ttgaattgtt actttctaag 180

atgttaagag tgttgttgac 200

<210> 383
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 383

gtcaacaaca ctcttaacat cttagaaagt aacaattcaa ctaaaaattg tcgagtctca 60

aaataaatac aatattaata ctcatttttc tttgccaaaa tttatattta accaaaatat 120

tgatcataat caactcaact aacctctaat taacctggat aaaatactaa attacctgaa 180

taagtaatta tttagtcctt 200

<210> 384
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 384

tcaaattggt caaaccctta aacgatcaac taacgttttc cattaagtgg tagtcatttg 60

caaagaaata tattatatta tgtagttttt tacaaaaaaa gaaaactaca ttaggcagtt 120

ttttgcaaat agacctatta gatttttttt ttaatttttc cttcttgtta tttgctgttt 180

ctaatgtggc ttcaaaaatg 200

<210> 385
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 385

cattttgaa gccacattag aaacagcaaa taacaagaag gaaaaattaa aaaaaaaatc 60

taataggtct atttgcaaaa aactgcctaa tgtagttttc ttttttgta aaaaactaca 120

taatataata tatttctttg caaatgacta ccacttaatg gaaaacgtta gttgatcgtt 180

taagggtttg accaatttga 200

<210> 386
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 386

tgtttctaat gtggcttcaa aaatgaagtt tggtaaccaa acttttcaaa tttgaagtga 60

gggttgggaa gccttttggt gtcccttcta ttaagagttg gggcctcaca atcactagat 120

aacgtgcctt tctctcatgc cttacctttc taattcttag aatagaaaaa agacggtgaa 180

ttttttatac gctgtatgat 200

<210> 387
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 387

atcatacagc gtataaaaaa ttcaccgtct tttttctatt ctaagaatta gaaaggtaag 60

gcatgagaga aaggcacgtt atctagtgat tgtgaggccc caactcttaa tagaagggac 120

accaaaaggc ttcccaaccc tcacttcaaa tttgaaaagt ttggttacca aacttcattt 180

ttgaagccac attagaaaca 200

<210> 388
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 388

gtgaattttt tatacgctgt atgattacat tttttgaaat ctctccgatc atcttgatca 60

tgggatggaa ttgttcgtgc acatgttttt taagaatgga atctaagcat agtgtattag 120

agagaatgag tgaaagttag tggaaagaaa aattgagttg gagaataaaa taaaaaacaa 180

gtgggtaata gaaataagtg 200

<210> 389
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 389

cacttatttc tattacccac ttgtttttta ttttattctc caactcaatt tttctttcca 60

ctaactttca ctcattctct ctaatacact atgcttagat tccattctta aaaaacatgt 120

gcacgaacaa ttccatccca tgatcaagat gatcggagag atttcaaaaa atgtaatcat 180

acagcgtata aaaaattcac 200

<210> 390
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 390

aacaagtggg taatagaaat aagtggttac gatgaagagg gtgtataaat ttgtagataa 60

gattaaaagg ggtgggagta ccattgttat aaaagaaaag agtgcaaaat ccgttggacg 120

aatttaaata aaaagtggtg taaaatgaaa ggaacgacaa gaatatgatt ttcccagcta 180

taacactgtc acaaatgtaa 200

<210> 391
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 391

ttacatttgt gacagtgtta tagctgggaa aatcatattc ttgtcgttcc tttcatttta 60

caccactttt tatttaaatt cgtccaacgg attttgcact cttttctttt ataacaatgg 120

tactcccacc ccttttaatc ttatctacaa atttatacac cctcttcatc gtaaccactt 180

atttctatta cccacttgtt 200

<210> 392
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 392

tcagatatgt cttcataaag tattcaagtt tgagcatgaa aatccacatg tacatgacat 60

gagtatgcaa atgcaagtaa tacaaacaca taggcaaaag agatgatgta atcactattc 120

ggtaatcgct cgcgcacaaa tagtagctca ctatatgaat gagatgagaa aatttcaatt 180

gttgtaaagg cgagttcctt 200

<210> 393
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 393

aaggaactcg cctttacaac aattgaaatt ttctcatctc attcatatag tgagctacta 60

tttgtgcgcg agcgattacc gaatagtgat tacatcatct cttttgccta tgtgtttgta 120

ttacttgcat ttgcatactc atgtcatgta catgtggatt ttcatgctca aacttgaata 180

ctttatgaag acatatctga 200

<210> 394
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 394

caattgttgt aaaggcgagt tccttatgtt ttagtccaac agtgttttgt aacctttgtg 60

taatttttta tatgaagcac aagagcaggt ctcaaataag tacaggagat aaatgaaact 120

agaaataaaa gtgttcaata tacttggaca tagtcacata gttaatgcca aaatccatct 180

ttctgataag ttggggccac 200

<210> 395
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 395

gtggccccaa cttatcagaa agatggattt tggcattaac tatgtgacta tgtccaagta 60

tattgaacac ttttatttct agtttcattt atctcctgta cttatttgag acctgctctt 120

gtgcttcata taaaaaatta cacaaaggtt acaaaacact gttggactaa aacataagga 180

actcgccttt acaacaattg 200

<210> 396
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 396

catctttctg ataagttggg gccacttata cactatacta acatgagcct ggaaagaaat 60

agccagcagg accgcaggta tagattgtta gctaggaaaa ccacaaaacc atactccctc 120

catattaaaa tgacattaac aagtgattag taatgtaata acctacttac atattctaac 180

aagtgattaa tttcaatagt 200

<210> 397
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 397

actattgaaa ttaatcactt gttagaatat gtaagtaggt tattacatta ctaatcactt 60

gttaatgtca ttttaatatg gagggagtat ggttttgtgg ttttcctagc taacaatcta 120

tacctgcggt cctgctggct atttctttcc aggctcatgt tagtatagtg tataagtggc 180

cccaacttat cagaaagatg 200

<210> 398
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 398

ctaacaagtg attaatttca atagtattcc gacaaaatgt agctttaata attatcttcc 60

atctcatcaa atttgtttgg gaaatttgta acactgatca atgactctag cacaaggaat 120

agctaaaatt atcatcatca tcatgatcat cttgactagt gtatcccact cataaggaaa 180

ctatgatcag ggtctggaaa 200

<210> 399
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 399

tttccagacc ctgatcatag tttccttatg agtgggatac actagtcaag atgatcatga 60

tgatgatgat aattttagct attccttgtg ctagagtcat tgatcagtgt tacaaatttc 120

ccaaacaaat ttgatgagat ggaagataat tattaaagct acattttgtc ggaatactat 180

tgaaattaat cacttgttag 200

<210> 400
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 400

ggaaactatg atcagggtct ggaaagggaa ggaaggcgac aaatcatacc ataaagggag 60

tttagaggta atgaatacct aaatcctgat cctaaaacaa ttgatcttcc ccattaccac 120

gccaatatca acccacaaag catccgggga aagtcaaaca aagggaaaaa tcacaattga 180

aatatcctag tttcaagttt 200

<210> 401
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 401

aaacttgaaa ctaggatatt tcaattgtga tttttccctt tgtttgactt tccccggatg 60

ctttgtgggt tgatattggc gtggtaatgg ggaagatcaa ttgttttagg atcaggattt 120

aggtattcat tacctctaaa ctccctttat ggtatgattt gtcgccttcc ttccctttcc 180

agaccctgat catagtttcc 200

<210> 402
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 402

attgaaatat cctagtttca agtttcaacc aattgggtac catttaccca tgttcaagtg 60

tagcaaaaac cctaatatag catcttaata cagctccagt aaacattatg cagtcttaat 120

ctgaagctac tataccaaaa cgactaacat ttaacaaatg ccattccacc attaaaaaaa 180

agggtgtttt agcggtaatg 200

<210> 403
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 403

cattaccgct aaaacaccct ttttttaat ggtggaatgg catttgttaa atgttagtcg 60

ttttggtata gtagcttcag attaagactg cataatgttt actggagctg tattaagatg 120

ctatattagg gtttttgcta cacttgaaca tgggtaaatg gtacccaatt ggttgaaact 180

tgaaactagg atatttcaat 200

<210> 404
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 404

aaaaaagggt gttttagcgg taatgagttg atcggtcaat gtcaatccga gtaagaaaaa 60

attaacacaa tgcaaaccca tttgccatgt ttcaacacac aaacacaaaa cactgataat 120

tccacaaatc tgatactaca agcagcacaa cagtcaattg caaacataac caaaaaaagc 180

taaataaaca gcagaacctg 200

<210> 405
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 405

caggttctgc tgtttattta gctttttttg gttatgtttg caattgactg ttgtgctgct 60

tgtagtatca gatttgtgga attatcagtg ttttgtgttt gtgtgttgaa acatggcaaa 120

tgggtttgca ttgtgttaat tttttcttac tcggattgac attgaccgat caactcatta 180

ccgctaaaac acccttttt 200

<210> 406
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 406

aaagctaaat aaacagcaga acctgggatc ggaaaagggt ggtcggcgtc gtgaacaaac 60

tagagagaga aagatgaata tagagagata aaggagtgag aaagaaggaa ggagagtaag 120

cagaatgaaa tgggtagtgt ggagtgtgga ataatggttg aaaatgaagt gtggctcttc 180

catagaggat agggatgctg 200

<210> 407
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 407

cagcatccct atcctctatg gaagagccac acttcatttt caaccattat tccacactcc 60

acactaccca tttcattctg cttactctcc ttccttcttt ctcactcctt tatctctcta 120

tattcatctt tctctctcta gtttgttcac gacgccgacc accctttcc gatcccaggt 180

tctgctgttt atttagcttt 200

<210> 408
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 408

tcttccatag aggataggga tgctgaaatt gagtggtgaa taaacaatct gaacaagatt 60

tggagaatgc aaaagaatct ctggactaaa ttaatggaaa atcaaattgt atgtaatgat 120

ttagatattt aattagggtt cttgtttgtg tctactcatt ctgtcactca catgcatgct 180

cattgtttgt atcaatctaa 200

<210> 409
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 409

ttagattgat acaaacaatg agcatgcatg tgagtgacag aatgagtaga cacaaacaag 60

aaccctaatt aaatatctaa atcattacat acaatttgat tttccattaa tttagtccag 120

agattctttt gcattctcca aatcttgttc agattgttta ttcaccactc aatttcagca 180

tccctatcct ctatggaaga 200

<210> 410
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 410

atgctcattg tttgtatcaa tctaaagcca agcattgact ttttgggaaa gccaaataga 60

gaaaacaata tcctaaaggg gaaatggact cataaaacgt gattgttact cccacctaca 120

gatgttcatt cgggtcatcg agttgattta gggtcaggtg tttcgggtag gttcaaaatc 180

gggttttgtg ttcacattga 200

<210> 411
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 411

tcaatgtgaa cacaaaaccc gattttgaac ctacccgaaa cacctgaccc taaatcaact 60

cgatgacccg aatgaacatc tgtaggtggg agtaacaatc acgttttatg agtccatttc 120

ccctttagga tattgttttc tctatttggc tttcccaaaa agtcaatgct tggctttaga 180

ttgatacaaa caatgagcat 200

<210> 412
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 412

aaatcgggtt ttgtgttcac attgattttt acatgatttt aaattcatat tgacgtcggg 60

tcaagtcgga ttagattatt aactcgggta aatatcggat catcgggtct gttttgaaca 120

cctctagtat tttccaagtt ttgttgtatc acacatgctt gttgtggatg acctaaaatt 180

ctttactgct gaaacgggac 200

<210> 413
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 413

gtcccgtttc agcagtaaag aattttaggt catccacaac aagcatgtgt gatacaacaa 60

aacttggaaa atactagagg tgttcaaaac agacccgatg atccgatatt tacccgagtt 120

aataatctaa tccgacttga cccgacgtca atatgaattt aaaatcatgt aaaaatcaat 180

gtgaacacaa aacccgattt 200

<210> 414
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 414

aaattcttta ctgctgaaac gggacattct gtgttgcgtt acatttggtt tttagtagaa 60

tataagtttc ggtgggttgt taaggcaaaa aacaagcaga tgagaagaaa tgtgtggctg 120

agatgaatag agagattttt gcggatagaa ctaggaaagg gcacgtgggt tcatatccgt 180

aagtaaaaag ttagcatata 200

<210> 415
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 415

tatatgctaa ctttttactt acggatatga acccacgtgc cctttcctag ttctatccgc 60

aaaaatctct ctattcatct cagccacaca tttcttctca tctgcttgtt ttttgcctta 120

acaacccacc gaaacttata ttctactaaa aaccaaatgt aacgcaacac agaatgtccc 180

gtttcagcag taaagaattt 200

<210> 416
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 416

tccgtaagta aaaagttagc atataactat agaacaccga aaaatgaaaa atgtagcgaa 60

ttgataagtg atcatatgca atataaagtt ctggtgtttt ctgatatatt cttttgtgac 120

taaattgaac gggaaaccat caaaaataat cgtctgtcaa ggtattgaaa atcctaactt 180

gggctatcgg tgtaggtaac 200

<210> 417
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 417

gttacctaca ccgatagccc aagttaggat tttcaatacc ttgacagacg attatttttg 60

atggtttccc gttcaattta gtcacaaaag aatatatcag aaaacaccag aactttatat 120

tgcatatgat cacttatcaa ttcgctacat ttttcatttt tcggtgttct atagttatat 180

gctaactttt tacttacgga 200

<210> 418
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 418

aacttgggct atcggtgtag gtaaccataa gggtggactt tcagtgggaa aagcgatggc 60

ctccggatgc aaggctgcgg aacttgtaat atcctatctg gactctcatt tatatgtgaa 120

gatggatgag aagaccgtgt aattcttctc tgggaacgtc ccctgatttt gcgtctgtat 180

atccgatgat atgtcgttgg 200

<210> 419
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 419

ccaacgacat atcatcggat atacagacgc aaaatcaggg gacgttccca gagaagaatt 60

acacggtctt ctcatccatc ttcacatata aatgagagtc cagataggat attacaagtt 120

ccgcagcctt gcatccggag gccatcgctt ttcccactga aagtccaccc ttatggttac 180

ctacaccgat agcccaagtt 200

<210> 420
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 420

tgtatatccg atgatatgtc gttggattga tcacgattgt agtcacgttt aggagttgtg 60

cagtgacttt tctgcctaaa gactggatct gttagaaaca aatagtctat agatagtttc 120

tttgctcatc aggttatctt tcttacacca gttgtgtata caaatgttgc atagcctaac 180

ctaaattcta aaatgccatt 200

<210> 421
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 421

aatggcattt tagaatttag gttaggctat gcaacatttg tatacacaac tggtgtaaga 60

aagataacct gatgagcaaa gaaactatct atagactatt tgtttctaac agatccagtc 120

tttaggcaga aaagtcactg cacaactcct aaacgtgact acaatcgtga tcaatccaac 180

gacatatcat cggatataca 200

<210> 422
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 422

ctaacctaaa ttctaaaatg ccattccctt ttatataggg tcatgttttt tgcatttatg 60

aatggtgaaa ttttagatct tcactgagaa taaaggtttt ggcaatttca taatggtgct 120

tattaggggt atttaaaacc ggatattggc aattttcatt gataatattg taatggaaaa 180

atgacgttaa atatcttttt 200

<210> 423
<211> 200
<212> DNA
<213> Amaranthus palmeri

<400> 423

aaaaagatat ttaacgtcat ttttccatta caatattatc aatgaaaatt gccaatatcc 60

ggttttaaat acccctaata agcaccatta tgaaattgcc aaaaccttta ttctcagtga 120

agatctaaaa tttcaccatt cataaatgca aaaaacatga ccctatataa aagggaatgg 180

cattttagaa tttaggttag 200

<210> 424
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 424

acactcaaaa ctattcagga aaggaaaaat aatcctccac cccctcgaga cccgtccgta 60

atcaccatta cttattgctt tccatcacct tgaatcttac cttaatatac atgtatttaa 120

ttgataatgt cacattgcct catttgcagc cgccttccta aacctaaggg ccagactgtt 180

ggatccttta ggaaagggct 200

<210> 425
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 425

agccctttcc taaaggatcc aacagtctgg cccttaggtt taggaaggcg gctgcaaatg 60

aggcaatgtg acattatcaa ttaaatacat gtatattaag gtaagattca aggtgatgga 120

aagcaataag taatggtgat tacggacggg tctcgagggg gtggaggatt atttttcctt 180

tcctgaatag ttttgagtgt 200

<210> 426
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 426

ctgttggatc ctttaggaaa gggctcatta tgttacctac cgccattgct gctaggtatc 60

ttttgactct caaaccttat atatttctca tcttctcctt ctgccagtgc catactaata 120

ctagtatctt taccatatat tttttatttt tttaggcttg gcagtaaagt caaactatcg 180

tggacacttt ctaatattga 200

<210> 427
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 427

tcaatattag aaagtgtcca cgatagtttg actttactgc caagcctaaa aaaataaaaa 60

atatatggta aagatactag tattagtatg gcactggcag aaggagaaga tgagaaatat 120

ataaggtttg agagtcaaaa gatacctagc agcaatggcg gtaggtaaca taatgagccc 180

tttcctaaag gatccaacag 200

<210> 428
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 428

tatcgtggac actttctaat attgataagt cgctcaatgg agaatacaat ctcacttatc 60

aaacacccga tggaccggtt tctgttagga ccaaagcggt tgtcatgacc gtcccttcgt 120

acattgcaag tagcttgctt cgtccgctct cagtgagtat cattctttcc ttcatttcta 180

ttcttttaat gctatccaat 200

<210> 429
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 429

attggatagc attaaaagaa tagaaatgaa ggaaagaatg atactcactg agagcggacg 60

aagcaagcta cttgcaatgt acgaagggac ggtcatgaca accgctttgg tcctaacaga 120

aaccggtcca tcgggtgttt gataagtgag attgtattct ccattgagcg acttatcaat 180

attagaaagt gtccacgata 200

<210> 430
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 430

agagagtgcg agagagatga gtgcgatggc gttatcgagc agcattctac aatgtccgcc 60

gcactccgac atctcgttcc gctttttgc tcatacacga acccaatccc ccatcttctt 120

cggaagacca cgaaaattat catatatcca ttgttccaca agctcaagct caactgccaa 180

ttaccagaac accattacga 200

<210> 431
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 431

tcgtaatggt gttctggtaa ttggcagttg agcttgagct tgtggaacaa tggatatatg 60

ataattttcg tggtcttccg aagaagatgg gggattgggt tcgtgtatga gcaaaaaagc 120

ggaacgagat gtcggagtgc ggcggacatt gtagaatgct gctcgataac gccatcgcac 180

tcatctctct cgcactctct 200

<210> 432
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 432

gccaattacc agaacaccat tacgagccaa ggagaaggag ataaagtatt agattgtgta 60

attgttggag ctggtatcag tggactttgc attgctcagg ctctttctac caaacacatt 120

caatccaatc tcaatttcat tgtcactgaa gctaaacatc gtgttggagg taatatcact 180

accatggagt ccgatggcta 200

<210> 433
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 433

tagccatcgg actccatggt agtgatatta cctccaacac gatgtttagc ttcagtgaca 60

atgaaattga gattggattg aatgtgtttg gtagaaagag cctgagcaat gcaaagtcca 120

ctgataccag ctccaacaat tacacaatct aatactttat ctccttctcc ttggctcgta 180

atggtgttct ggtaattggc 200

<210> 434
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 434

tcactaccat ggagtccgat ggctatatct gggaagaggg tcctaatagt ttccaaccct 60

ccgatcctgt gcttactatg gcggtaaact gattcttctc tctttctcca atttttgatc 120

attctattca attttcccct tattgaatca aaatcaaatt ccaggttgac agtggattaa 180

aagacgattt ggtcttggga 200

<210> 435
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 435

tcccaagacc aaatcgtctt ttaatccact gtcaacctgg aatttgattt tgattcaata 60

aggggaaaat tgaatagaat gatcaaaaat tggagaaaga gagaagaatc agtttaccgc 120

catagtaagc acaggatcgg agggttggaa actattagga ccctcttccc agatatagcc 180

atcggactcc atggtagtga 200

<210> 436
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 436

attaaaagac gatttggtct tgggagatcc taatgcccct cgtttcgtgc tctggaatgg 60

taaattaagg cctgttcctt ccaaacctac ggaccttccc ttttttgatc tcatgagctt 120

tcctggtaag attagggctg gtcttggtgc acttggtctt cgtcctcctc ctcctcctcc 180

ttcttatgag gaatctgttg 200

<210> 437
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 437

caacagattc ctcataagaa ggaggaggag gaggaggacg aagaccaagt gcaccaagac 60

cagccctaat cttaccagga aagctcatga gatcaaaaaa gggaaggtcc gtaggtttgg 120

aaggaacagg ccttaattta ccattccaga gcacgaaacg aggggcatta ggatctccca 180

agaccaaatc gtcttttaat 200

<210> 438
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 438

cctccttctt atgaggaatc tgttgaagaa tttgtgcgcc gtaatctcgg cgatgaggtc 60

ttcgaacgct tgatcgaacc cttttgttct ggtacctacc ctgtttaatt tttcaatttt 120

ccccctttt tctctactac tactttattg attcttatcc atgagtgtac tatgggagtt 180

gacaataatt gttcaggtgt 200

<210> 439
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 439

acacctgaac aattattgtc aactcccata gtacactcat ggataagaat caataaagta 60

gtagtagaga aaaaaggggg aaaattgaaa aattaaacag ggtaggtacc agaacaaaag 120

ggttcgatca agcgttcgaa gacctcatcg ccgagattac ggcgcacaaa ttcttcaaca 180

gattcctcat aagaaggagg 200

<210> 440
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 440

atggtaattc aatccattac ccacctttca ccaaaccttg cattgccatc gccattgtca 60

gtttccacca agaactaccc agtagctgta atgggcaaca tttctgagcg ggaagaaccc 120

acttctgcta aaagggttgc tgttgttggt gctggagtta gtggacttgc tgctgcatat 180

aagctaaaat cccatggttt 200

<210> 441
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 441

aaaccatggg attttagctt atatgcagca gcaagtccac taactccagc accaacaaca 60

gcaacccttt tagcagaagt gggttcttcc cgctcagaaa tgttgcccat tacagctact 120

gggtagttct tggtggaaac tgacaatggc gatggcaatg caaggtttgg tgaaaggtgg 180

gtaatggatt gaattaccat 200

<210> 442
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 442

catataagct aaaatcccat ggtttgagtg tgacattgtt tgaagctgat tctagagctg 60

gaggcaaact taaaactgtt aaaaaagatg gttttatttg ggatgagggg gcaaatacta 120

tgacagaaag tgaggcagag gtctcgagtt tgatcgatga tcttgggctt cgtgagaagc 180

aacagttgcc aatttcacaa 200

<210> 443
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 443

ttgtgaaatt ggcaactgtt gcttctcacg aagcccaaga tcatcgatca aactcgagac 60

ctctgcctca ctttctgtca tagtatttgc cccctcatcc caaataaaac catcttttt 120

aacagtttta agtttgcctc cagctctaga atcagcttca aacaatgtca cactcaaacc 180

atgggatttt agcttatatg 200

<210> 444
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 444

gaagcaacag ttgccaattt cacaaaataa aagatacata gctagagacg gtcttcctgt 60

gctactacct tcaaatcccg ctgcactact cacgagcaat atcctttcag caaaatcaaa 120

gctgcaaatt atgttggaac catttctctg gagaaaacac aatgctactg aactttctga 180

tgagcatgtt caggaaagcg 200

<210> 445
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 445

cgctttcctg aacatgctca tcagaaagtt cagtagcatt gtgttttctc cagagaaatg 60

gttccaacat aatttgcagc tttgattttg ctgaaaggat attgctcgtg agtagtgcag 120

cgggatttga aggtagtagc acaggaagac cgtctctagc tatgtatctt ttattttgtg 180

aaattggcaa ctgttgcttc 200

<210> 446
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 446

tctgatgagc atgttcagga aagcgttggt gaatttttg agcgacattt tgggaaagag 60

tttgttgatt atgttattga ccctttgtt gcgggtacat gtggtggaga tcctcaatcg 120

ctttccatgc accatacatt tccagaagta tggaatattg aaaaaaggtt tggctctgtg 180

tttgctggac taattcaatc 200

<210> 447
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 447

gattgaatta gtccagcaaa cacagagcca aacctttttt caatattcca tacttctgga 60

aatgtatggt gcatggaaag cgattgagga tctccaccac atgtacccgc aacaaaaggg 120

tcaataacat aatcaacaaa ctctttccca aaatgtcgct caaaaaattc accaacgctt 180

tcctgaacat gctcatcaga 200

<210> 448
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 448

ctgtgtttgc tggactaatt caatcaacat tgttatctaa gaaggaaaag ggtggagaaa 60

atgcttctat taagaagcct cgtgtacgtg gttcattttc atttcaaggt ggaatgcaga 120

cacttgttga cacaatgtgc aaacagcttg gtgaagatga actcaaactc cagtgtgagg 180

tgctgtcctt gtcatataac 200

<210> 449
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 449

gttatatgac aaggacagca cctcacactg gagtttgagt tcatcttcac caagctgttt 60

gcacattgtg tcaacaagtg tctgcattcc accttgaaat gaaaatgaac cacgtacacg 120

aggcttctta atagaagcat tttctccacc cttttccttc ttagataaca atgttgattg 180

aattagtcca gcaaacacag 200

<210> 450
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 450

tgaggtgctg tccttgtcat ataaccagaa ggggatcccc tcattaggga attggtcagt 60

ctcttctatg tcaaataata ccagtgaaga tcaatcttat gatgctgtgg ttgtcactgc 120

tccaattcgc aatgtcaaag aaatgaagat tatgaaattt ggaaatccat tttcacttga 180

ctttattcca gaggtgacgt 200

<210> 451
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 451

acgtcacctc tggaataaag tcaagtgaaa atggatttcc aaatttcata atcttcattt 60

ctttgacatt gcgaattgga gcagtgacaa ccacagcatc ataagattga tcttcactgg 120

tattatttga catagaagag actgaccaat tccctaatga ggggatcccc ttctggttat 180

atgacaagga cagcacctca 200

<210> 452
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 452

cttgacttta ttccagaggt gacgtacgta ccccttccg ttatgattac tgcattcaaa 60

aaggataaag tgaagagacc tcttgagggc ttcggagttc ttatcccctc taaagagcaa 120

cataatggac tgaagactct tggtacttta ttttcctcca tgatgtttcc tgatcgtgct 180

ccatctgaca tgtgtctctt 200

<210> 453
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 453

aagagacaca tgtcagatgg agcacgatca ggaaacatca tggaggaaaa taaagtacca 60

agagtcttca gtccattatg ttgctcttta gaggggataa gaactccgaa gccctcaaga 120

ggtctcttca ctttatcctt tttgaatgca gtaatcataa cggaaagggg tacgtacgtc 180

acctctggaa taaagtcaag 200

<210> 454
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 454

gtgctccatc tgacatgtgt ctctttacta catttgtcgg aggaagcaga aatagaaaac 60

ttgcaaacgc ttcaacggat gaattgaagc aaatagtttc ttctgacctt cagcagctgt 120

tgggcactga ggacgaacct tcatttgtca atcatctctt ttggagcaac gcattcccat 180

tgtatggaca caattacgat 200

<210> 455
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 455

atcgtaattg tgtccataca atgggaatgc gttgctccaa aagagatgat tgacaaatga 60

aggttcgtcc tcagtgccca acagctgctg aaggtcagaa gaaactattt gcttcaattc 120

atccgttgaa gcgtttgcaa gttttctatt tctgcttcct ccgacaaatg tagtaaagag 180

acacatgtca gatggagcac 200

<210> 456
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 456

cccattgtat ggacacaatt acgattctgt tttgagagcc atagacaaga tggaaaagga 60

tcttcctgga ttttttatg caggtaacca taagggtgga ctttcagtgg gaaaagcgat 120

ggcctccgga tgcaaggctg cggaacttgt aatatcctat ctggactctc atatatacgt 180

gaagatggat gagaagaccg 200

<210> 457
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 457

cggtcttctc atccatcttc acgtatatat gagagtccag ataggatatt acaagttccg 60

cagccttgca tccggaggcc atcgcttttc ccactgaaag tccaccctta tggttacctg 120

cataaaaaaa tccaggaaga tccttttcca tcttgtctat ggctctcaaa acagaatcgt 180

aattgtgtcc atacaatggg 200

<210> 458
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 458

attaagtttt gatgttttta gctgcaataa tttgttgatg aaaaagccac tacttttttc 60

tcagctgcaa attatgttgg aaccatttct ctggagaaaa cacaatgcta ctgaactttc 120

tgatgagcat gttcaggaaa ggcaagtgcc acatactatt aagtgttagt tgctgagaat 180

atatttgaat ctaagatgca 200

<210> 459
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 459

tgcatcttag attcaaatat attctcagca actaacactt aatagtatgt ggcacttgcc 60

tttcctgaac atgctcatca gaaagttcag tagcattgtg ttttctccag agaaatggtt 120

ccaacataat ttgcagctga gaaaaaagta gtggcttttt catcaacaaa ttattgcagc 180

taaaaacatc aaaacttaat 200

<210> 460
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 460

agaatatatt tgaatctaag atgcacgaag accactggtg cccttgctct atcaattctg 60

atggaaagga ttatcgctga atttaccttc tactaaaaca tcgataaaat acttcattat 120

tagcatcaaa agattccctc catccttctg gttttgctag acttgcctta tgaaggtgtt 180

caaggagtag tttgctaccc 200

<210> 461
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 461

gggtagcaaa ctactccttg aacaccttca taaggcaagt ctagcaaaac cagaaggatg 60

gagggaatct tttgatgcta ataatgaagt attttatcga tgttttagta gaaggtaaat 120

tcagcgataa tcctttccat cagaattgat agagcaaggg caccagtggt cttcgtgcat 180

cttagattca aatatattct 200

<210> 462
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 462

gtgttcaagg agtagtttgc taccttcaa gatagggtag tggttgccgt ctctcataat 60

ttcagtcact cgttttcctc tcctaattca agccataatt tttatggttc ctccacacaa 120

cacttgctaa atttgaaaag tagcaaagag gaagtgagca aaatcagcag gagtaggact 180

gatgagtaag agcttgatta 200

<210> 463
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 463

taatcaagct cttactcatc agtcctactc ctgctgattt tgctcacttc ctctttgcta 60

cttttcaaat ttagcaagtg ttgtgtggag gaaccataaa aattatggct tgaattagga 120

gaggaaaacg agtgactgaa attatgagag acggcaacca ctaccctatc ttgaagggta 180

gcaaactact ccttgaacac 200

<210> 464
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 464

ggactgatga gtaagagctt gattaagtgt agaggatttt cttttgtgtt gaatatgaat 60

gcatcatgca tgactgtaga attgacataa tgatttgtct gcagcgttgg tgaatttttt 120

gagcgacatt ttgggaaaga ggtattgttg ccaattgcca tgctctattc attccggtga 180

attaacaaat gttgtgcttc 200

<210> 465
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 465

gaagcacaac atttgttaat tcaccggaat gaatagagca tggcaattgg caacaatacc 60

tctttcccaa aatgtcgctc aaaaaattca ccaacgctgc agacaaatca ttatgtcaat 120

tctacagtca tgcatgatgc attcatattc aacacaaaag aaaatcctct acacttaatc 180

aagctcttac tcatcagtcc 200

<210> 466
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 466

ggtgaattaa caaatgttgt gcttctgctt actattgctt ataattattg tttgttgcag 60

tttgttgatt atgttattga ccctttttgtt gcgggtacat gtggtggaga tcctcaatcg 120

ctttccgtga gttaaatact gtgcttgctt ttttttttt caacattttc tggaggctgt 180

aaataaatta tactcctttc 200

<210> 467
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 467

gaaaggagta taatttattt acagcctcca gaaaatgttg aaaaaaaaaa aagcaagcac 60

agtatttaac tcacggaaag cgattgagga tctccaccac atgtacccgc aacaaaaggg 120

tcaataacat aatcaacaaa ctgcaacaaa caataattat aagcaatagt aagcagaagc 180

acaacatttg ttaattcacc 200

<210> 468
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 468

gctgtaaata aattatactc ctttctattc taatcaaata tcctatttcc ccttttggca 60

tattcaaatt tagttaaata ttgtgtaaat tatttacaca attgccatta aattttcact 120

tttcccttac tcactcttct catgtgtccc ttccccccttt tcttaaaatt ggtgcattat 180

caaataggac atttgatttg 200

<210> 469
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 469

caaatcaaat gtcctatttg ataatgcacc aattttaaga aaaggggggaa gggacacatg 60

agaagagtga gtaagggaaa agtgaaaatt taatggcaat tgtgtaaata atttacacaa 120

tatttaacta aatttgaata tgccaaaagg ggaaatagga tatttgatta gaatagaaag 180

gagtataatt tatttacagc 200

<210> 470
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 470

attatcaaat aggacatttg atttgaatag gcgggagttt ccaattgtgc ttccaaaggt 60

agcttgtcac tttttctttt tctttaaatt ttgtaccatg ccatgcattt tgaacctcaa 120

ctcatttcgc cataaaggaa tattatgttt gagaagaacg aggatactat tatcttatag 180

ataacatata ggtttcatta 200

<210> 471
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 471

taatgaaacc tatatgttat ctataagata atagtatcct cgttcttctc aaacataata 60

ttcctttatg gcgaaatgag ttgaggttca aaatgcatgg catggtacaa aatttaaaga 120

aaaagaaaaa gtgacaagct acctttggaa gcacaattgg aaactcccgc ctattcaaat 180

caaatgtcct atttgataat 200

<210> 472
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 472

tatagataac atataggttt cattatcaat gattgtttga ttttcaactc ttcttttcct 60

ttcatgctca tattgatgtt atttctattt gttatgaatt atgtccattg tgttaatgtc 120

tttctttatt gtagatgcac catacatttc cagaagtatg gaatattgaa aaaaggtatg 180

aaccttaaag ctttaatttt 200

<210> 473
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 473

aaaattaaag ctttaaggtt catacctttt ttcaatattc catacttctg gaaatgtatg 60

gtgcatctac aataaagaaa gacattaaca caatggacat aattcataac aaatagaaat 120

aacatcaata tgagcatgaa aggaaaagaa gagttgaaaa tcaaacaatc attgataatg 180

aaacctatat gttatctata 200

<210> 474
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 474

gtatgaacct taaagcttta attttcttcg aacttaatgt ttcttaattg attcttttgg 60

atcaatttcc ataagaatgg aaatttaaaa aagggtatga accttaaaga tttcttcgaa 120

cttatatgtt ttgtaattca tgcttttaga tgctgcacca ttttatctat gtgtcttaag 180

tttgttgtaa tcatttgtag 200

<210> 475
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 475

ctacaaatga ttacaacaaa cttaagacac atagataaaa tggtgcagca tctaaaagca 60

tgaattacaa aacatataag ttcgaagaaa tctttaaggt tcataccctt ttttaaattt 120

ccattcttat ggaaattgat ccaaaagaat caattaagaa acattaagtt cgaagaaaat 180

taaagcttta aggttcatac 200

<210> 476
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 476

ttaagtttgt tgtaatcatt tgtagaccaa aagaatgaat ggtctggttt gaaatggttc 60

atcgtgcaaa aatgcgattt tgcttgtgat tgaggtaaca ttcaaggtgg tgtgtttgtc 120

gtactgtcaa atgtcttcct ataccatgtg atatatatat aagcctaaaa tgatatattg 180

tacaccttta ggatgtggat 200

<210> 477
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 477

atccacatcc taaaggtgta caatatatca ttttaggctt atatatatat cacatggtat 60

aggaagacat ttgacagtac gacaaacaca ccaccttgaa tgttacctca atcacaagca 120

aaatcgcatt tttgcacgat gaaccatttc aaaccagacc attcattctt ttggtctaca 180

aatgattaca acaaacttaa 200

<210> 478
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 478

tattgtacac ctttaggatg tggatagcag gggttcagta catatgaaaa atccttgcaa 60

tttgatctgt acgatcaatg tgattttgcc ttttgccttt tgccttttgt tatatgatga 120

tgattccatg tgaaattttg ggatttagaa aattcacttg tttaagaaca tttgaatcaa 180

actttcacca atttcaacca 200

<210> 479
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 479

tggttgaaat tggtgaaagt ttgattcaaa tgttcttaaa caagtgaatt ttctaaatcc 60

caaaatttca catggaatca tcatcatata acaaaaggca aaaggcaaaa ggcaaaatca 120

cattgatcgt acagatcaaa ttgcaaggat ttttcatatg tactgaaccc ctgctatcca 180

catcctaaag gtgtacaata 200

<210> 480
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 480

atcaaacttt caccaatttc aaccacattt aattgcggca aagccgaact ttaaaagtca 60

ctcccaatct ttgagatatc caaactccaa aacttctatt agctttcatg ttttcaccaa 120

gtaaagttgg tgcgactcct taccattttc tttattatgc atttcgttga tgtataatag 180

tatagattgg tgctctcttt 200

<210> 481
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 481

aaagagagca ccaatctata ctattataca tcaacgaaat gcataataaa gaaaatggta 60

aggagtcgca ccaactttac ttggtgaaaa catgaaagct aatagaagtt ttggagtttg 120

gatatctcaa agattgggag tgacttttaa agttcggctt tgccgcaatt aaatgtggtt 180

gaaattggtg aaagtttgat 200

<210> 482
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 482

aatagtatag attggtgctc tctttgctct ccttccaaca tgcataactt ctagttcttg 60

tcgttttctt ttcctcccta tttttatttg acttgtagct atttttgttc actcttctcg 120

cccaatccat agctaaagaa acttgatttc attgattttg taactgatat gcaattcatt 180

tttgtttgct tttagttgtt 200

<210> 483
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 483

aacaactaaa agcaaacaaa aatgaattgc atatcagtta caaaatcaat gaaatcaagt 60

ttctttagct atggattggg cgagaagagt gaacaaaaat agctacaagt caaataaaaa 120

tagggaggaa aagaaaacga caagaactag aagttatgca tgttggaagg agagcaaaga 180

gagcaccaat ctatactatt 200

<210> 484
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 484

tcatttttgt ttgcttttag ttgttgattc aaaaacaata atgctaaagc cctaatccta 60

acatgtcggg ttagctgttg aaacaatact tgaaattgct ataaaaaggg attttttttc 120

gggtacttca gttgttgaga ttgatatggt caagtataat ttgttttaac acaatttgta 180

atgatttaat ggcttagttt 200

<210> 485
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 485

aaactaagcc attaaatcat tacaaattgt gttaaaacaa attatacttg accatatcaa 60

tctcaacaac tgaagtaccc gaaaaaaaat ccctttttat agcaatttca agtattgttt 120

caacagctaa cccgacatgt taggattagg gctttagcat tattgttttt gaatcaacaa 180

ctaaaagcaa acaaaaatga 200

<210> 486
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 486

ttgtaatgat ttaatggctt agtttcatag ctgtttgtat taataaagga aggaggacta 60

tctgaaattg caataggaaa gagattttag ttcggtattt ggttgtttaa attgatatgg 120

ccaagtaatg ttcattttac acaattggta atgttttatt ggctcaatag tgtttgtaag 180

tatgcgactc aaatttaatc 200

<210> 487
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 487

gattaaattt gagtcgcata cttacaaaca ctattgagcc aataaaacat taccaattgt 60

gtaaaatgaa cattacttgg ccatatcaat ttaaacaacc aaataccgaa ctaaaatctc 120

tttcctattg caatttcaga tagtcctcct tcctttatta atacaaacag ctatgaaact 180

aagccattaa atcattacaa 200

<210> 488
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 488

gtaagtatgc gactcaaatt taatcaagta taacttattg aaacataaat aaatatccat 60

taggtttggc tctgtgtttg ctggactaat tcaatcaaca ttgttatcta agaaggaaaa 120

gggtggagaa aatgcttcta ttaagaagcc tcgtgtacgt ggttcatttt catttcaagg 180

tggaatgcag gtataaactt 200

<210> 489
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 489

aagtttatac ctgcattcca ccttgaaatg aaaatgaacc acgtacacga ggcttcttaa 60

tagaagcatt ttctccaccc ttttccttct tagataacaa tgttgattga attagtccag 120

caaacacaga gccaaaccta atggatattt atttatgttt caataagtta tacttgatta 180

aatttgagtc gcatacttac 200

<210> 490
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 490

caaggtggaa tgcaggtata aacttgtagc cataatttca ctttttatac cttatacttc 60

caaaatatat tgatgcgttt ttcttgctac aaagtacaaa cacaaaagct ttgggaataa 120

ttctcaattt tgtcaaatct actaaaaata ttctattagg aatcaaggtt tctattttag 180

aatatatgga tgaagacatg 200

<210> 491
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 491

catgtcttca tccatatatt ctaaaataga aaccttgatt cctaatagaa tatttttagt 60

agatttgaca aaattgagaa ttattcccaa agcttttgtg tttgtacttt gtagcaagaa 120

aaacgcatca atatattttg gaagtataag gtataaaaag tgaaattatg gctacaagtt 180

tatacctgca ttccaccttg 200

<210> 492
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 492

tttagaatat atggatgaag acatgtagaa gtgtgaataa aaaaacctag atgtgaaagg 60

tttttagtct attaaacaag aatattagaa ttcagagtcg tttcatcaat aaaatattgt 120

tgaagaggag caattacatt ctgcttcaag caaaggcaat cttaagagga ccctaaaact 180

tgaggaggta tgagaactta 200

<210> 493
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 493

taagttctca tacctcctca agttttaggg tcctcttaag attgcctttg cttgaagcag 60

aatgtaattg ctcctcttca acaatatttt attgatgaaa cgactctgaa ttctaatatt 120

cttgtttaat agactaaaaa cctttcacat ctaggttttt ttattcacac ttctacatgt 180

cttcatccat atattctaaa 200

<210> 494
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 494

aaacttgagg aggtatgaga acttagaggc caaagaaatt aaatttgatg aagagatttg 60

gtgagatacc ttgcttacaa aaatgattaa ttttccccct agacacctca aattatgaca 120

tttataagtt ctccatgcgt attcgacaag atgttacatc ctatattcta aattaagtat 180

gaaatttgta tatgtgtaag 200

<210> 495
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 495

cttacacata tacaaatttc atacttaatt tagaatatag gatgtaacat cttgtcgaat 60

acgcatggag aacttataaa tgtcataatt tgaggtgtct aaggggaaaa ttaatcattt 120

ttgtaagcaa ggtatctcac caaatctctt catcaaattt aatttctttg gcctctaagt 180

tctcatacct cctcaagttt 200

<210> 496
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 496

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acctcaaagt gttcatacca ttgaaattag cgagcttacg attgttaaga aaggatcaac 120

ttgtcatcat tgatcattga tgaagtgtgt aatagacata ctaggtgaaa ttcaaaaggg 180

atctactcag tctttgagtt 200

<210> 497
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 497

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tcaatgatca atgatgacaa gttgatcctt tcttaacaat cgtaagctcg ctaatttcaa 120

tggtatgaac actttgaggt cgtagacatg gaattcaagg gactaacttt tctttcttac 180

acatatacaa atttcatact 200

<210> 498
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 498

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actatcaaag ggttcaatat tgtttttttct gaacattgtt gccgaattgt gaagggagaa 120

tgatggtaga tttctcttat ttttatgaga aaattctctt tataaagagt tcgatagctc 180

aaaaatgaaa gcttattgcc 200

<210> 499
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 499

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ataagagaaa tctaccatca ttctcccttc acaattcggc aacaatgttc agaaaaaaca 120

atattgaacc ctttgatagt gcctataaat agcaaaatac tagaagcaaa cggtaaactc 180

aaagactgag tagatccctt 200

<210> 500
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 500

agctcaaaaa tgaaagctta ttgccaaaag tggatggggt agatgaagga gaaatgcaat 60

caattttggt aggcttgact ttgagtaaag aatttgtgga ataaggtaga aaaataggat 120

ttggctgcat gatattgaaa ccttttgcta cttttctttt tgttttggtt gcaatgcaca 180

gaaaggcagg acggtaaagt 200

<210> 501
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 501

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tttcaatatc atgcagccaa atcctatttt tctaccttat tccacaaatt ctttactcaa 120

agtcaagcct accaaaattg attgcatttc tccttcatct accccatcca cttttggcaa 180

taagctttca tttttgagct 200

<210> 502
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 502

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atagaagaaa aataatggca ggatgtatcc tttgttaccc tagtttcgac aactgtgtta 120

cgtcggtatt atcggtggct tggactgagt catcatagaa attcttctct gatatagttt 180

agatgaaatt tttaaaattt 200

<210> 503
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 503

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agccaccgat aataccgacg taacacagtt gtcgaaacta gggtaacaaa ggatacatcc 120

tgccattatt tttcttctat tctattctag caatttttcc catccatttt atcacacttt 180

accgtcctgc ctttctgtgc 200

<210> 504
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 504

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taaagaaggc agctctaata aatcaacata aaatttgata ttaagtagtc tctgtctagg 120

cctgctttcc gagctagtat attaactgag tacatgttat tagagcaata gcataggagt 180

catgtttttg catactgatt 200

<210> 505
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 505

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atactagctc ggaaagcagg cctagacaga gactacttaa tatcaaattt tatgttgatt 120

tattagagct gccttcttta gatcatgcta tctttatcaa aattcaggcc tgcttaaatt 180

ttaaaaattt catctaaact 200

<210> 506
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 506

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atgttctgca gacacttgtt gacacaatgt gcaaacagct tggtgaagat gaactcaaac 120

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ggtcagtctc ttctatgtca 200

<210> 507
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 507

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ggacagcacc tcacactgga gtttgagttc atcttcacca agctgtttgc acattgtgtc 120

aacaagtgtc tgcagaacat acagtactca gcaaatggaa taaaattgac atgctaatca 180

gtatgcaaaa acatgactcc 200

<210> 508
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 508

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ggttgtcact gtgagttttt gtctactttt gtctctatga gcatgcaatt cctttcacag 120

ccgttgagtt agcaattata ttccagtttg aaacttaaag ttttttgggg gaatttttct 180

agcattcaag tcaatcaagg 200

<210> 509
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 509

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tataattgct aactcaacgg ctgtgaaagg aattgcatgc tcatagagac aaaagtagac 120

aaaaactcac agtgacaacc acagcatcat aagattgatc ttcactggta ttatttgaca 180

tagaagagac tgaccaattc 200

<210> 510
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 510

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gaaactacaa taaaatgatt tctaaaaaat taattgcgaa tagcggagat tcaattaggg 120

tgtataattg atccacatca aatagcatgc attctacatg ttagtcactt gtggcttctc 180

tagtcctctg tctccagaaa 200

<210> 511
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 511

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tgatgtggat caattataca ccctaattga atctccgcta ttcgcaatta atttttaga 120

aatcatttta ttgtagtttc atataacata gataaagctt tgagttccaa ataagccttg 180

attgacttga atgctagaaa 200

<210> 512
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 512

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ctatatactt tccgaaatgt cagcattaag taacttgtgt tgaggaaata tgtaaatcgt 120

accctgttac cctcttttta aagagtgatt ttttttttaa ttgaatgtgg ttatagctat 180

ctggtttgat gaagatttac 200

<210> 513
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 513

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taaaaagagg gtaacagggt acgatttaca tatttcctca acacaagtta cttaatgctg 120

acatttcgga aagtatatag catactagtc ttcatgagcc tttgtatgca ggctttttct 180

ggagacagag gactagagaa 200

<210> 514
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 514

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gtttcaatta tattaggcat ttaggctgct atacagtgaa ttggctcgat aaattttgcg 120

catgtcttat ttatgtgaat tgtagataac gtttgctaca aagggtcaat caagaacaac 180

cttttcattt ttgtaaggat 200

<210> 515
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 515

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attcacataa ataagacatg cgcaaaattt atcgagccaa ttcactgtat agcagcctaa 120

atgcctaata taattgaaac ttgtgaactt aaaatttttt gcttcattaa gaatggtaaa 180

tcttcatcaa accagatagc 200

<210> 516
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 516

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gaagtcactt aatggcaata ggactgaaat attgttgaat atggttatct agtaccaatt 120

cacacttgta tacatgagta catgtctaat gctctttgtt gtgatttact taaacaagaa 180

ttatgttcat tagcaggctt 200

<210> 517
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 517

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tactcatgta tacaagtgtg aattggtact agataaccat attcaacaat atttcagtcc 120

tattgccatt aagtgacttc cacatatcct ccaacctagg cagaatttag gagttatcct 180

tacaaaaatg aaaaggttgt 200

<210> 518
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 518

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ccacgatact atttgtcttg tttaattata catatatcat aaatgtttcg acattcggtc 120

taaaatattt tggatgggtg tatactgttt aatgcaacaa tatgtaaaat agatacataa 180

agaaaagtaa aaggaataat 200

<210> 519
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 519

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cacccatcca aaatatttta gaccgaatgt cgaaacattt atgatatatg tataattaaa 120

caagacaaat agtatcgtgg taaaggaaag ataaggtgct gtacagagag catgaaagcc 180

tgctaatgaa cataattctt 200

<210> 520
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 520

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tgttgtattt caaaaggagg ttaaaggagt gatttgcttc caaagtagaa atcattccga 120

gttcgtagat tgttttaaga ataccgagtg tagtatggat tatggtggac aaaattttct 180

ataatatttt ttcataaaca 200

<210> 521
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 521

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tcttaaaaca atctacgaac tcggaatgat ttctactttg gaagcaaatc actcctttaa 120

cctccttttg aaatacaaca tccattttca attttcatcg tatttttgt aattcattat 180

tccttttact tttctttatg 200

<210> 522
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 522

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cgcactccga catctcgttc cgctttttg ctcatacacg aacccaatcc cccatcttct 120

tcggaagacc acgaaaatta tcatatatcc attgttccac aagctcaagc tcaactgcca 180

attaccagaa caccattacg 200

<210> 523
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 523

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taattttcgt ggtcttccga agaagatggg ggattgggtt cgtgtatgag caaaaaagcg 120

gaacgagatg tcggagtgcg gcggacattg tagaatgctg ctcgataacg ccatcgcact 180

catctctctc gcactctctc 200

<210> 524
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 524

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aattgttgga gctggtatca gtggactttg cattgctcag gctctttcta ccaaacacat 120

tcaatccaat ctcaatttca ttgtcactga agctaaacat cgtgttggag gtaatatcac 180

taccatggag tccgatggct 200

<210> 525
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 525

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tgaaattgag attggattga atgtgtttgg tagaaagagc ctgagcaatg caaagtccac 120

tgataccagc tccaacaatt acacaatcta atactttatc tccttctcct tggctcgtaa 180

tggtgttctg gtaattggca 200

<210> 526
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 526

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tccgatcctg tgcttactat ggcggttgac agtggattga aagacgattt ggtcttggga 120

gatcctaatg cccctcgttt cgtgctctgg aatggtaaat taaggcctgt tccttccaaa 180

cctacggacc ttccctttt 200

<210> 527
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 527

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aaacgagggg cattaggatc tcccaagacc aaatcgtctt tcaatccact gtcaaccgcc 120

atagtaagca caggatcgga gggttggaaa ctattaggac cctcttccca gatatagcca 180

tcggactcca tggtagtgat 200

<210> 528
<211> 200
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<213> Amaranthus rudis

<400> 528

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gtcttggtgc acttggtctt cgtcctcctc ctcctcctcc ttcttatgag gaatctgttg 120

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gttctggtgt ctatgctggt 200

<210> 529
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 529

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attacggcgc acaaattctt caacagattc ctcataagaa ggaggaggag gaggaggacg 120

aagaccaagt gcaccaagac cagccctaat cttaccagga aagctcatga gatcaaaaaa 180

gggaaggtcc gtaggtttgg 200

<210> 530
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<213> Amaranthus rudis

<400> 530

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aaaggtctgg accttagagc aaaagggtgg tagtatcatc gccggtacac tcaaaactat 120

tcaggaaagg aagaataatc ctccaccccc tcgagacccc cgccttccta aacctaaggg 180

ccagactgtt ggatccttta 200

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gattattctt cctttcctga atagttttga gtgtaccggc gatgatacta ccacccttt 120

gctctaaggt ccagaccttt ccaaatgcag ctttcatact caactttgca ggatcaccag 180

catagacacc agaacaaaag 200

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<213> Amaranthus rudis

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gctaggcttg gcagtaaagt caaactatcg tggacacttt ctaatattga taagtcgctc 120

aatggtgaat acattctcac ttatcaaaca cccgatggac cggtttctgt taggaccaaa 180

gcggttgtca tgactgtccc 200

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<400> 533

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gtgagaatgt attcaccatt gagcgactta tcaatattag aaagtgtcca cgatagtttg 120

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<400> 534

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gacatctcgt tccgcttttt tgctcataca cgaacccaat cccccatctt cttcggaaga 120

ccacgaaaat tatcatatat ccattgttcc acaagctcaa gctcaactgc caattaccag 180

aacaccatta cgagccaagg 200

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atatatgata attttcgtgg tcttccgaag aagatggggg attgggttcg tgtatgagca 120

aaaaagcgga acgagatgtc ggagtgcggc ggacattgta gaatgctgct cgataacgcc 180

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atctcaattt cattgtcact gaagctaaac atcgtgttgg aggtaatatc actaccatgg 180

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agagcacgaa acgaggggca ttaggatctc ccaagaccaa atcgtctttc aatccactgt 120

caaccgccat agtaagcaca ggatcggagg gttggaaact attaggaccc tcttcccaga 180

tatagccatc ggactccatg 200

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gcacttggtc ttcgtcctcc tcctcctcct ccttcttatg aggaatctgt tgaagaattt 120

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ggaggacgaa gaccaagtgc accaagacca gccctaatct taccaggaaa gctcatgaga 180

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tttgataagt gagattgtat tctccattga gcgacttatc aatattagaa agtgtccacg 120

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cccaaagaag caattagacc agaatgcttg attgatggag aactaaaagg attcgggcaa 180

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caaatcttgg catattacaa aagagtgaag atgaacttgc ggagacagtt gataaggatc 180

tcagaaaaat tctgataaat 200

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<212> DNA
<213> Amaranthus rudis

<400> 549

atttatcaga atttttctga gatccttatc aactgtctcc gcaagttcat cttcactctt 60

ttgtaatatg ccaagatttg tagcacctcc aatgtagctc aagatcaagg tcctaccggg 120

tggtgctcga ccagggaaaa gagatgaact ataaattgta cccaaggttt ccacaccctg 180

gctgcgggga tgcaattgcc 200

<210> 550
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 550

ggatctcaga aaaattctga taaatccaaa tgcgaaaggc agccgtgttc tgggagtgag 60

agtatggcca aaggcaatcc cccaattttt agttggtcac tttgatgtgc tagatgctgc 120

aaaagctggt ttggcaaatg ctgggctaaa ggggttgttt cttggtggta attatgtatc 180

aggtgttgcc ttggggaggt 200

<210> 551
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 551

acctccccaa ggcaacacct gatacataat taccaccaag aaacaacccc tttagcccag 60

catttgccaa accagctttt gcagcatcta gcacatcaaa gtgaccaact aaaaattggg 120

ggattgcctt tggccatact ctcactccca gaacacggct gcctttcgca tttggattta 180

tcagaatttt tctgagatcc 200

<210> 552
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 552

gtatcaggtg ttgccttggg gaggtgtata gagggtgctt atgactctgc ttctgaggta 60

gtggatttcc tctcacagta caaagataag tagtcaatag ggctccagca tcttggttaa 120

gtaacttttt gtagctgttg taatttggaa agatgtaaaa tagcccacac tcaaacaagt 180

ttggaaagat gtaaaagcat 200

<210> 553
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 553

atgcttttac atctttccaa acttgtttga gtgtgggcta ttttacatct ttccaaatta 60

caacagctac aaaaagttac ttaaccaaga tgctggagcc ctattgacta cttatctttg 120

tactgtgaga ggaaatccac tacctcagaa gcagagtcat aagcaccctc tatacacctc 180

cccaaggcaa cacctgatac 200

<210> 554
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 554

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ccacccggta ggaccttgat cttgagctac attggaggtg ctacaaatct tggcatatta 120

caaaagagtg aagatgaact tgcggagaca gttgataagg atctcagaaa aattctgata 180

aatccaaatg cgaaaggcag 200

<210> 555
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 555

ctgcctttcg catttggatt tatcagaatt tttctgagat ccttatcaac tgtctccgca 60

agttcatctt cactcttttg taatatgcca agatttgtag cacctccaat gtagctcaag 120

atcaaggtcc taccgggtgg tgctcgacca gggaaaagag atgaactata aattgttccc 180

aaggtttcca caccctggcc 200

<210> 556
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 556

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tcccccaatt tttagttggt cactttgatg tgctagatgc tgcaaaagct ggtttggcaa 120

atgctgggct aaaggggttg tttcttggtg gtaattatgt atcaggtgtt gccttgggga 180

ggtgtataga gggtgcttat 200

<210> 557
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 557

ataagcaccc tctatacacc tccccaaggc aacacctgat acataattac caccaagaaa 60

caaccccttt agcccagcat ttgccaaacc agcttttgca gcatctagca catcaaagtg 120

accaactaaa aattggggga ttgcctttgg ccatactctc actcccagaa cacggctgcc 180

tttcgcattt ggatttatca 200

<210> 558
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 558

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gtacaaagat aagtagtcaa tagggctcca gcatcttggt taagtaactt tttgtagctg 120

ttgtaatttg gaaagatgta aaatagccca cactcaaaca agtttggaaa gatgtaaaag 180

catgagatac agtcggtgtt 200

<210> 559
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 559

aacaccgact gtatctcatg cttttacatc tttccaaact tgtttgagtg tgggctattt 60

tacatctttc caaattacaa cagctacaaa aagttactta accaagatgc tggagcccta 120

ttgactactt atctttgtac tgtgagagga aatccactac ctcagaagca gagtcataag 180

caccctctat acacctcccc 200

<210> 560
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 560

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ccttccaaac ctacggacct tccctttttt gatctcatga gctttcctgg taagattagg 120

gctggtcttg gtgcacttgg tcttcgtcct cctcctcctc ctccttctta tgaggaatct 180

gttgaagaat ttgtgcgccg 200

<210> 561
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 561

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ccaagtgcac caagaccagc cctaatctta ccaggaaagc tcatgagatc aaaaaaggga 120

aggtccgtag gtttggaagg aacaggcctt aatttaccat tccagagcac gaaacgaggg 180

gcattaggat ctcccaagac 200

<210> 562
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 562

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ccccctcgag acccgtccgt aatcaccatt acttattgct ttccatcacc ttgaatctta 120

ccttaatata catgtattta attgataatg tcacattgcc tcatttgcag ccgccttcct 180

aaacctaagg gccagactgt 200

<210> 563
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 563

acagtctggc ccttaggttt aggaaggcgg ctgcaaatga ggcaatgtga cattatcaat 60

taaatacatg tatattaagg taagattcaa ggtgatggaa agcaataagt aatggtgatt 120

acggacgggt ctcgaggggg tggaggatta tttttccttt cctgaatagt tttgagtgta 180

ccggctatga tactaccacc 200

<210> 564
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 564

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gagcagcatt ctacaatgtc cgccgcactc cgacatctcg ttccgctttt ttgctcatac 120

acgaacccaa tcccccatct tcttcggaag accacgaaaa ttatcatata tccattgttc 180

cacaagctca agctcaactg 200

<210> 565
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 565

cagttgagct tgagcttgtg gaacaatgga tatatgataa ttttcgtggt cttccgaaga 60

agatggggga ttgggttcgt gtatgagcaa aaaagcggaa cgagatgtcg gagtgcggcg 120

gacattgtag aatgctgctc gataacgcca tcgcactcat ctctctcgca ctctctctgg 180

ttatcctatc ttcaaatcaa 200

<210> 566
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 566

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ggagataaag tattagattg tgtaattgtt ggagctggta tcagtggact ttgcattgct 120

caggctcttt ctaccaaaca cattcaatcc aatctcaatt tcattgtcac tgaagctaaa 180

catcgtgttg gaggtaatat 200

<210> 567
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 567

atattacctc caacacgatg tttagcttca gtgacaatga aattgagatt ggattgaatg 60

tgtttggtag aaagagcctg agcaatgcaa agtccactga taccagctcc aacaattaca 120

caatctaata ctttatctcc ttctccttgg ctcgtaatgg tgttctggta attggcagtt 180

gagcttgagc ttgtggaaca 200

<210> 568
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 568

ttttaaccaa tcctcaaaat ttacaccatg gagatgtctg cggataagaa ttagtaactg 60

tagcagctgt aattgttgca tgcagtttta tggtttgcct tgcaattcaa acttgggata 120

ttgtttgcct tgcaatttgt agtttagtgt ttgcccttca ctttgtattt tagttatttt 180

tttcattgca atttgctctt 200

<210> 569
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 569

aagagcaaat tgcaatgaaa aaaataacta aaatacaaag tgaagggcaa acactaaact 60

acaaattgca aggcaaacaa tatcccaagt ttgaattgca aggcaaacca taaaactgca 120

tgcaacaatt acagctgcta cagttactaa ttcttatccg cagacatctc catggtgtaa 180

attttgagga ttggttaaaa 200

<210> 570
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 570

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gttgctgcag attctctttc taaattttac tatccaccag tcgcagcagt gtccctttct 120

tatcccaaag aagcaattag accagaatgc ttgatcgatg gagaactaaa aggattcggg 180

caattgcatc cccgcagcca 200

<210> 571
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 571

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ctaattgctt ctttgggata agaaagggac actgctgcga ctggtggata gtaaaattta 120

gaaagagaat ctgcagcaac atcctgagca agaaaggtca ccattttata cttcaaagag 180

caaattgcaa tgaaaaaaat 200

<210> 572
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 572

tcgggcaatt gcatccccgc agccagggtg tggaaacctt gggtatatgc tcccattcaa 60

ctatatctca ataattatga gtatttttct ttctctggat tattcaattt ggtgacgtta 120

aattttgact gtactcgaca ggaacaattt atagttcatc tcttttccct ggtcgagcac 180

cacccggtag gaccttgatc 200

<210> 573
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 573

gatcaaggtc ctaccgggtg gtgctcgacc agggaaaaga gatgaactat aaattgttcc 60

tgtcgagtac agtcaaaatt taacgtcacc aaattgaata atccagagaa agaaaaatac 120

tcataattat tgagatatag ttgaatggga gcatataccc aaggtttcca caccctggct 180

gcggggatgc aattgcccga 200

<210> 574
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 574

agcaccaccc ggtaggacct tgatcttgag ctacattgga ggtgctacaa atcttggcat 60

attacaaaag gcaagtcatt tatacaatta tatgtgtcct tgtatcctca aataagtcgt 120

atcaatcctg acgacatgct tctatcaatg cagagtgaag atgaacttgc ggagacagtt 180

gataaggatc tcagaaaaat 200

<210> 575
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 575

atttttctga gatccttatc aactgtctcc gcaagttcat cttcactctg cattgataga 60

agcatgtcgt caggattgat acgacttatt tgaggataca aggacacata taattgtata 120

aatgacttgc cttttgtaat atgccaagat ttgtagcacc tccaatgtag ctcaagatca 180

aggtcctacc gggtggtgct 200

<210> 576
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 576

cagttgataa ggatctcaga aaaattctga taaatccaaa tgcgaaaggc agccgtgttc 60

tgggagtgag agtatggcca aaggcaatcc cccaattttt agttggtcac tttgatctgc 120

tagatgctgc aaaagctggt ttggcaaatg ctgggctaaa ggggttgttt cttggtggta 180

attatgtatc aggtgttgcc 200

<210> 577
<211> 200
<212> DNA
<213> Amaranthus rudis

<400> 577

ggcaacacct gatacataat taccaccaag aaacaacccc tttagcccag catttgccaa 60

accagctttt gcagcatcta gcagatcaaa gtgaccaact aaaaattggg ggattgcctt 120

tggccatact ctcactccca gaacacggct gcctttcgca tttggattta tcagaatttt 180

tctgagatcc ttatcaactg 200

<210> 578
<211> 200
<212> DNA
<213> Amaranthus spinosus

<400> 578

agagagagtg caagagagat gagtgccatg gcgttatcga gcagcattct acaatgtccg 60

ccgcactccg acttctcttt ccgcttttct gcttatacac caacccgctc ccccttcttc 120

ttcggaagac ctccaaaatt atcatatatc cattgttcca caagctcaag ctcaactgcc 180

aattaccaga acacgattac 200

<210> 579
<211> 200
<212> DNA
<213> Amaranthus spinosus

<400> 579

gtaatcgtgt tctggtaatt ggcagttgag cttgagcttg tggaacaatg gatatatgat 60

aattttggag gtcttccgaa gaagaagggg gagcgggttg gtgtataagc agaaaagcgg 120

aaagagaagt cggagtgcgg cggacattgt agaatgctgc tcgataacgc catggcactc 180

atctctcttg cactctctct 200

<210> 580
<211> 200
<212> DNA
<213> Amaranthus spinosus

<400> 580

ctgccaatta ccagaacacg attacgaccc aaggagaagg agataaagta ttggattgtg 60

taattgttgg agctggtatc agtggacttt gcattgctca agctctttct accaaacaca 120

ttcaatccaa tctcaatttc attgtcactg aagctaaaaa ccgtgttgga ggtaatatca 180

ctaccatgga gtccgatggc 200

<210> 581
<211> 200
<212> DNA
<213> Amaranthus spinosus

<400> 581

gccatcggac tccatggtag tgatattacc tccaacacgg tttttagctt cagtgacaat 60

gaaattgaga ttggattgaa tgtgtttggt agaaagagct tgagcaatgc aaagtccact 120

gataccagct ccaacaatta cacaatccaa tactttatct ccttctcctt gggtcgtaat 180

cgtgttctgg taattggcag 200

<210> 582
<211> 200
<212> DNA
<213> Amaranthus spinosus

<400> 582

tatcactacc atggagtccg atggctatat ctgggaagag ggtcctaata gtttccaacc 60

ctccgatcct gtgcttacta tggcggttga cagtggattg aaagatgatt tggtcttggg 120

agatcctaat gcccctcgtt tcgtgctctg gaatggtaaa ttaaggcctg ttccttccaa 180

acctacggac cttccctttt 200

<210> 583
<211> 200
<212> DNA
<213> Amaranthus spinosus

<400> 583

aaaagggaag gtccgtaggt ttggaaggaa caggccttaa tttaccattc cagagcacga 60

aacgaggggc attaggatct cccaagacca aatcatcttt caatccactg tcaaccgcca 120

tagtaagcac aggatcggag ggttggaaac tattaggacc ctcttcccag atatagccat 180

cggactccat ggtagtgata 200

<210> 584
<211> 200
<212> DNA
<213> Amaranthus spinosus

<400> 584

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ggtcttggtg ctcttggtct tcgtcctcct cctccttctt atgaggagtc tgttgaagaa 120

tttgtgcgcc gtaatctcgg tgatgaggtt ttcgaacgct tgattgaacc cttttgttct 180

ggtgtgtatg ctggtgatcc 200

<210> 585
<211> 200
<212> DNA
<213> Amaranthus spinosus

<400> 585

ggatcaccag catacacacc agaacaaaag ggttcaatca agcgttcgaa aacctcatca 60

ccgagattac ggcgcacaaa ttcttcaaca gactcctcat aagaaggagg aggaggacga 120

agaccaagag caccaagacc agccctaatc ttaccaggaa agctcatgag atcaaaaaag 180

ggaaggtccg taggtttgga 200

<210> 586
<211> 200
<212> DNA
<213> Amaranthus spinosus

<400> 586

gttctggtgt gtatgctggt gatccttcaa agttgagtat gaaagctgca tttggaaagg 60

tctggacctt agagcaaaag ggtggtagta tcatcgccgg tacactcaaa actattcagg 120

aaaggaagaa taatcctcca ccgcctcgag acccccgcct tcctaaacct aagggccaga 180

ctgttggatc ctttaggaaa 200

<210> 587
<211> 200
<212> DNA
<213> Amaranthus spinosus

<400> 587

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tggaggatta ttcttccttt cctgaatagt tttgagtgta ccggcgatga tactaccacc 120

cttttgctct aaggtccaga cctttccaaa tgcagctttc atactcaact ttgaaggatc 180

accagcatac acaccagaac 200

<210> 588
<211> 200
<212> DNA
<213> Amaranthus spinosus

<400> 588

ccagactgtt ggatccttta ggaaagggct cattatgtta cctaccgcca ttgctgctag 60

gcttggcagt aaagtcaaac tatcatggac actttctaat attgataagt cgctcaatgg 120

tgaatacaat ctcacttatc aaacacccga tggaccggtt tctgttagga ccaaagcggt 180

tgtcatgact gtcccttcat 200

<210> 589
<211> 200
<212> DNA
<213> Amaranthus spinosus

<400> 589

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gataagtgag attgtattca ccattgagcg acttatcaat attagaaagt gtccatgata 120

gtttgacttt actgccaagc ctagcagcaa tggcggtagg taacataatg agccctttcc 180

taaaggatcc aacagtctgg 200

<210> 590
<211> 200
<212> DNA
<213> Amaranthus spinosus

<400> 590

gcggttgtca tgactgtccc ttcatacatt gcaagtagcc tgcttcgtcc gctctcagat 60

gttgctgcag attctctttc taaattttac tatccaccag tcgcagcagt gtccctttct 120

tatcccaaag aagcaattag accagaatgc ttgatcgatg gagaactaaa aggattcggg 180

caattgcatc cccgcagcca 200

<210> 591
<211> 200
<212> DNA
<213> Amaranthus spinosus

<400> 591

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ctaattgctt ctttgggata agaaagggac actgctgcga ctggtggata gtaaaattta 120

gaaagagaat ctgcagcaac atctgagagc ggacgaagca ggctacttgc aatgtatgaa 180

gggacagtca tgacaaccgc 200

<210> 592
<211> 200
<212> DNA
<213> Amaranthus spinosus

<400> 592

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ctcttttccc tggtcgagca ccacccggta ggaccttgat cttgagctac attggaggtg 120

ctacaaatgt tggcatatta caaaagagtg aagatgaact tgcggagaca gttgacaagg 180

atctcagaaa aattctgata 200

<210> 593
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<212> DNA
<213> Amaranthus spinosus

<400> 593

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taatatgcca acatttgtag cacctccaat gtagctcaag atcaaggtcc taccgggtgg 120

tgctcgacca gggaaaagag atgaactata aattgttccc aaggtttcca caccctggct 180

gcggggatgc aattgcccga 200

<210> 594
<211> 200
<212> DNA
<213> Amaranthus thunbergii

<400> 594

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gcactccgac atctcgttcc gcttttctgc tcattcacca acccactccc ccatcttctt 120

cggaagacca cgaaaattat catatatcca ttgttccaca agctcaagct caactgccaa 180

ttaccagaac acgattacga 200

<210> 595
<211> 200
<212> DNA
<213> Amaranthus thunbergii

<400> 595

tcgtaatcgt gttctggtaa ttggcagttg agcttgagct tgtggaacaa tggatatatg 60

ataattttcg tggtcttccg aagaagatgg gggagtgggt tggtgaatga gcagaaaagc 120

ggaacgagat gtcggagtgc ggcggacatt gtagaatgct gctcgataac gccatcgcac 180

tcatttctct cgcactctct 200

<210> 596
<211> 200
<212> DNA
<213> Amaranthus thunbergii

<400> 596

gccaattacc agaacacgat tacgacccaa ggagaaggag ataaagtatt agattgtgta 60

attgttggag ctggtatcag tggactttgc attgcgcagg ctctttctac caaacacatt 120

caatccaatc tcaatttcat tgtcactgaa gctaaacatc gtgttggagg taatatcact 180

accatggagt ccgatggcta 200

<210> 597
<211> 200
<212> DNA
<213> Amaranthus thunbergii

<400> 597

tagccatcgg actccatggt agtgatatta cctccaacac gatgtttagc ttcagtgaca 60

atgaaattga gattggattg aatgtgtttg gtagaaagag cctgcgcaat gcaaagtcca 120

ctgataccag ctccaacaat tacacaatct aatactttat ctccttctcc ttgggtcgta 180

atcgtgttct ggtaattggc 200

<210> 598
<211> 200
<212> DNA
<213> Amaranthus thunbergii

<400> 598

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ctgatcctgt gcttactatg gcggttgaca gtggattgaa agacgatttg gtcttgggag 120

atcctaatgc ccctcgtttc gtgctctgga atggtaaatt aaggcctgtt ccttccaaac 180

ctacggacct tccctttttt 200

<210> 599
<211> 200
<212> DNA
<213> Amaranthus thunbergii

<400> 599

aaaaaaggga aggtccgtag gtttggaagg aacaggcctt aatttaccat tccagagcac 60

gaaacgaggg gcattaggat ctcccaagac caaatcgtct ttcaatccac tgtcaaccgc 120

catagtaagc acaggatcag agggttggaa actattagga ccctcttccc agatatagcc 180

atcggactcc atggtagtga 200

<210> 600
<211> 200
<212> DNA
<213> Amaranthus thunbergii

<400> 600

caaacctacg gaccttccct tttttgatct catgagcttt cctggtaaga ttagggctgg 60

tcttggtgca cttggtcttc gtcgtcctcc tcctccttct tcttatgagg aatctgttga 120

agaatttgtg cgccgtaatc tcggcgatga ggtcttcgaa cgcttgatcg aacccttttg 180

ttctggtgtg tatgctggtg 200

<210> 601
<211> 200
<212> DNA
<213> Amaranthus thunbergii

<400> 601

caccagcata cacaccagaa caaaagggtt cgatcaagcg ttcgaagacc tcatcgccga 60

gattacggcg cacaaattct tcaacagatt cctcataaga agaaggagga ggaggacgac 120

gaagaccaag tgcaccaaga ccagccctaa tcttaccagg aaagctcatg agatcaaaaa 180

agggaaggtc cgtaggtttg 200

<210> 602
<211> 200
<212> DNA
<213> Amaranthus thunbergii

<400> 602

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aaggtctgga ccttagagca aaagggtggt agtatcatcg ccggtacact caaaactatt 120

caggaaagga agaataatcc tccacccccct cgagaccccc gccttcctaa acctaagggc 180

cagactgttg gatcctttag 200

<210> 603
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<212> DNA
<213> Amaranthus thunbergii

<400> 603

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gcatacacac cagaacaaaa 200

<210> 604
<211> 200
<212> DNA
<213> Amaranthus thunbergii

<400> 604

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ctaggcttgg cagtaaagtc aaactatcgt ggacactttc taatattgat aagtcgctca 120

atggtgaata cattctcact tatcaaacac ccgatggacc ggtttctgtt aggaccaaag 180

cggttgtcat gactgtccct 200

<210> 605
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<212> DNA
<213> Amaranthus thunbergii

<400> 605

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agtgagaatg tattcaccat tgagcgactt atcaatatta gaaagtgtcc acgatagttt 120

gactttactg ccaagcctag cagcaatggc ggtaggtaac ataatgagcc ctttcctaaa 180

ggatccaaca gtctggccct 200

<210> 606
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<212> DNA
<213> Amaranthus thunbergii

<400> 606

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agatgttgct gcagattctc tttctaagtt ttactatcca ccagtcgcag cagtgtccct 120

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cgggcaattg catccccgca 200

<210> 607
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<212> DNA
<213> Amaranthus thunbergii

<400> 607

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gagaatctgc agcaacatct gagagcggac gaagcaggct acttgcaatg tatgaaggga 180

cagtcatgac aaccgctttg 200

<210> 608
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<212> DNA
<213> Amaranthus thunbergii

<400> 608

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ggtgctacaa atgttggaat attacaaaag agtgaagatg aacttgcgga gacagttgat 180

aaggatctca gaaaaattct 200

<210> 609
<211> 200
<212> DNA
<213> Amaranthus thunbergii

<400> 609

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attccaacat ttgtagcacc tccaatgtag ctcaagatca aggtcctacc gggtggtgct 120

cgaccaggga aaagagatga actataaatt gttcccaagg tttccacacc ctggctgcgg 180

ggatgcaatt gcccgaatcc 200

<210> 610
<211> 200
<212> DNA
<213> Amaranthus viridis

<400> 610

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aatgtccgcc gcactccgac atctcgttcc gcttttctgc tcattcacca acccactccc 120

ccatcttctt cggaagacca cgaaaattat catatatcca ttgttccaca agctcaagct 180

caactgccaa ttaccagaac 200

<210> 611
<211> 200
<212> DNA
<213> Amaranthus viridis

<400> 611

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tggtcttccg aagaagatgg gggagtgggt tggtgaatga gcagaaaagc ggaacgagat 120

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cgcactctct ctggttatcc 200

<210> 612
<211> 200
<212> DNA
<213> Amaranthus viridis

<400> 612

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agattgtgta attgttggag ctggtatcag tggactttgc attgcgcagg ctctttctac 120

caaacacatt caatccaatc tcaatttcat tgtcactgaa gctaaacatc gtgttggagg 180

taatattact accatggagt 200

<210> 613
<211> 200
<212> DNA
<213> Amaranthus viridis

<400> 613

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gattggattg aatgtgtttg gtagaaagag cctgcgcaat gcaaagtcca ctgataccag 120

ctccaacaat tacacaatct aatactttat ctccttctcc ttgggtcgta atcgtgttct 180

ggtaattggc agttgagctt 200

<210> 614
<211> 200
<212> DNA
<213> Amaranthus viridis

<400> 614

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ttccaaccct ctgatcctgt gcttactatg gcggttgaca gtggattgaa agacgatttg 120

gtcttgggag atcctaatgc ccctcgtttc gtgctctgga atggtaaatt aaggcctgtt 180

ccttccaaac ctacggacct 200

<210> 615
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<212> DNA
<213> Amaranthus viridis

<400> 615

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gcattaggat ctcccaagac caaatcgtct ttcaatccac tgtcaaccgc catagtaagc 120

acaggatcag agggttggaa actattagga ccctcttccc agatatagcc atcggactcc 180

atggtagtaa tattacctcc 200

<210> 616
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<213> Amaranthus viridis

<400> 616

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aacccttttg ttctggtgtg 200

<210> 617
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<212> DNA
<213> Amaranthus viridis

<400> 617

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tgcaccaaga ccagccctaa tcttaccagg aaagctcatg agatcaaaaa agggaaggtc 180

cgtaggtttg gaaggaacag 200

<210> 618
<211> 200
<212> DNA
<213> Amaranthus viridis

<400> 618

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tgcatttgga aaggtctgga ccttagagca aaagggtggt agtatcatcg ccggtacact 120

caaaactatt caggaaagga agaataatcc tccacccccc cgagaccccc gccttcctaa 180

acctaagggc cagactgttg 200

<210> 619
<211> 200
<212> DNA
<213> Amaranthus viridis

<400> 619

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tcctttcctg aatagttttg agtgtaccgg cgatgatact accacccttt tgctctaagg 120

tccagacctt tccaaatgca gctttcatac tcaactttgt aggatcacca gcatacacac 180

cagaacaaaa gggttcgatc 200

<210> 620
<211> 200
<212> DNA
<213> Amaranthus viridis

<400> 620

cctaaaccta agggccagac tgttggatcc tttaggaaag ggctcattat gttacctacc 60

gccattgctg ctaggcttgg cagtaaagtc aaactatcgt ggacactttc taatattgat 120

aagtcgctca atggtgaata caatctcact tatcaaacac ccgatggacc ggtttctgtt 180

aggaccaaag cggttgtcat 200

<210> 621
<211> 200
<212> DNA
<213> Amaranthus viridis

<400> 621

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tattcaccat tgagcgactt atcaatatta gaaagtgtcc acgatagttt gactttactg 120

ccaagcctag cagcaatggc ggtaggtaac ataatgagcc ctttcctaaa ggatccaaca 180

gtctggccct taggtttagg 200

<210> 622
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<212> DNA
<213> Amaranthus viridis

<400> 622

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gtccgctctc agatgttgct gcagattctc tttctaagtt ttactatcca ccagtcgcag 120

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taaaaggatt cgggcaattg 200

<210> 623
<211> 200
<212> DNA
<213> Amaranthus viridis

<400> 623

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gggataagaa agggacactg ctgcgactgg tggatagtaa aacttagaaa gagaatctgc 120

agcaacatct gagagcggac gaagcaggct acttgcaatg tatgaaggga cagtcatgac 180

aaccgctttg gtcctaacag 200

<210> 624
<211> 200
<212> DNA
<213> Amaranthus viridis

<400> 624

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aatttatagt tcatctcttt tccctggtcg agcaccaccc ggtaggacct tgatcttgag 120

ctacattgga ggtgctacaa atgttggaat attacaaaag agtgaagatg aacttgcgga 180

gacagttgat aaggatctca 200

<210> 625
<211> 200
<212> DNA
<213> Amaranthus viridis

<400> 625

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ttgtagcacc tccaatgtag ctcaagatca aggtcctacc gggtggtgct cgaccaggga 120

aaagagatga actataaatt gttcccaagg tttccacacc ctggctgcgg ggatgcaatt 180

gcccgaatcc ttttagttct 200

<210> 626
<211> 200
<212> DNA
<213> Amaranthus viridis

<400> 626

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cgtgttctgg gagtgagagt atggccaaag gcaatccccc aatttttagt tggtcacttt 120

gatctgctag atgctgcaaa agctggtttg gcaaatgctg ggctaaaggg gttgtttctt 180

ggtggtaatt atgtatcagg 200

<210> 627
<211> 200
<212> DNA
<213> Amaranthus viridis

<400> 627

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tttgcagcat ctagcagatc aaagtgacca actaaaaatt gggggattgc ctttggccat 120

actctcactc ccagaacacg gctgcctttc gcatttggat ttatcagaat ttttctgaga 180

tccttatcaa ctgtctccgc 200

<210> 628
<211> 200
<212> DNA
<213> Amaranthus viridis

<400> 628

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actctgcatc tcaggtagtg gatttcctct cacagtacaa agacaagtag tcaatagggc 120

tccaccttcc tggttaacta acttttgtag ctcttgtaat ttgtatcatg taatattatt 180

cagatgtaaa agatacagtc 200

<210> 629
<211> 200
<212> DNA
<213> Amaranthus viridis

<400> 629

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tagttaacca ggaaggtgga gccctattga ctacttgtct ttgtactgtg agaggaaatc 120

cactacctga gatgcagagt cataagcacc ctctatacac ctccccaagg caacacctga 180

tacataatta ccaccaagaa 200

<210> 630
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 630

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cgcttttaa aaccaagctt ctatcgagtt taatgactaa aatttagtaa aatataatga 120

ccaatatgga aggtatttca tgacaattaa ccctaaatat attaggtaac cacaaaggag 180

ggctctctgt tgggaaagca 200

<210> 631
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 631

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tgaaatacct tccatattgg tcattatatt ttactaaatt ttagtcatta aactcgatag 120

aagcttggtt ttaaaaagcg cgaagcgcac taaagcgacg aggtccaaaa ccgaggcgca 180

aagcgcaaaa gcggtgggat 200

<210> 632
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 632

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tgcatatttg gattcttatt cggaccagaa gtagaaggat gggtgttgct agattatgtt 120

ttaaccggta aactttattt cttatatctt atttttattc ttatttttca atgcaaagag 180

tcaaacgacg caagtgtgat 200

<210> 633
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 633

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aaataaagtt taccggttaa aacataatct agcaacaccc atccttctac ttctggtccg 120

aataagaatc caaatatgca atcacggatt cggctgcttt gcatccggag gatattgctt 180

tcccaacaga gagccctcct 200

<210> 634
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 634

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ccgacccgac ccgaaccaaa ccgataaaaa caaataccaa ctctgataac cagattactc 120

acagagaaac caacaatggc ttcaccaact atagttgaca accaaagtta gggttcttct 180

aaattctaat tacattttat 200

<210> 635
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 635

ataaaatgta attagaattt agaagaaccc taactttggt tgtcaactat agttggtgaa 60

gccattgttg gtttctctgt gagtaatctg gttatcagag ttggtatttg tttttatcgg 120

tttggttcgg gtcgggtcgg gtcgggtaga gaggctacct tttctttact gtgggcaaaa 180

gtgcaaaacc attgcgtgcg 200

<210> 636
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 636

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tataattcag aaacctaatc taatttatta attaattaat taagtggttt tgttttctct 120

acagaacctg ctaagagagt tgctgttgtt ggtgctggtg tcaggtactt aaacttaaaa 180

cctaaaacag ataattattt 200

<210> 637
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 637

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actctcttag caggttctgt agagaaaaca aaaccactta attaattaat taataaatta 120

gattaggttt ctgaattata gatgcaaatg ctacaaatgt gtaagtaaaa ttaggataaa 180

atgtaattag aatttagaag 200

<210> 638
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 638

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ttttgatata ataatatata caatttgtaa aaatatatag atcatgattg ataattagag 180

gaatggaata ttttgataat 200

<210> 639
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 639

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tatatattat tatatcaaaa cattctgtaa ctcctaaatc cctaaatgta tataattgac 120

tgatcaaacc ttagcaaatt acatgaacag aataagtgaa tctagtaaat aagcaaaata 180

attatctgtt ttaggtttta 200

<210> 640
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 640

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gtgctgctgc ttataagtta aagttacatg gattgaatgt gactgtgttt gaagctgatg 120

ggagcgttgg tgggaaacta aagagcgttt cgcaagatgg tttaatatgg gatgagggtg 180

ccaatactat ggtatgtttt 200

<210> 641
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 641

aaaacatacc atagtattgg caccctcatc ccatattaaa ccatcttgcg aaacgctctt 60

tagtttccca ccaacgctcc catcagcttc aaacacagtc acattcaatc catgtaactt 120

taacttataa gcagcagcac aaccactgaa aaaaatgtaa catattgttt tttcaattat 180

caaaatattc cattcctcta 200

<210> 642
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 642

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tttatgaggt ttgttgtatg tgttacctta tgtagactga gagtgaggca gatgttagca 120

gtttgattga tgatcttggg cttcgagata aacagcagtt tgtaagttgt tgtgtttgat 180

atagctgcca tacttcctat 200

<210> 643
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 643

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cccaagatca tcaatcaaac tgctaacatc tgcctcactc tcagtctaca taaggtaaca 120

catacaacaa acctcataaa aaatgctaac aaagtgaaac caatcatatt atactaaaac 180

ataccatagt attggcaccc 200

<210> 644
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<212> DNA
<213> Ambrosia trifida

<400> 644

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aattattttg taaaatgaca agaaacagat tctttgtttt atttgtgtat gaataatgaa 120

tagataagac taaattcatt tttaggtctg cttcgatttg tcttttataa tcactacgct 180

gagttttaaa tctttaacat 200

<210> 645
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 645

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aatgaattta gtcttatcta ttcattattc atacacaaat aaaacaaaga atctgtttct 120

tgtcatttta caaaataatt gcatatgttc atagatataa tttaccacac aagctatagg 180

aagtatggca gctatatcaa 200

<210> 646
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 646

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gtacattgta agaaatggaa aacctgtatt ggtatggata tctcaacacc acttaactag 120

tgatcctcta tttttagtaa aattcattta ctaaaaaaag gggggctgaa aaattaaaat 180

ttaatgtgaa ttgtgcttta 200

<210> 647
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 647

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ttactaaaaa tagaggatca ctagttaagt ggtgttgaga tatccatacc aatacaggtt 120

ttccatttct tacaatgtac cgcttgtgct gtgaaattgg ctgcaacagg aaataatgtt 180

aaagatttaa aactcagcgt 200

<210> 648
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 648

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aataacatga gtagtctgtt gctctggaaa cccgtattgc aacccatgaa aagatccaaa 120

tcacggtttt tcaaacactg ttttatactt ttatgtccag ggaacaaaaa accaaaatct 180

ttcctgagtg aggccttagt 200

<210> 649
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 649

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cagtgtttga aaaaccgtga tttggatctt ttcatgggtt gcaatacggg tttccagagc 120

aacagactac tcatgttatt atttgacttt gatgaggtta agcattcaaa cctaataaag 180

cacaattcac attaaatttt 200

<210> 650
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 650

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ttcatgtctc tctatattga ccatgactca gtctatatca tgattgcaga taccttctaa 120

cccaattgca ctgattagca gcagttttct ttccactcag tcaaaggtat gttagtagct 180

cctgccacct tgaaggttca 200

<210> 651
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 651

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tgctaatcag tgcaattggg ttagaaggta tctgcaatca tgatatagac tgagtcatgg 120

tcaatataga gagacatgaa cttgataaat ataaaagata aataataaga agacaactaa 180

ggcctcactc aggaaagatt 200

<210> 652
<211> 200
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<213> Ambrosia trifida

<400> 652

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ctcgcatact atcttcttaa tgttgttcaa tgttgagatt aaagtgcaat ctttattcta 120

ttttgcttaa tcaaatataa tgtttattta ttttaatttt attaaaaaag tatctacgta 180

agtattacaa aaagtaaaaa 200

<210> 653
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<212> DNA
<213> Ambrosia trifida

<400> 653

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ttatatttga ttaagcaaaa tagaataaag attgcacttt aatctcaaca ttgaacaaca 120

ttaagaagat agtatgcgag tgaacgatct caataagata tggcatactt atgcttgaac 180

cttcaaggtg gcaggagcta 200

<210> 654
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 654

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cccaacatcg aaatgagtaa cgctgctttg agttaagggt gcaaaatgtc atataataaa 180

taaagatgtt ctatgatgct 200

<210> 655
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 655

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agagtactag atatatgaca ttagactttg agatcatctc atcaacgggg aagagttttt 180

acttttgta atacttacgt 200

<210> 656
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 656

ataaataaag atgttctatg atgctttgat atttgtttcg cactttcact tatcccccat 60

ggtattttta acttgttttt aaaagtagaa gatttttttt attgatgtgc atgcgattat 120

tatcggcttt gtttgcaaat tttacaggtt caaattcttt tagagccatt tttatggaag 180

aagactaagt catctgacga 200

<210> 657
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 657

tcgtcagatg acttagtctt cttccataaa aatggctcta aaagaatttg aacctgtaaa 60

atttgcaaac aaagccgata ataatcgcat gcacatcaat aaaaaaaatc ttctactttt 120

aaaaacaagt taaaaatacc atgggggata agtgaaagtg cgaaacaaat atcaaagcat 180

catagaacat ctttatttat 200

<210> 658
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 658

ggaagaagac taagtcatct gacgaacccg agaggtaaaa tacatagcct tgttccattt 60

catcggcttg aagtagttat attcggtaca tgccattagg ttcttaacca tgtattttgc 120

agtgttggag gattctttca acgtcatttt gggaaggagg tgtttgtata ttcgacataa 180

tgttttgttt ctgttctgat 200

<210> 659
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 659

atcagaacag aaacaaaaca ttatgtcgaa tatacaaaca cctccttccc aaaatgacgt 60

tgaaagaatc ctccaacact gcaaaataca tggttaagaa cctaatggca tgtaccgaat 120

ataactactt caagccgatg aaatggaaca aggctatgta ttttacctct cgggttcgtc 180

agatgactta gtcttcttcc 200

<210> 660
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 660

cataatgttt tgtttctgtt ctgattctgt ttctcatagt tattaatatt tgacctgctt 60

atctaaggtt gttgagtatc tcattgatcc agttgttgcg ggaacaagcg gtggagatcc 120

tgaatcactc tctgtgagta actattgttt ctccacacat ttttttggag aaatatacat 180

tgctgcttta cattaacgac 200

<210> 661
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 661

gtcgttaatg taaagcagca atgtatattt ctccaaaaaa atgtgtggag aaacaatagt 60

tactcacaga gagtgattca ggatctccac cgcttgttcc cgcaacaact ggatcaatga 120

gatactcaac aaccttagat aagcaggtca aatattaata actatgagaa acagaatcag 180

aacagaaaca aaacattatg 200

<210> 662
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 662

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cttttccaca cagatgcgtc atgcatttcc tgagctatgg gatttagaga gaaggtatgt 120

ttgtaacaaa cagtagtaat tcttcttcaa acgatctgtg gaataatgac ttttgaccac 180

ttatttctga agacctaaaa 200

<210> 663
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 663

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attactactg tttgttacaa acataccttc tctctaaatc ccatagctca ggaaatgcat 120

gacgcatctg tgtggaaaag taaaagaatt caagcaatat attaaacggt ttaaggtcgt 180

taatgtaaag cagcaatgta 200

<210> 664
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 664

accacttatt tctgaagacc taaaatcaat ttaatactta caactattta attcaggttt 60

ggttcaatca tttctggggc atttcaatct atggtatctt ccagaggtgg gaaaaggaaa 120

ccttctggaa acagcaaacg taggcgtggt tccttttctt tttttggtgg gatgcaggta 180

agacgagggt gatttactga 200

<210> 665
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 665

tcagtaaatc accctcgtct tacctgcatc ccaccaaaaa aagaaaagga accacgccta 60

cgtttgctgt ttccagaagg tttccttttc ccacctctgg aagataccat agattgaaat 120

gccccagaaa tgattgaacc aaacctgaat taaatagttg taagtattaa attgatttta 180

ggtcttcaga aataagtggt 200

<210> 666
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 666

aggtaagacg agggtgattt actgatttag ataagaccct aaatttagtt attgttatct 60

tttaattaat tacagatgtt atttgggtcg ttcatgcttt tttgctatgc agacactcac 120

tgatgcacta tgcaaagaga ttggacccca tgaagttaat cttcaatcaa aggtgcttga 180

aatgtcctac agctgcgatg 200

<210> 667
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 667

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tctctttgca tagtgcatca gtgagtgtct gcatagcaaa aaagcatgaa cgacccaaat 120

aacatctgta attaattaaa agataacaat aactaaattt agggtcttat ctaaatcagt 180

aaatcaccct cgtcttacct 200

<210> 668
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 668

cttgaaatgt cctacagctg cgatgataat gcggttggta attggtcaat ttattgtgct 60

ccagatcaaa acaaacaatt tcagcaatct tttgatgctg tgatcatgac tgtgagtgcc 120

ttcattgggt aatcttttac ttatcagtga cataaagtta gttaatttct tgcattcttg 180

atgaagatag ttttttgtat 200

<210> 669
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 669

atacaaaaaa ctatcttcat caagaatgca agaaattaac taactttatg tcactgataa 60

gtaaaagatt acccaatgaa ggcactcaca gtcatgatca cagcatcaaa agattgctga 120

aattgtttgt tttgatctgg agcacaataa attgaccaat taccaaccgc attatcatcg 180

cagctgtagg acatttcaag 200

<210> 670
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 670

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tggatattaa tacatgggat gggaattttt ttaatcttga gtttttctct gatggttatt 120

aagtgttaga tgcatctaat tttaactgac aaagaaaata ttccccaatt aggccccact 180

taacaatgta aaagaaatga 200

<210> 671
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 671

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attagatgca tctaacactt aataaccatc agagaaaaac tcaagattaa aaaaattccc 120

atcccatgta ttaatatcca gatactacct agaggacaca gaataaactt taaagataca 180

aaaaactatc ttcatcaaga 200

<210> 672
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 672

ccacttaaca atgtaaaaga aatgaagatt acaaagacag gaagtccgtt tctgcttaat 60

tttattccag aggtatgttt ttttttcttc tactaaagca ttagttttag ttctatcaaa 120

tctaacactg aatacagaaa acagctttaa catcgtcatc caattaaatt gtgaaatatt 180

tatagtgtca tttcttagcc 200

<210> 673
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 673

ggctaagaaa tgacactata aatatttcac aatttaattg gatgacgatg ttaaagctgt 60

tttctgtatt cagtgttaga tttgatagaa ctaaaactaa tgctttagta gaagaaaaaa 120

aaacatacct ctggaataaa attaagcaga aacggacttc ctgtctttgt aatcttcatt 180

tcttttacat tgttaagtgg 200

<210> 674
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 674

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tatcagtaat aatctccact ttcaagaaag aaaacgtgaa gcagcctctt gagggttttg 120

gagttcttgt tcctgccaag gagcaggaaa atggtttgag gacactaggt gaagcttgat 180

tctgccctcc attattgttt 200

<210> 675
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 675

aaacaataat ggagggcaga atcaagcttc acctagtgtc ctcaaaccat tttcctgctc 60

cttggcagga acaagaactc caaaaccctc aagaggctgc ttcacgtttt ctttcttgaa 120

agtggagatt attactgata atggcaaata actcacctgt attataaaaa caaaaggcta 180

agaaatgaca ctataaatat 200

<210> 676
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 676

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tgctatgcag gcaccctctt ctcttccatg atgtttccag atcgggcctc agaagacgtg 120

tacctttaca ccacctttgt tgggggtagt cgaaacaaag aactggccaa agcttcgagg 180

taggcaggct tgctcatcac 200

<210> 677
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 677

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acaaaggtgg tgtaaaggta cacgtcttct gaggcccgat ctggaaacat catggaagag 120

aagagggtgc ctgcatagca gaatttttgc tatggtgtca atgtaaacaa ataaaaaaca 180

ataatggagg gcagaatcaa 200

<210> 678
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 678

cgaggtaggc aggcttgctc atcaccatat tccccttaa aattgtagtg tgaacttaac 60

tcaagttcta attaattttt tgtgcatatg ttcaaaatct atgatagcct tctgaaagac 120

aaagtaaaaa aagtctttac tgattaattg tggtaaaatc aatttattca taatgacgtt 180

aattgacaaa taggtcttgg 200

<210> 679
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 679

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gtaaagactt tttttacttt gtctttcaga aggctatcat agattttgaa catatgcaca 120

aaaaattaat tagaacttga gttaagttca cactacaatt ttaaggggga atatggtgat 180

gagcaagcct gcctacctcg 200

<210> 680
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 680

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actcaaaaat ctttcttgca aaatagggac gagttgaagc agatagtaac ttctgacctc 120

agacagttgc ttggaacaga aggggagcca aaatttctaa cgtaagggca caacgctatt 180

tcagtttaac agtaatcttt 200

<210> 681
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 681

aaagattact gttaaactga aatagcgttg tgcccttacg ttagaaattt tggctcccct 60

tctgttccaa gcaactgtct gaggtcagaa gttactatct gcttcaactc gtccctattt 120

tgcaagaaag atttttgagt taaaagttac aacatatcct ctactaggaa agtttccaag 180

acctatttgt caattaacgt 200

<210> 682
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 682

ctatttcagt ttaacagtaa tctttgctag aataagaaat gtaaccgctt gcctacctat 60

ggtcttttta tctgttaaac aaaattttgt ttaataacca ctagcctggt gtagtggcaa 120

aggtgtatct ccctcatcca agaggtgttg ggttctagtc tcacttgaga caaggggaac 180

attataagcg gagtaaaaaa 200

<210> 683
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 683

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tggatgaggg agatacacct ttgccactac accaggctag tggttattaa acaaaatttt 120

gtttaacaga taaaaagacc ataggtaggc aagcggttac atttcttatt ctagcaaaga 180

ttactgttaa actgaaatag 200

<210> 684
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 684

ggaacattat aagcggagta aaaaattagc cgtttaaaaa aaaaaaagtt tgtaatttga 60

agttttccat catgaactga aacagttgct aaaatgtaac aagaagttat taaagtcttg 120

aggtacatag atatatacac aatgtaaata tggcttacgg agttgtgagg ttgattgcag 180

tcactattat tggagcaaag 200

<210> 685
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 685

ctttgctcca ataatagtga ctgcaatcaa cctcacaact ccgtaagcca tatttacatt 60

gtgtatatat ctatgtacct caagacttta ataacttctt gttacatttt agcaactgtt 120

tcagttcatg atggaaaact tcaaattaca aacttttttt tttttaaacg gctaattttt 180

tactccgctt ataatgttcc 200

<210> 686
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 686

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attgaagcaa ttgagaagat ggaaaaagag ctacccggtt acttttatgc aggtaacatg 120

ttttgtcttg aaaataaaaa tggacaaatc atatgttgat gagtagaggt ggcaattttg 180

acctattata acttacagag 200

<210> 687
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 687

ctctgtaagt tataataggt caaaattgcc acctctactc atcaacatat gatttgtcca 60

tttttatttt caagacaaaa catgttacct gcataaaagt aaccgggtag ctctttttcc 120

atcttctcaa ttgcttcaat aactgaacca tagtcacgcc catacaatgg aaatgctttg 180

ctccaataat agtgactgca 200

<210> 688
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 688

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agagagttgc tgttgttggt gctggtgtca gtggttgtgc tgctgcttat aagttaaagt 120

tacatggatt gaatgtgact gtgtttgaag ctgatgggag cgttggtggg aaactaaaga 180

gcgtttcgca agatggttta 200

<210> 689
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 689

taaaccatct tgcgaaacgc tctttagttt cccaccaacg ctcccatcag cttcaaacac 60

agtcacattc aatccatgta actttaactt ataagcagca gcacaaccac tgacaccagc 120

accaacaaca gcaactctct tagcaggttt ttggttgtca actatagttg gtgaagccat 180

tgttggtttc tctgtcagtc 200

<210> 690
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 690

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tgaggcagat gttagcagtt tgattgatga tcttgggctt cgagataaac agcagtttcc 120

aatttcacag cacaagcggt acattgtaag aaatggaaaa cctgtattga taccttctaa 180

cccaattgca ctgattagca 200

<210> 691
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 691

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accgcttgtg ctgtgaaatt ggaaactgct gtttatctcg aagcccaaga tcatcaatca 120

aactgctaac atctgcctca ctctcagtca tagtattggc accctcatcc catattaaac 180

catcttgcga aacgctcttt 200

<210> 692
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 692

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cttttagagc catttttatg gaagaagact aagtcatctg acgaacccga gagtgttgga 120

ggattctttc aacgtcattt tgggaaggag gttgttgagt atctcattga tccagttgtt 180

gcgggaacaa gcggtggaga 200

<210> 693
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<212> DNA
<213> Ambrosia trifida

<400> 693

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aaatgacgtt gaaagaatcc tccaacactc tcgggttcgt cagatgactt agtcttcttc 120

cataaaaatg gctctaaaag aatttgaacc tttgactgag tggaaagaaa actgctgcta 180

atcagtgcaa ttgggttaga 200

<210> 694
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 694

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agctatggga tttagagaga aggtttggtt caatcatttc tggggcattt caatctatgg 120

tatcttccag aggtgggaaa aggaaacctt ctggaaacag caaacgtagg cgtggttcct 180

tttctttttt tggtgggatg 200

<210> 695
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 695

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tttcccacct ctggaagata ccatagattg aaatgcccca gaaatgattg aaccaaacct 120

tctctctaaa tcccatagct caggaaatgc atgacgcata gagagtgatt caggatctcc 180

accgcttgtt cccgcaacaa 200

<210> 696
<211> 200
<212> DNA
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<400> 696

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accccatgaa gttaatcttc aatcaaaggt gcttgaaatg tcctacagct gcgatgataa 120

tgcggttggt aattggtcaa tttattgtgc tccagatcaa aacaaacaat ttcagcaatc 180

ttttgatgct gtgatcatga 200

<210> 697
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 697

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ttgaccaatt accaaccgca ttatcatcgc agctgtagga catttcaagc acctttgatt 120

gaagattaac ttcatggggt ccaatctctt tgcatagtgc atcagtgagt gtctgcatcc 180

caccaaaaaa agaaaaggaa 200

<210> 698
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 698

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tccctgaacc actaccgcac ctggtcttcc ccacccattc cccatcgaac ccaatcatcc 120

aaacccccta accacctaac cacctatggt cccaccaata acaaccacaa cagacgtaca 180

acaacaacct tccgttgctc 200

<210> 699
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 699

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gttaggtggt taggggttt ggatgattgg gttcgatggg gaatgggtgg ggaagaccag 120

gtgcggtagt ggttcaggga agggaggttt gtgagagatg acatttttat tgggggaaag 180

tcttatctgg ttgatgttcc 200

<210> 700
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 700

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ccaacgactc caattctaaa cccttactgg actgtgttat tattggtgct ggaatcagtg 120

gtctctgcat tgcccaagcc ctagctacta aacatgctga cgtgtcacct gatgtggttg 180

ttacggaagc acgtgatagg 200

<210> 701
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 701

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tttagaattg gagtcgttgg taattggagg agagattgga gtgtcgttgg ctattgagca 180

acggaaggtt gttgttgtac 200

<210> 702
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 702

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atatttgtgg gaagaaggtc cgaatagttt tcaaccgtct gatccgatgc tcactatggt 120

ggtggatagt gggttgaaag atgatttggt tttaggggac cccactgcac cacggtttgt 180

attgtggggt ggtggtttga 200

<210> 703
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 703

tcaaaccacc accccacaat acaaaccgtg gtgcagtggg gtcccctaaa accaaatcat 60

ctttcaaccc actatccacc accatagtga gcatcggatc agacggttga aaactattcg 120

gaccttcttc ccacaaatat ccatcacgtt caaccgtcga tatattacct ccaaccctat 180

cacgtgcttc cgtaacaacc 200

<210> 704
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 704

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tttgatctaa tgagctttac tggaaaactc agagccggtt ttggtgctct agggatccgc 120

cctccaccac cagatcgtga ggaatctgtt gaagaatttg ttcggcgtaa ccttggtgat 180

gaagtttttg aacgcttaat 200

<210> 705
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 705

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tcacgatctg gtggtggagg gcggatccct agagcaccaa aaccggctct gagttttcca 120

gtaaagctca ttagatcaaa gaaaggcaaa tcagctggac tggaaggcac tggcttcaaa 180

ccaccacccc acaatacaaa 200

<210> 706
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 706

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catcaaaact tagtatgaaa gcagcatttg gtaaagtttg gaagctggag aagaatggtg 120

gtagcattat tggtggagca ttcaaagcaa tccaagcaaa aataagagta ccaagcctcc 180

tcgggacccg agattaccaa 200

<210> 707
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 707

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tgctccacca ataatgctac caccattctt ctccagcttc caaactttac caaatgctgc 120

tttcatacta agttttgatg ggtcgccagc ataaacacct gaacaaaatg gttctattaa 180

gcgttcaaaa acttcatcac 200

<210> 708
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 708

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ggacaagcca tgttgcccaa tgccatctca aaacgtttgg gtagcagagt gaaagtgtca 120

tggaagctaa taaatatctc aaagttggag aatagaggtt ataatctgac ttacgaaaca 180

ccaaatggat ttgcaagtct 200

<210> 709
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 709

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ttgggcaaca tggcttgtcc cttcctaaaa gatccaacag tttggccctt tggtgttggt 180

aatctcgggt cccgaggagg 200

<210> 710
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 710

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acgtggcgag tgacttgttg cgtcctcttt cgtcggaagc agcagaggct ttgtccaaat 120

tttattaccc tccagttgct gctgtatctg tttcctatcc aaaagaagcg attcgtgctg 180

accgtttgat cgatggtcaa 200

<210> 711
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 711

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agcaactgga gggtaataaa atttggacaa agcctctgct gcttccgacg aaagaggacg 120

caacaagtca ctcgccacgt aggaaggaac agtcatgaca acagttttag tttgcagact 180

tgcaaatcca tttggtgttt 200

<210> 712
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 712

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aggcgttgag actttaggta ccatctatag ctcatccctt ttccctaacc gggcgccacc 120

tggaagggtt ctcctcctta actacattgg aggggctaca aatcctggta ttttgtcgaa 180

gacggagagt gaacttgtgg 200

<210> 713
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 713

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tacctaaagt ctcaacgcct tgacttcttg gatgtaattg accaaaaccc ttaagttgac 180

catcgatcaa acggtcagca 200

<210> 714
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 714

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aaccctagag caggcgaacc gttgactttg ggggtcaaag tgtggcctcg agcaatccca 120

cagtttctaa ttggtcattt tgacattttg gatgctgcaa aatttgctct tagtgaaggt 180

ggatatagag gtatgtttct 200

<210> 715
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 715

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aaatgaccaa ttagaaactg tgggattgct cgaggccaca ctttgacccc caaagtcaac 120

ggttcgcctg ctctagggtt tatgagcatc ttccttaggt cacggtcaac tgcttccaca 180

agttcactct ccgtcttcga 200

<210> 716
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 716

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gatgcgtgga gagtgcttat gacgttgcag ccgatgtaag tacatttttg tcacgaggcg 120

tgtataagtg atactgttat gtagcacttt ggaatacttt cttgtgaggt tagtggttac 180

ctttttgtca caaggcaggt 200

<210> 717
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 717

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ataacagtat cacttataca cgcctcgtga caaaaatgta cttacatcgg ctgcaacgtc 120

ataagcactc tccacgcatc gacctaaagc cacaccagaa acatagttgc ctccaagaaa 180

catacctcta tatccacctt 200

<210> 718
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 718

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tctatcgagt ttaatgacta aaatttagta aaatataatg accaatatgg aaggtatttc 120

atgacaatta accctaaata tattaggtaa ccacaaagga gggctctctg ttgggaaagc 180

aatatcctcc ggatgcaaag 200

<210> 719
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 719

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tatttagggt taattgtcat gaaatacctt ccatattggt cattatattt tactaaattt 120

tagtcattaa actcgataga agcttggttt taaaaagcgc gaagcgcact aaagcgacga 180

ggtccaaaac cgaggcgcaa 200

<210> 720
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 720

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tcggaccaga agtagaagga tgggtgttgc tagatgatgt tttaactggt aaactttatt 120

tcttatatct tatttttttt cttatttttc aatgcaaaga gtcaaacggc gcaagtgtaa 180

tatcaggatt ggccggagaa 200

<210> 721
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 721

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aaaaaaaata agatataaga aataaagttt accagttaaa acatcatcta gcaacaccca 120

tccttctact tctggtccga ataagaatcc aaatatgcaa tcacggattc ggctgctttg 180

catccggagg atattgcttt 200

<210> 722
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 722

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gataaatttg acgaaaattc agcatggctt ttcgctttgt gtttttgaag gtgagcaagg 120

atggtgttgt ataaacttat tgttgagtaa attataacta atgacatgtt tgaataatgt 180

gttagaaaaa aatgaatctt 200

<210> 723
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 723

aagattcatt tttttctaac acattattca aacatgtcat tagttataat ttactcaaca 60

ataagtttat acaacaccat ccttgctcac cttcaaaaac acaaagcgaa aagccatgct 120

gaattttcgt caaatttatc caacctcgag cgaacaaaaa ctcttttgat ctacattctc 180

cggccaatcc tgatattaca 200

<210> 724
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 724

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ttttcatgtt agatataatc aaagtatgaa atcttatatc ctaagaatgg ttatatatgg 120

tttagtaggt taagtgtgtt ttgacaatga tgcataataa ggatttaact tggagaaacg 180

gtgacgtgga cagcttgaag 200

<210> 725
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 725

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aacacactta acctactaaa ccatatataa ccattcttag gatataagat ttcatacttt 120

gattatatct aacatgaaaa cactatcata aattgatcat attattttca attataagat 180

tcatttttt ctaacacatt 200

<210> 726
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 726

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gaagattaca aagacaggaa gtccgtttct gcttaatttt attccagagg tgagttattt 120

gccaatatca gtaataatct ccactttcaa gaaagaaaac gtgaagcagc ctcttgaggg 180

ttttggagtt cttgttcctg 200

<210> 727
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 727

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agattattac tgatattggc aaataactca cctctggaat aaaattaagc agaaacggac 120

ttcctgtctt tgtaatcttc atttctttta cattgttaag tggggcagtc atgatcacag 180

catcaaaaga ttgctagaaa 200

<210> 728
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 728

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accctcttct cttccatgat gtttccagat cgggcctcag aagacgtgta cctttacacc 120

acctttgttg ggggtagtcg aaacaaagaa ctggccaaag cttcgaggga cgagttgaag 180

cagatagtaa cttctgacct 200

<210> 729
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 729

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cgactacccc caacaaaggt ggtgtaaagg tacacgtctt ctgaggcccg atctggaaac 120

atcatggaag agaagagggt gcctagtgtc ctcaaaccat tttcctgctc cttggcagga 180

acaagaactc caaaaccctc 200

<210> 730
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 730

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ttctaactca ctattattgg agcaaagcat ttccattgta tgggcgtgac tatggttcag 120

ttattgaagc aattgagaag atggaaaaag agctacccgg ttacttttat gcaggtaacc 180

acaaaggagg gctctctgtt 200

<210> 731
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 731

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cttctcaatt gcttcaataa ctgaaccata gtcacgccca tacaatggaa atgctttgct 120

ccaataatag tgagttagaa attttggctc cccttctgtt ccaagcaact gtctgaggtc 180

agaagttact atctgcttca 200

<210> 732
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 732

taaccacaaa ggagggctct ctgttgggaa agcaatatcc tccggatgca aagcagccga 60

atccgtgatt gcatatttgg attcttattc ggaccagaag tagaaggatg ggtgttgcta 120

gatgatgttt taactggatt ggccggagaa tgtagatcaa aagagttttt gttcgctaga 180

gcgaggataa atttgacgaa 200

<210> 733
<211> 200
<212> DNA
<213> Ambrosia trifida

<400> 733

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aatccagtta aaacatcatc tagcaacacc catccttcta cttctggtcc gaataagaat 120

ccaaatatgc aatcacggat tcggctgctt tgcatccgga ggatattgct ttcccaacag 180

agagccctcc tttgtggtta 200

<210> 734
<211> 200
<212> DNA
<213> Chenopodium album

<400> 734

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gacaactaat cctagcaaca gcgctatttg tttgagtatt gtgagaggta atccactacc 120

tcagctgcag attcataagc accctctata catcgcccca atgcaacacc tgaaacatag 180

ttgccaccaa gaaacaatcc 200

<210> 735
<211> 200
<212> DNA
<213> Chenopodium album

<400> 735

ggattgtttc ttggtggcaa ctatgtttca ggtgttgcat tggggcgatg tatagagggt 60

gcttatgaat ctgcagctga ggtagtggat tacctctcac aatactcaaa caaatagcgc 120

tgttgctagg attagttgtc cgagtatttt gctaacaaga aggctacaaa gattgcagtg 180

aaaattttct tttgagggtt 200

<210> 736
<211> 200
<212> DNA
<213> Chenopodium album

<400> 736

catagttgcc accaagaaac aatcccttga acccagcatc agttagagct gcttttgcag 60

catcaagcag atcaaagtgg ccaatcaaaa attgtggaat tgcttggggc catactctca 120

cgcccaaaac ccggggatct tttgcattag gatttatgag aatgtttctc aagtccttgt 180

caactgcccc agcaagttca 200

<210> 737
<211> 200
<212> DNA
<213> Chenopodium album

<400> 737

tgaacttgct ggggcagttg acaaggactt gagaaacatt ctcataaatc ctaatgcaaa 60

agatccccgg gttttgggcg tgagagtatg gccccaagca attccacaat ttttgattgg 120

ccactttgat ctgcttgatg ctgcaaaagc agctctaact gatgctgggt tcaagggatt 180

gtttcttggt ggcaactatg 200

<210> 738
<211> 200
<212> DNA
<213> Chenopodium album

<400> 738

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acctccaatg taactcaaaa ttaaggtcct accaggtggt gctcgaccag ggaaaagcga 120

tgaactataa attgatccca aggtttcaac accctgactg cggggatgca attgcccaaa 180

tccttgaagt ttaccatcaa 200

<210> 739
<211> 200
<212> DNA
<213> Chenopodium album

<400> 739

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tgggatcaat ttatagttca tcgcttttcc ctggtcgagc accacctggt aggaccttaa 120

ttttgagtta cattggaggt tctacaaaca ctagtatatt acacaagacg caagatgaac 180

ttgctggggc agttgacaag 200

<210> 740
<211> 200
<212> DNA
<213> Chenopodium album

<400> 740

ccaaatcctt gaagtttacc atcaatcaaa cactctgatc taattgcttc actaggataa 60

gaaagtgaca cagctgcaac tggtggatag tagaactttg caagtgattc tgcagcaaca 120

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ttggtccgta cagaaaccag 200

<210> 741
<211> 200
<212> DNA
<213> Chenopodium album

<400> 741

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ctccttcgtc cactttcaga tgttgctgca gaatcacttg caaagttcta ctatccacca 120

gttgcagctg tgtcactttc ttatcctagt gaagcaatta gatcagagtg tttgattgat 180

ggtaaacttc aaggatttgg 200

<210> 742
<211> 200
<212> DNA
<213> Chenopodium album

<400> 742

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catttggcaa cttaacaata ctagaaaggg tccatgatag tttcactttg ctgccaagcc 120

tttcagaaat ggctgtaggc aacatagtga gtcctttcct gaaggatcca actgtctggc 180

ccttaggttt agggaggcgc 200

<210> 743
<211> 200
<212> DNA
<213> Chenopodium album

<400> 743

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tattgttaag ttgccaaatg gagaatataa tctgacttat gaaacaccag atggactggt 180

ttctgtacgg accaaaagtg 200

<210> 744
<211> 200
<212> DNA
<213> Chenopodium album

<400> 744

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ctggattgtt ttgagggtac caccaatgat actaccaccc ttttgttcca agatccaaac 120

tttgccaaaa gcagctttca tactcaactt ggaaggatcg ccagcataca cgcctgaaca 180

aaagggttca atcaagcgtt 200

<210> 745
<211> 200
<212> DNA
<213> Chenopodium album

<400> 745

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tgaaagctgc ttttggcaaa gtttggatct tggaacaaaa gggtggtagt atcattggtg 120

gtaccctcaa aacaatccag gaaagaaaga acaatccaaa gccacctcga gacccgcgcc 180

tccctaaacc taagggccag 200

<210> 746
<211> 200
<212> DNA
<213> Chenopodium album

<400> 746

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atcttcaaca gattcctcgt gagctggagg agaaggacgt aagccaagag caccgagtcc 120

agacctaatc ttgccaggga agctcataag gtcaaagaaa gggaggtcag tgggcttgga 180

cggtacaggc ctcaatttgc 200

<210> 747
<211> 200
<212> DNA
<213> Chenopodium album

<400> 747

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tccctggcaa gattaggtct ggactcggtg ctcttggctt acgtccttct cctccagctc 120

acgaggaatc tgttgaagat tttgtccgtc gtaatctggg ctgatgaagt atttgaacgc 180

ttgattgaac ccttttgttc 200

<210> 748
<211> 200
<212> DNA
<213> Chenopodium album

<400> 748

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ccaaacacca attcatcttt caatccactg tcaacagcca tggtgagcac tgcatcagat 120

ggctggaagc tgttaggtcc ctcttcccag atatagccat cggcctccac agtagtgatg 180

tttccaccaa ctcgatcttt 200

<210> 749
<211> 200
<212> DNA
<213> Chenopodium album

<400> 749

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ggacctaaca gcttccagcc atctgatgca gtgctcacca tggctgttga cagtggattg 120

aaagatgaat tggtgtttgg agatcctaac gcccctcgtt ttgtgttgtg gaatggcaaa 180

ttgaggcctg taccgtccaa 200

<210> 750
<211> 200
<212> DNA
<213> Chenopodium album

<400> 750

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agtattttgt agagagagct tgtgcaatgc caagaccact gattccacca cccacaatca 120

cacagtcaag tacttcagcg ccatcgattc caacagtagc agtgtttgtg ttctggtaat 180

tgactgctga atttgaggtc 200

<210> 751
<211> 200
<212> DNA
<213> Chenopodium album

<400> 751

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cgctgaagta cttgactgtg tgattgtggg tggtggaatc agtggtcttg gcattgcaca 120

agctctctct acaaaatact cctcccgctc cccaaatttc attgtcacgg aggctaaaga 180

tcgagttggt ggaaacatca 200

<210> 752
<211> 200
<212> DNA
<213> Commelina diffusa

<400> 752

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tatacaaacc acaacaatta gattgctttt tccctactat atggggttag ctatatgaat 120

cttagtttgc atttttctt atctaaaaac catttcttta gatggcccta gataagacag 180

tcacctttta ggacttcgtg 200

<210> 753
<211> 200
<212> DNA
<213> Commelina diffusa

<400> 753

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aagaaaaaat gcaaactaag attcatatag ctaaccccat atagtaggga aaaagcaatc 120

taattgttgt ggtttgtata ttcaattttt ttttctcttt atgacaatat agatttttc 180

ccccataaca caagaaaatt 200

<210> 754
<211> 200
<212> DNA
<213> Commelina diffusa

<400> 754

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caagtctcag ccaataccaa tacgtatcat gtatcgagat cggtagctac tgttatagga 120

tcgacatagt atcttggatt gacatttgct tgttggctgg ctggccaatt ttggccagag 180

aatggtagga gttggccggt 200

<210> 755
<211> 200
<212> DNA
<213> Commelina diffusa

<400> 755

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aatccaagat actatgtcga tcctataaca gtagctaccg atctcgatac atgatacgta 120

ttggtattgg ctgagacttg caaccatggt atataaccaa aaaaaaaagt cacttcacga 180

agtcctaaaa ggtgactgtc 200

<210> 756
<211> 200
<212> DNA
<213> Commelina diffusa

<400> 756

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ccaatatcga tcattatgag ctctgacacc gttgatattg tattgaaaat taaaatttct 120

attttagaaa gttaaatttt tattagttta tttatttctt gttaactaat attatcaata 180

ttgatacgta tcagatttga 200

<210> 757
<211> 200
<212> DNA
<213> Commelina diffusa

<400> 757

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aaaatttaac tttctaaaat agaaatttta attttcaata caatatcaac ggtgtcagag 120

ctcataatga tcgatattgg ctgataccaa gtgaaattga caccgttacg gtcgtaccgg 180

ccaactccta ccattctctg 200

<210> 758
<211> 200
<212> DNA
<213> Commelina diffusa

<400> 758

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cctgtgtacg actaccgaaa tctagtattg taacttttct aacaggtgca tctactatct 120

atagaacgtc tacaaacacg tacaaactgc tgtaaaggat tttttcctaa acttgttatt 180

aatatgagtc acctatagtt 200

<210> 759
<211> 200
<212> DNA
<213> Commelina diffusa

<400> 759

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cgtgtttgta gacgttctat agatagtaga tgcacctgtt agaaaagtta caatactaga 120

tttcggtagt cgtacacagg gtagaggttt agaccaggac tgcaaatctg tttcctcaaa 180

tctgatacgt atcaatattg 200

<210> 760
<211> 200
<212> DNA
<213> Commelina diffusa

<400> 760

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tagtgacacc taacttccac ctcaacgttc ttatctgtgc tagacgcact gtttgggtat 120

cttgcttctt aagagcccat tattttcata aatcattgta gacctaatac caattttata 180

caatttaccc ttagatttaa 200

<210> 761
<211> 200
<212> DNA
<213> Commelina diffusa

<400> 761

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atgggctctt aagaagcaag atacccaaac agtgcgtcta gcacagataa gaacgttgag 120

gtggaagtta ggtgtcacta ggaaagatca actccaaaca agtatgtgca aggaaaacta 180

taggtgactc atattaataa 200

<210> 762
<211> 200
<212> DNA
<213> Commelina diffusa

<400> 762

ttatacaatt tacccttaga tttaagagac tctacaatca cataacattc atgaagtttc 60

ttgccatttt aaccatcttg ttttaatgct attaataata tcttctatat tttctctatt 120

atcttgaata atggacacaa gatacataag ttttttattt ctaaccaact atactccatc 180

taacataaca aattaatttg 200

<210> 763
<211> 200
<212> DNA
<213> Commelina diffusa

<400> 763

caaattaatt tgttatgtta gatggagtat agttggttag aaataaaaaa cttatgtatc 60

ttgtgtccat tattcaagat aatagagaaa atatagaaga tattattaat agcattaaaa 120

caagatggtt aaaatggcaa gaaacttcat gaatgttatg tgattgtaga gtctcttaaa 180

tctaagggta aattgtataa 200

<210> 764
<211> 200
<212> DNA
<213> Commelina diffusa

<400> 764

ccatctaaca taacaaatta atttgttctt gtcctactat taatatttcg tttcatatat 60

tttgttttaa ctctacttca tttaaaacta aaattacatg ctggaactga ggttctaatc 120

ttaagttaac accttctgct ctctcatcat ataaaacttc tcaacaaaaa atttatgcca 180

aggaatatca ttctagatat 200

<210> 765
<211> 200
<212> DNA
<213> Commelina diffusa

<400> 765

atatctagaa tgatattcct tggcataaat tttttgttga gaagttttat atgatgagag 60

agcagaaggt gttaacttaa gattagaacc tcagttccag catgtaattt tagttttaaa 120

tgaagtagag ttaaaacaaa atatatgaaa cgaaatatta atagtaggac aagaacaaat 180

taatttgtta tgttagatgg 200

<210> 766
<211> 200
<212> DNA
<213> Commelina diffusa

<400> 766

tgccaaggaa tatcattcta gatatgccaa agtcaataga agatatgaat ttaaagaacc 60

ttggtggact cctattgtga taggagatct attgaacttt cttacttatt tttaattatg 120

tcttatatct actagaaacc atttgctttt ctaagatcta ccaaagaaca tccataggta 180

ttctatcata tgcattttct 200

<210> 767
<211> 200
<212> DNA
<213> Commelina diffusa

<400> 767

agaaaatgca tatgatagaa tacctatgga tgttctttgg tagatcttag aaaagcaaat 60

ggtttctagt agatataaga cataattaaa aataagtaag aaagttcaat agatctccta 120

tcacaatagg agtccaccaa ggttctttaa attcatatct tctattgact ttggcatatc 180

tagaatgata ttccttggca 200

<210> 768
<211> 200
<212> DNA
<213> Commelina diffusa

<400> 768

aggtattcta tcatatgcat tttctgagtc aataagaacc atatacatgt ctttgttcct 60

atttctaagc gtttgtacta attgccttga taaactgata gtggtaggta taaatccaaa 120

atgattatta gaaatattag tttcacatct tagtcgttgt tctgtcacta ttcttttcct 180

actttcatct tcctaagagc 200

<210> 769
<211> 200
<212> DNA
<213> Commelina diffusa

<400> 769

gctcttagga agatgaaagt aggaaaagaa tagtgacaga acaacgacta agatgtgaaa 60

ctaatatttc taataatcat tttggattta tacctaccac tatcagttta tcaaggcaat 120

tagtacaaac gcttagaaat aggaacaaag acatgtatat ggttcttatt gactcagaaa 180

atgcatatga tagaatacct 200

<210> 770
<211> 200
<212> DNA
<213> Commelina diffusa

<400> 770

ttcctacttt catcttccta agagcatctt ttacttcaca agtcctgatg ttttgaatat 60

aagtagttct ttttttttt aattagtgga atttacctgt aaaactatgt ctagcaaggc 120

tctctccaag tgtaacttta taatcctcat aaatcctctg atcaccattt ctagtgagaa 180

aaggaaatca atttggcccc 200

<210> 771
<211> 200
<212> DNA
<213> Commelina diffusa

<400> 771

ggggccaaat tgatttcctt ttctcactag aaatggtgat cagaggattt atgaggatta 60

taaagttaca cttggagaga gccttgctag acatagtttt acaggtaaat tccactaatt 120

aaaaaaaaaa agaactactt atattcaaaa catcaggact tgtgaagtaa aagatgctct 180

taggaagatg aaagtaggaa 200

<210> 772
<211> 200
<212> DNA
<213> Commelina diffusa

<400> 772

gagaaaagga aatcaatttg gcccctacta gaactatcct taaaagtaat taaatgacag 60

tctctctttc catatagaat aatgattacc accgtattgt acgataaagc agattctaaa 120

attttgacct ttacattatt catctcccca tacccataat caccacaagt aaacttaatt 180

ttcctactat cttttgccta 200

<210> 773
<211> 200
<212> DNA
<213> Commelina diffusa

<400> 773

taggcaaaag atagtaggaa aattaagttt acttgtggtg attatgggta tggggagatg 60

aataatgtaa aggtcaaaat tttagaatct gctttatcgt acaatacggt ggtaatcatt 120

attctatatg gaaagagaga ctgtcattta attactttta aggatagttc tagtaggggc 180

caaattgatt tccttttctc 200

<210> 774
<211> 200
<212> DNA
<213> Commelina diffusa

<400> 774

taattttcct actatctttt gcctacgtgt catggatgag taccagggga ggaggagagg 60

acaggggaaa aaggaacaaa atggaatcaa aataaaataa aatgctcatg ccaacaataa 120

tgtggctaaa atcggacgga aaactaccga tggaagtttt tgcagcattt aatgaaatgt 180

taagtgtatt tgctatttca 200

<210> 775
<211> 200
<212> DNA
<213> Commelina diffusa

<400> 775

tgaaatagca aatacactta acatttcatt aaatgctgca aaaacttcca tcggtagttt 60

tccgtccgat tttagccaca ttattgttgg catgagcatt ttattttatt ttgattccat 120

tttgttcctt tttcccctgt cctctcctcc tcccctggta ctcatccatg acacgtaggc 180

aaaagatagt aggaaaatta 200

<210> 776
<211> 200
<212> DNA
<213> Commelina diffusa

<400> 776

aatgttaagt gtatttgcta tttcaaaaaa actcaattat tttttattgt tttggcaaag 60

gtttagattt tatctgcatt taactcttat aaaacattat gaaatgatat ttgttatcga 120

ctttcttgca ctttcatgtg ctaagcgtgt cacaactgct gaatgctact atgcaggaac 180

aatatatagc tcatcccttt 200

<210> 777
<211> 200
<212> DNA
<213> Commelina diffusa

<400> 777

aaagggatga gctatatatt gttcctgcat agtagcattc agcagttgtg acacgcttag 60

cacatgaaag tgcaagaaag tcgataacaa atatcatttc ataatgtttt ataagagtta 120

aatgcagata aaatctaaac ctttgccaaa acaataaaaa ataattgagt ttttttgaaa 180

tagcaaatac acttaacatt 200

<210> 778
<211> 200
<212> DNA
<213> Commelina diffusa

<400> 778

ggaacaatat atagctcatc ccttttttcct ggccgagctc cccaagggag aatattgctt 60

cttaactaca ttggaggtgc tacaaatact ggaattgtat caaaggtgtt ggaacttgac 120

cattttcag tttttgtgaa gttgcaaaaa gttatatcct ctacgaaaac atatgcagct 180

taggctatcc ataatatata 200

<210> 779
<211> 200
<212> DNA
<213> Commelina diffusa

<400> 779

tatatattat ggatagccta agctgcatat gttttcgtag aggatataac tttttgcaac 60

ttcacaaaaa ctgaaaaatg gtcaagttcc aacacctttg atacaattcc agtatttgta 120

gcacctccaa tgtagttaag aagcaatatt ctcccttggg gagctcggcc aggaaaaagg 180

gatgagctat atattgttcc 200

<210> 780
<211> 200
<212> DNA
<213> Commelina diffusa

<400> 780

cagcttaggc tatccataat atataatcca tttttaatta gtgaaaacat atttcctagg 60

aaacctcaat taaaatgtca tccattatgt ctacaattga tactttattt tgtttgctct 120

tcttttccag acagtttttc tagcatttac accatgttgc cactaggaat attgagtttg 180

gactggtttt tccattcatt 200

<210> 781
<211> 200
<212> DNA
<213> Commelina diffusa

<400> 781

aatgaatgga aaaaccagtc caaactcaat attcctagtg gcaacatggt gtaaatgcta 60

gaaaaactgt ctggaaaaga agagcaaaca aaataaagta tcaattgtag acataatgga 120

tgacatttta attgaggttt cctaggaaat atgttttcac taattaaaaa tggattatat 180

attatggata gcctaagctg 200

<210> 782
<211> 200
<212> DNA
<213> Commelina diffusa

<400> 782

gtttggactg gtttttccat tcattggcta aaattttgtc tatttcattt aaacatggag 60

aggatgttgc aaacaccttc tagatgtttg aattatcaaa tcgttcataa agattttaag 120

tcccaactaa tatatgatgc tgatttttca agttttttt atgtgcagaa tgagagcgaa 180

ctggtagaag cagttgatcg 200

<210> 783
<211> 200
<212> DNA
<213> Commelina diffusa

<400> 783

cgatcaactg cttctaccag ttcgctctca ttctgcacat aaaaaaaact tgaaaaatca 60

gcatcatata ttagttggga cttaaaatct ttatgaacga tttgataatt caaacatcta 120

gaaggtgttt gcaacatcct ctccatgttt aaatgaaata gacaaaattt tagccaatga 180

atggaaaaac cagtccaaac 200

<210> 784
<211> 200
<212> DNA
<213> Commelina diffusa

<400> 784

gcgaactggt agaagcagtt gatcgtgacc ttagaaagat gctgataaag ccaactgctg 60

aggatcctct tcttgttggt gtaagagtat ggccacaagc tataccccag ttcctggttg 120

gtcatcttga ccatctcgag gcagctaatg aagccctcag gaaaggaggt tttggtggat 180

tttttcttgg tggcaactat 200

<210> 785
<211> 200
<212> DNA
<213> Commelina diffusa

<400> 785

atagttgcca ccaagaaaaa atccaccaaa acctcctttc ctgagggctt cattagctgc 60

ctcgagatgg tcaagatgac caaccaggaa ctggggtata gcttgtggcc atactcttac 120

accaacaaga agaggatcct cagcagttgg ctttatcagc atctttctaa ggtcacgatc 180

aactgcttct accagttcgc 200

<210> 786
<211> 200
<212> DNA
<213> Commelina diffusa

<400> 786

ccatgctcta atagcttgtc cgtcgtaatc ttgggaatga ggtttttgaa cgattgattg 60

agccattctg ttcaggtgcg cacaattcaa ttttcgctat gataagcaaa aaggtttttc 120

acatgataat taccttttgtt tttttctttt ggtgattaac atgcttttgt ttgtaatgtc 180

atatatatac tatgttttac 200

<210> 787
<211> 200
<212> DNA
<213> Commelina diffusa

<400> 787

gtaaaacata gtatatatat gacattacaa acaaaagcat gttaatcacc aaaagaaaaa 60

aacaaaggta attatcatgt gaaaaacctt tttgcttatc atagcgaaaa ttgaattgtg 120

cgcacctgaa cagaatggct caatcaatcg ttcaaaaacc tcattcccaa gattacgacg 180

gacaagctat tagagcatgg 200

<210> 788
<211> 200
<212> DNA
<213> Commelina diffusa

<400> 788

atgtcatata tatactatgt tttacctaga tatttgtttt gaatttttt ttcttctgga 60

tttttagttt tctgcgttct ttactccaaa ttgaatcagt ttgtcataac tgttatggca 120

attgttttga tcatgttttt aaaggagtct ccctgtttta tcatctagct taggagtacc 180

aaaatgagca tttatgttct 200

<210> 789
<211> 200
<212> DNA
<213> Commelina diffusa

<400> 789

agaacataaa tgctcatttt ggtactccta agctagatga taaaacaggg agactccttt 60

aaaaacatga tcaaaacaat tgccataaca gttatgacaa actgattcaa tttggagtaa 120

agaacgcaga aaactaaaaa tccagaagaa aaaaaaattc aaaacaaata tctaggtaaa 180

acatagtata tatatgacat 200

<210> 790
<211> 200
<212> DNA
<213> Commelina diffusa

<400> 790

gtaccaaaat gagcatttat gttctctaga agttatagga taagaaagac aggtgagacc 60

ttctggactg atttcaccta aaaaaatgct aaatctgcag gggtatatgc tggagatcct 120

acaaaactta gtatgaaggc agcttttggt aaagtatgga agttagaaca gactggtgga 180

agtattattg ggggcactat 200

<210> 791
<211> 200
<212> DNA
<213> Commelina diffusa

<400> 791

atagtgcccc caataatact tccaccagtc tgttctaact tccatacttt accaaaagct 60

gccttcatac taagttttgt aggatctcca gcatataccc ctgcagattt agcatttttt 120

taggtgaaat cagtccagaa ggtctcacct gtctttctta tcctataact tctagagaac 180

ataaatgctc attttggtac 200

<210> 792
<211> 200
<212> DNA
<213> Commelina diffusa

<400> 792

gtggaagtat tattgggggc actattaaga caatccaaga tcaaaagaaa aatcccaaac 60

ctcctagaga tccgtaagaa tttcatgaac caaattgggt ttccatacta cctgattgaa 120

agtaatgaag tatccttgag ttaattgttg ctatttatca gacgcctacc aacaccaaaa 180

ggacaaacag ttgcatcttt 200

<210> 793
<211> 200
<212> DNA
<213> Commelina diffusa

<400> 793

aaagatgcaa ctgtttgtcc ttttggtgtt ggtaggcgtc tgataaatag caacaattaa 60

ctcaaggata cttcattact ttcaatcagg tagtatggaa acccaatttg gttcatgaaa 120

ttcttacgga tctctaggag gtttgggatt tttcttttga tcttggattg tcttaatagt 180

gcccccaata atacttccac 200

<210> 794
<211> 200
<212> DNA
<213> Commelina diffusa

<400> 794

caaaaggaca aacagttgca tcttttagga aagggcttaa catgctacct gcagcaattt 60

cttccaggtc tttgtttttt ttcattcttt gtaataccct gtaactatct gcaggctttt 120

acaaactggt tatacttttt ttttacttta ccaagttggt tagttagtag ttatatttat 180

gtgttcatac tgaagatgag 200

<210> 795
<211> 200
<212> DNA
<213> Commelina diffusa

<400> 795

ctcatcttca gtatgaacac ataaatataa ctactaacta accaacttgg taaagtaaaa 60

aaaaagtata accagtttgt aaaagcctgc agatagttac agggtattac aaagaatgaa 120

aaaaaacaaa gacctggaag aaattgctgc aggtagcatg ttaagccctt tcctaaaaga 180

tgcaactgtt tgtccttttg 200

<210> 796
<211> 200
<212> DNA
<213> Commelina diffusa

<400> 796

tttatgtgtt catactgaag atgagcaact tctgtttttt atcataatta tatttatata 60

tttcttttgt tatctatcaa ggattatcct tcagatctaa cagttcacaa acttcactag 120

cttgtatctt ggaacatatt ttctttactt taatattttc attgacttgt atttcgtgga 180

aaaacagact gggtagcaaa 200

<210> 797
<211> 200
<212> DNA
<213> Commelina diffusa

<400> 797

tttgctaccc agtctgtttt tccacgaaat acaagtcaat gaaaatatta aagtaaagaa 60

aatatgttcc aagatacaag ctagtgaagt ttgtgaactg ttagatctga aggataatcc 120

ttgatagata acaaaagaaa tatataaata taattatgat aaaaaacaga agttgctcat 180

cttcagtatg aacacataaa 200

<210> 798
<211> 200
<212> DNA
<213> Commelina diffusa

<400> 798

gtggaaaaac agactgggta gcaaagtgaa actatcatgg aaacttgtga gcatcaggaa 60

gctggagagc caggaatatt tattgctata tgaaacatca gaaggattga cttcagtaca 120

gactagaagt gttgttctga ctgttccatc ttatattgcc agcaatctcc ttcgctctct 180

ttcagtaagc ttatgcccca 200

<210> 799
<211> 200
<212> DNA
<213> Commelina diffusa

<400> 799

tggggcataa gcttactgaa agagagcgaa ggagattgct ggcaatataa gatggaacag 60

tcagaacaac acttctagtc tgtactgaag tcaatccttc tgatgtttca tatagcaata 120

aatattcctg gctctccagc ttcctgatgc tcacaagttt ccatgatagt ttcactttgc 180

tacccagtct gtttttccac 200

<210> 800
<211> 200
<212> DNA
<213> Commelina diffusa

<400> 800

tctctttcag taagcttatg ccccacttta agcttctaca gtccctttga atatgtttat 60

ggaattctgt tataaagacc ttctcggttg ctttttctgt agttaattta tgtggatgga 120

gaatctttct agaaattgtt gacatgatac tatatatggt atctatattg tgtgacatgt 180

tattgttgac caatatatgc 200

<210> 801
<211> 200
<212> DNA
<213> Commelina diffusa

<400> 801

gcatatattg gtcaacaata acatgtcaca caatatagat accatatata gtatcatgtc 60

aacaatttct agaaagattc tccatccaca taaattaact acagaaaaag caaccgagaa 120

ggtctttata acagaattcc ataaacatat tcaaagggac tgtagaagct taaagtgggg 180

cataagctta ctgaaagaga 200

<210> 802
<211> 200
<212> DNA
<213> Commelina diffusa

<400> 802

gctatatgaa acatcagaag gattgacttc agtacagact agaagtgttg ttctgactgt 60

tccatcttat attgccagca atctccttcg ctctctttca aatgacgcag ctgatgcttt 120

gtcaaagttt tactatcctc cagttgctgc tgtttccatt tcatatccaa aggaagctat 180

taggaacgaa tgtttaatcg 200

<210> 803
<211> 200
<212> DNA
<213> Commelina diffusa

<400> 803

cgattaaaca ttcgttccta atagcttcct ttggatatga aatggaaaca gcagcaactg 60

gaggatagta aaactttgac aaagcatcag ctgcgtcatt tgaaagagag cgaaggagat 120

tgctggcaat ataagatgga acagtcagaa caacacttct agtctgtact gaagtcaatc 180

cttctgatgt ttcatatagc 200

<210> 804
<211> 200
<212> DNA
<213> Commelina diffusa

<400> 804

gctattagga acgaatgttt aatcgatggt gagcttaagg gatttggcca gttgcatcca 60

cgtagtcaag gagtagagac actcggaaca atatatagct catccctttt cctggccgag 120

ctccccaagg gagaatattg cttcttaact acattggagg tgctacaaat actggaattg 180

tatcaaagaa tgagagcgaa 200

<210> 805
<211> 200
<212> DNA
<213> Commelina diffusa

<400> 805

ttcgctctca ttctttgata caattccagt atttgtagca cctccaatgt agttaagaag 60

caatattctc ccttggggag ctcggccagg aaaagggatg agctatatat tgttccgagt 120

gtctctactc cttgactacg tggatgcaac tggccaaatc ccttaagctc accatcgatt 180

aaacattcgt tcctaatagc 200

<210> 806
<211> 200
<212> DNA
<213> Commelina diffusa

<400> 806

ttatgattaa agatatatat atccaattag tttacttcca cattgcataa tgtaccttga 60

tatatatttc ctactagcat tttttcctta aaattacgat ttttgtatga ttatcagatt 120

aacaacacta gcggcctctt ttatattgat cctagtggaa ggaggatatt cctcctaatt 180

tgttgtacta agacatcggc 200

<210> 807
<211> 200
<212> DNA
<213> Commelina diffusa

<400> 807

gccgatgtct tagtacaaca aattaggagg aatatcctcc ttccactagg atcaatataa 60

aagaggccgc tagtgttgtt aatctgataa tcatacaaaa atcgtaattt taaggaaaaa 120

atgctagtag gaaatatata tcaaggtaca ttatgcaatg tggaagtaaa ctaattggat 180

atatatatct ttaatcataa 200

<210> 808
<211> 200
<212> DNA
<213> Commelina diffusa

<400> 808

taatttgttg tactaagaca tcggctacat ttttttttt gcttatggag acatctatat 60

taatatttgt ggttcacatg attcttgttg cttaaagatt atttaatgga tggtggttgc 120

agaatgacgc agctgatgct ttgtcaaagt tttactatcc tccagttgct gctgtttcca 180

tttcatatcc aaaggaagct 200

<210> 809
<211> 200
<212> DNA
<213> Commelina diffusa

<400> 809

agcttccttt ggatatgaaa tggaaacagc agcaactgga ggatagtaaa actttgacaa 60

agcatcagct gcgtcattct gcaaccacca tccattaaat aatctttaag caacaagaat 120

catgtgaacc acaaatatta atatagatgt ctccataagc aaaaaaaaaa atgtagccga 180

tgtcttagta caacaaatta 200

<210> 810
<211> 200
<212> DNA
<213> Commelina diffusa

<400> 810

ttccatttca tatccaaagg aagctattag gaacgaatgt ttaatcgatg gtgagcttaa 60

gggatttggc cagttgcatc cacgtagtca aggagtagag acactcggta ctgttctgtc 120

ttgtttatgg ccccacacta ctcaccccaa atataatata ggttctatat gtatatgctc 180

tctggatttc catttgcaat 200

<210> 811
<211> 200
<212> DNA
<213> Commelina diffusa

<400> 811

attgcaaatg gaaatccaga gagcatatac atatagaacc tatattatat ttggggtgag 60

tagtgtgggg ccataaacaa gacagaacag taccgagtgt ctctactcct tgactacgtg 120

gatgcaactg gccaaatccc ttaagctcac catcgattaa acattcgttc ctaatagctt 180

cctttggata tgaaatggaa 200

<210> 812
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 812

aaaagtatat ttaaaatttt ttgcccacac caaaaaaaat tttaaaaaaa agaagtacat 60

atgcaatcaa tgacatgcga tttcaatccc aactttcaaa tctcaatttt taaatgctag 120

tagctataag taaataatct ccattctcct tctctataca tcttttctta ttcaacaggt 180

aatactttca tttattaatc 200

<210> 813
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 813

gattaataaa tgaaagtatt acctgttgaa taagaaaaga tgtatagaga aggagaatgg 60

agattattta cttatagcta ctagcattta aaaattgaga tttgaaagtt gggattgaaa 120

tcgcatgtca ttgattgcat atgtacttct ttttttaaa attttttttg gtgtgggcaa 180

aaaattttaa atatactttt 200

<210> 814
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 814

caggtaatac tttcatttat taatcataaa attatacata tatattttcc ctaattttta 60

ggtttcttaa tttcttttga cgtgaattga aagatgaaaa cgtgatgata gattggaaga 120

gttgaagagg ggttttgttt tggggaatct catacataac acactaaaca acatattatc 180

agttatcttg tattgattta 200

<210> 815
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 815

taaatcaata caagataact gataatatgt tgtttagtgt gttatgtatg agattcccca 60

aaacaaaacc cctcttcaac tcttccaatc tatcatcacg ttttcatctt tcaattcacg 120

tcaaaagaaa ttaagaaacc taaaaattag ggaaaatata tatgtataat tttatgatta 180

ataaatgaaa gtattacctg 200

<210> 816
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 816

ttatcagtta tcttgtattg atttaatata aaatatgagt actaaaatac cattatatgg 60

atcgtataag tttagtgaat agttcgtgct tttggttata cgacgaaatt gtagttggtt 120

tattatatcg tcttttgagt ttgcattttg gttgtaattg gatggttatt attttgtggg 180

tatatgaatt tattggaatt 200

<210> 817
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 817

aattccaata aattcatata cccacaaaat aataaccatc caattacaac caaaatgcaa 60

actcaaaaga cgatataata aaccaactac aatttcgtcg tataaccaaa agcacgaact 120

attcactaaa cttatacgat ccatataatg gtattttagt actcatattt tatattaaat 180

caatacaaga taactgataa 200

<210> 818
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 818

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gttttaaatt tgtcacctta cgataaagtt cctggctccg ccttgatagc agccttcatg 120

taaaattggt tttcataaac gttctgagtt tttataaatt ttgtaacatg tcattcttct 180

ggaaatatgc ttctcttcaa 200

<210> 819
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 819

ttgaagagaa gcatatttcc agaagaatga catgttacaa aatttataaa aactcagaac 60

gtttatgaaa accaatttta catgaaggct gctatcaagg cggagccagg aactttatcg 120

taaggtgaca aatttaaaac attatatagg tacaaaaatt ttaatatatc gatcaaattc 180

caataaattc atatacccac 200

<210> 820
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 820

cttctggaaa tatgcttctc ttcaatttaa cgcgtatatg agcgttgcat tcgcatataa 60

tcgaatgtct cgtggaaagt actaaagact tggccaacgt taggtttcat tatcatcttc 120

taggggattg tttaagtcca acataattaa gaatttacaa acagaaggaa caacgtagga 180

aaagtcataa tcaattgaat 200

<210> 821
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 821

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tggacttaaa caatccccta gaagatgata atgaaaccta acgttggcca agtctttagt 120

actttccacg agacattcga ttatatgcga atgcaacgct catatacgcg ttaaattgaa 180

gagaagcata tttccagaag 200

<210> 822
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 822

taggaaaagt cataatcaat tgaatagttt gattagtcaa tttatcagta cttaaactaa 60

gatatagtaa gatgaggttg aaaaacaact actataacat acaaacatat atggatcttc 120

cttaaataat aacaatgtta aagattactg caaaaattac agaccttcat tttcagcaat 180

gatggtatga agttgaaata 200

<210> 823
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 823

tatttcaact tcataccatc attgctgaaa atgaaggtct gtaatttttg cagtaatctt 60

taacattgtt attatttaag gaagatccat atatgtttgt atgttatagt agttgttttt 120

caacctcatc ttactatatc ttagtttaag tactgataaa ttgactaatc aaactattca 180

attgattatg acttttccta 200

<210> 824
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 824

gcaatgatgg tatgaagttg aaataatcgt ttgttgtttt caattaacat tttttcacaa 60

agggagagag ataaatatgg tgatcagctt tatatttcaa tataatgtga aaggtctgaa 120

aaaaaaattt gaccaagtgt aaaaaatatg ttttggataa ataaaagtta atttaaataa 180

tctactaaaa ttagcccctg 200

<210> 825
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 825

caggggctaa ttttagtaga ttatttaaat taacttttat ttatccaaaa catatttttt 60

acacttggtc aaatttttt ttcagacctt tcacattata ttgaaatata aagctgatca 120

ccatatttat ctctctccct ttgtgaaaaa atgttaattg aaaacaacaa acgattattt 180

caacttcata ccatcattgc 200

<210> 826
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 826

aataatctac taaaattagc ccctggttta caaatatcat ttcacttata atttattaac 60

cataatttac taatttgttc agtcaaactt tttttttat atagtttctt tatttaacgt 120

actcacaaca cattacaatc tctcatattg ggtattttta ctgctgcatt acgtgagttt 180

ttttttattg tatcatataa 200

<210> 827
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 827

ttatatgata caataaaaaa aaactcacgt aatgcagcag taaaaatacc caatatgaga 60

gattgtaatg tgttgtgagt acgttaaata aagaaactat ataaaaaaaa aagtttgact 120

gaacaaatta gtaaattatg gttaataaat tataagtgaa atgatatttg taaaccaggg 180

gctaatttta gtagattatt 200

<210> 828
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 828

agtttttttt tattgtatca tataattttt gacaaatgat ttttaataaa acaaaccttt 60

tcactcttta atggtgaggt ttcaattcca cagtttaatc aattgccgat cgatgtatat 120

atgtaatttt tagttttaat ttagtaaata caaaattatt taactagggt ataggaagag 180

tagacttgaa aatatgggtg 200

<210> 829
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 829

cacccatatt ttcaagtcta ctcttcctat accctagtta aataattttg tatttactaa 60

attaaaacta aaaattacat atatacatcg atcggcaatt gattaaactg tggaattgaa 120

acctcaccat taaagagtga aaaggtttgt tttattaaaa atcatttgtc aaaaattata 180

tgatacaata aaaaaaaact 200

<210> 830
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 830

aagagtagac ttgaaaatat gggtgataat ttcttgattc tttcaatttg agtaagttaa 60

agaaatctta actcttcaaa ttttggcctt taatttatat ctaaaggtta atttttatct 120

aaaggttaac attactataa cttggactaa ttccctccct aaaaatatat acccattttc 180

cttatctgac ttggaaaata 200

<210> 831
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 831

tattttccaa gtcagataag gaaaatgggt atatattttt agggagggaa ttagtccaag 60

ttatagtaat gttaaccttt agataaaaat taacctttag atataaatta aaggccaaaa 120

tttgaagagt taagatttct ttaacttact caaattgaaa gaatcaagaa attatcaccc 180

atattttcaa gtctactctt 200

<210> 832
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 832

ttttccttat ctgacttgga aaatagtggg gtagatcgga tctgacctaa cctgatttga 60

cccgatccga cccgaacgtt gaaaatgaaa attagtttac tagaggtggt tcacccacag 120

agaaattata ccaaaccgaa acaacccaac aatggcttct ccaacaacaa caacagatga 180

taacaaaggt agatactatt 200

<210> 833
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 833

aatagtatct acctttgtta tcatctgttg ttgttgttgg agaagccatt gttgggttgt 60

ttcggtttgg tataatttct ctgtgggtga accacctcta gtaaactaat tttcattttc 120

aacgttcggg tcggatcggg tcaaatcagg ttaggtcaga tccgatctac cccactattt 180

tccaagtcag ataaggaaaa 200

<210> 834
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 834

gatgataaca aaggtagata ctatttcttt ttcttcttaa taatcttaat atgttattat 60

tttcattgta gataatccag ttctgcattt tgttgcacag agaaagcacc tgctaagaga 120

gttgcagttg ttggcgccgg tgtcaggtca atgttactac tttcatatat ataatatatg 180

tatcttgcgt tttattttac 200

<210> 835
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 835

gtaaaataaa acgcaagata catatattat atatatgaaa gtagtaacat tgacctgaca 60

ccggcgccaa caactgcaac tctcttagca ggtgctttct ctgtgcaaca aaatgcagaa 120

ctggattatc tacaatgaaa ataataacat attaagatta ttaagaagaa aaagaaatag 180

tatctacctt tgttatcatc 200

<210> 836
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 836

atatgtatct tgcgttttat tttacttctt acttttacg gcgaaatacc caaatatccc 60

accccacgga aggttatgta gactttggtt ttctttgacc tctatagttg gttacttgtt 120

atggccatga aatgaaagat tcctaaacga gggtggagat tactctagcg tttgttttga 180

ccccaaaaat gctttgcttg 200

<210> 837
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 837

caagcaaagc atttttgggg tcaaaacaaa cgctagagta atctccaccc tcgtttagga 60

atctttcatt tcatggccat aacaagtaac caactataga ggtcaaagaa aaccaaagtc 120

tacataacct tccgtggggt gggatatttg ggtatttcgc cgtaaaaagt aagaagtaaa 180

ataaaacgca agatacatat 200

<210> 838
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 838

tttgacccca aaaatgcttt gcttgtcgga ggacatgacc aatatttaga ggactaggat 60

tagcttagcg gaatatggta gataagtaat ccttttaggg gtactttata taattgtgga 120

ttttcatgca tgataccttt cttatatgct catatgactt ctttgcactg ttaggggtag 180

tgttcttgac agctaggtga 200

<210> 839
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 839

tcacctagct gtcaagaaca ctacccctaa cagtgcaaag aagtcatatg agcatataag 60

aaaggtatca tgcatgaaaa tccacaatta tataaagtac ccctaaaagg attacttatc 120

taccatattc cgctaagcta atcctagtcc tctaaatatt ggtcatgtcc tccgacaagc 180

aaagcatttt tggggtcaaa 200

<210> 840
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 840

ggtagtgttc ttgacagcta ggtgacctat gctactttgt ttcataggtc gattagggat 60

tagcacccac tatttttta ttttttgga aggcattaaa ttatattata ttaaagataa 120

aaattgccag taagaaacta gccgatacat agactgtcca atccaaaata gaaaactagc 180

acccacatta tatgtgggcc 200

<210> 841
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 841

ggcccacata taatgtgggt gctagttttc tattttggat tggacagtct atgtatcggc 60

tagtttctta ctggcaattt ttatctttaa tataatataa tttaatgcct tccaaaaaaa 120

taaaaaaata gtgggtgcta atccctaatc gacctatgaa acaaagtagc ataggtcacc 180

tagctgtcaa gaacactacc 200

<210> 842
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 842

ctagcaccca cattatatgt gggcccaccg gtccctagga cttcctagta aatatctact 60

tatatctatg tatgcatggc tgataccaac cctatttgct tttgtgactt gctgggagga 120

ggttaaaggg gttcttgact tcttgcacat gccactcgta ctaccaaacc tatttgcttc 180

tatgacttgc tgggaggaga 200

<210> 843
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 843

tctcctccca gcaagtcata gaagcaaata ggtttggtag tacgagtggc atgtgcaaga 60

agtcaagaac ccctttaacc tcctcccagc aagtcacaaa agcaaatagg gttggtatca 120

gccatgcata catagatata agtagatatt tactaggaag tcctagggac cggtgggccc 180

acatataatg tgggtgctag 200

<210> 844
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 844

gcttctatga cttgctggga ggagacatgc ccctattaat tgttgctctc atcccacatg 60

tttggttcta tgcagacggt tatatttatt atgtttttat gatgtttaat atgttcaaat 120

gtcttattta ctatgtattg tccaatttgg gctatgtggt atgtcttcta cccttgtcta 180

ctcttaatgt agtaagagta 200

<210> 845
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 845

tactcttact acattaagag tagacaaggg tagaagacat accacatagc ccaaattgga 60

caatacatag taaataagac atttgaacat attaaacatc ataaaaacat aataaatata 120

accgtctgca tagaaccaaa catgtgggat gagagcaaca attaataggg gcatgtctcc 180

tcccagcaag tcatagaagc 200

<210> 846
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 846

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tctttacact ctcctacttt tgccttttt ggatggaggt ccttatggaa gtagtctttc 120

tgcctctggg tagaggcaag actgtctaca tctcacatcc cccatacccc tcgcacaaga 180

attgggtcat gttgtttttg 200

<210> 847
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 847

caaaaacaac atgacccaat tcttgtgcga ggggtatggg ggatgtgaga tgtagacagt 60

cttgcctcta cccagaggca gaaagactac ttccataagg acctccatcc aaaaaaggca 120

aaagtaggag agtgtaaaga gttcagtaac catacctgtc gatcgagtat gatgatactc 180

ttactacatt aagagtagac 200

<210> 848
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 848

caagaattgg gtcatgttgt ttttgtggac tcgaacccag atggtaagat gtttccaatg 60

gggtttacat attgttgatt ttttgctgct agtataatat attattttga ttattcgtta 120

catgtatgaa atttgtaaat aaattggtga gtatagtagt ctagtgcaac atggtgattg 180

attgatatct agaggaatgg 200

<210> 849
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 849

ccattcctct agatatcaat caatcaccat gttgcactag actactatac tcaccaattt 60

atttacaaat ttcatacatg taacgaataa tcaaaataat atattatact agcagcaaaa 120

aatcaacaat atgtaaaccc cattggaaac atcttaccat ctgggttcga gtccacaaaa 180

acaacatgac ccaattcttg 200

<210> 850
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 850

gattgattga tatctagagg aatggctggc catattatgt tgaatcatga atgaatgact 60

tggtttgttt cagtgggctt gcggctgcat ataagttaaa actacatgga ataaatgtca 120

ctgtttttga agccggtgag atagccggag ggaaactaag aagcatttca caaaacggtt 180

taatatggga cgagggtgcc 200

<210> 851
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 851

ggcaccctcg tcccatatta aaccgttttg tgaaatgctt cttagtttcc ctccggctat 60

ctcaccggct tcaaaaacag tgacatttat tccatgtagt tttaacttat atgcagccgc 120

aagcccactg aaacaaacca agtcattcat tcatgattca acataatatg gccagccatt 180

cctctagata tcaatcaatc 200

<210> 852
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 852

cggtttaata tgggacgagg gtgccaatac tatggtatga tatcgatgtt agtttgctta 60

tagacataac ttctttttt ttatttttt taaaaaaaag ttgttttgat gctcttttac 120

tccgtatttg tagactgaga gtgaaccgga tgtcagcagg ttgcttgatg atcttggtct 180

tcgagataaa caacagtctg 200

<210> 853
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 853

cagactgttg tttatctcga agaccaagat catcaagcaa cctgctgaca tccggttcac 60

tctcagtcta caaatacgga gtaaaagagc atcaaaacaa ctttttttta aaaaaaataa 120

aaaaaaagaa gttatgtcta taagcaaact aacatcgata tcataccata gtattggcac 180

cctcgtccca tattaaaccg 200

<210> 854
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 854

ggtcttcgag ataaacaaca gtctgtaagt tatatgctgt tggatatgga acatcatgct 60

tcctgtagcg tgcgtttgaa aatttatttt tgcaaatttc tcccattgta tactaaatga 120

catagtataa agaagaggaa attgtttata tcacttttat tcgtgttcaa atacggaagg 180

ctaaatccac tttatgtggc 200

<210> 855
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 855

gccacataaa gtggatttag ccttccgtat ttgaacacga ataaaagtga tataaacaat 60

ttcctcttct ttatactatg tcatttagta tacaatggga gaaatttgca aaaataaatt 120

ttcaaacgca cgctacagga agcatgatgt tccatatcca acagcatata acttacagac 180

tgttgtttat ctcgaagacc 200

<210> 856
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 856

gaaggctaaa tccactttat gtggctgtgg ctgtaataat ttgtcggcta tggttcttgt 60

ttcatttatt tgttgtggtc atgtgtgtat atgtttacca tggctgaata ctacactata 120

tttccttttg cagccacttt cccaacataa gcgatatatt gtaagaaatg gaaaaccggt 180

actggtatga tatctcaaca 200

<210> 857
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 857

tgttgagata tcataccagt accggttttc catttcttac aatatatcgc ttatgttggg 60

aaagtggctg caaaaggaaa tatagtgtag tattcagcca tggtaaacat atacacacat 120

gaccacaaca aataaatgaa acaagaacca tagccgacaa attattacag ccacagccac 180

ataaagtgga tttagccttc 200

<210> 858
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 858

ccggtactgg tatgatatct caacaccatg ctgaaaacta atcctctgtt atatatgaac 60

aaaagagttt aaaagtataa gatgaaactt tacttcaaaa tcattagtag aaattgtgtt 120

ttattggact caaattctca acctcataaa cacttgtcat ttgtttacaa agttttgtaa 180

actgattttt tgttttctgg 200

<210> 859
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 859

ccagaaaaca aaaaatcagt ttacaaaact ttgtaaacaa atgacaagtg tttatgaggt 60

tgagaatttg agtccaataa aacacaattt ctactaatga ttttgaagta aagtttcatc 120

ttatactttt aaactctttt gttcatatat aacagaggat tagttttcag catggtgttg 180

agatatcata ccagtaccgg 200

<210> 860
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 860

tgtaaactga ttttttgttt tctgggaatg taaataatta tggcagttta ttgtactgtt 60

ctttcgtata gatagttata aactcaaaac acaaaaaaaa ggttgtttta ttacgcggtc 120

gtagctgtca caattttagt tttcttttgt acttgccaag ttcatgtctt atatactgaa 180

tgtaacttgg ccaaactcat 200

<210> 861
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 861

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actaaaattg tgacagctac gaccgcgtaa taaaacaacc ttttttttgt gttttgagtt 120

tataactatc tatacgaaag aacagtacaa taaactgcca taattattta cattcccaga 180

aaacaaaaaa tcagtttaca 200

<210> 862
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 862

ctgaatgtaa cttggccaaa ctcatgtctg caggtacctt ctaaccccat tgcactgatc 60

caaagcagtt tgctttccac tcaatcaaag gttcgttagt agctcttgga tgtttaagtc 120

tgaagtattt aaaccgtatc caatcctttc attctcatat tatctaccca atgattctca 180

atgtcaaggc tcacaaaaac 200

<210> 863
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 863

gtttttgtga gccttgacat tgagaatcat tgggtagata atatgagaat gaaaggattg 60

gatacggttt aaatacttca gacttaaaca tccaagagct actaacgaac ctttgattga 120

gtggaaagca aactgctttg gatcagtgca atggggttag aaggtacctg cagacatgag 180

tttggccaag ttacattcag 200

<210> 864
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 864

tctcaatgtc aaggctcaca aaaactcttt atcctactat gctttaaatt tttaataaaa 60

atgatgcatg ccctttttcgg ttgtatttaa aaaattatcc aaaattgcaa tggtaatata 120

ttagcacacg agttacacaa attctttctc attttgatat cagatgatct caaaattata 180

atttgtactt cattacattg 200

<210> 865
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 865

caatgtaatg aagtacaaat tataattttg agatcatctg atatcaaaat gagaaagaat 60

ttgtgtaact cgtgtgctaa tatattacca ttgcaatttt ggataatttt ttaaatacaa 120

ccgaaaaggg catgcatcat ttttattaaa aatttaaagc atagtaggat aaagagtttt 180

tgtgagcctt gacattgaga 200

<210> 866
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 866

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gcttcaaata cttttggagc cattttcatg gaagaagaag aactcgtctg atacacaaga 120

aaggtaatat atagccttct ttcctatcta tctgttaaac cctattaggg actaactttt 180

ttatttattt actattttgt 200

<210> 867
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 867

acaaaatagt aaataaataa aaaagttagt ccctaatagg gtttaacaga tagataggaa 60

agaaggctat atattacctt tcttgtgtat cagacgagtt cttcttcttc catgaaaatg 120

gctccaaaag tatttgaagc tgtaattttt gcaacaaacc ccataatcac atacacaatg 180

taatgaagta caaattataa 200

<210> 868
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 868

ctttttttatt tatttactat tttgtagtgt tggtgcattc tttcaacgtc attttgggaa 60

ggaggtatat gtatattgta acctttatct tcagttcagt tattctggta tacgtctttc 120

ttttgatatt aaggggtcca agttttcatt tgtgtggtac ttcaaaattt gtccatgctt 180

tccgctatct taattttcta 200

<210> 869
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 869

tagaaaatta agatagcgga aagcatggac aaattttgaa gtaccacaca aatgaaaact 60

tggacccctt aatatcaaaa gaaagacgta taccagaata actgaactga agataaaggt 120

tacaatatac atatacctcc ttcccaaaat gacgttgaaa gaatgcacca acactacaaa 180

atagtaaata aataaaaaag 200

<210> 870
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 870

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ctcttccatg tccatgctgc ttcatattag tgtggggata tacataactg atttcaatta 180

acaaacaaaa acactttaaa 200

<210> 871
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 871

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gcagcatgga catggaagag ttactcacag aaagtgactc cggatctcca ccgcttgttc 120

cagcaacaac aggattaatg agatactcaa caaccttaca tatgtacatt aagtatagaa 180

aattaagata gcggaaagca 200

<210> 872
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 872

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tgctaagtgc tacctctcat cattaacctt ctaggttaat ctatcaacct catattttcc 120

atacagatgc gctattcatt ccctgaatta tgggatttag agagaaggta tgtaagctac 180

aaaataatat gtaattcatt 200

<210> 873
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 873

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aatgaatagc gcatctgtat ggaaaatatg aggttgatag attaacctag aaggttaatg 120

atgagaggta gcacttagca ggggtgtcaa agaatgcatt tgcacctcca catgctttaa 180

agtgtttttg tttgttaatt 200

<210> 874
<211> 200
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<213> Conyza canadensis

<400> 874

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ctactatgat tttttattat aatatttata aagcttggat tcttaaattc aatgtgatga 120

cggtcaaatc aacatgcagg tttggttcac tcatttctgg ggcatttcag tctatgatct 180

cttctcgagg cagaaaaaag 200

<210> 875
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 875

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cctgcatgtt gatttgaccg tcatcacatt gaatttaaga atccaagctt tataaatatt 120

ataataaaaa atcatagtag attgcatggg aacaaataat caagctcact taaagaatga 180

attacatatt attttgtagc 200

<210> 876
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 876

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attggaatct aatatattct ttaaagtaga aacaggccat caatatattg cttactttgt 180

tcttttaaat ctttattctc 200

<210> 877
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 877

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agaatatatt agattccaat aaatgaatct tgacagacaa aatcaccaat cttacctgca 120

ttccacctaa aaatgaaaag gagccacgcc tgcgcttgct gcttcctgaa ggactctttt 180

ttctgcctcg agaagagatc 200

<210> 878
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 878

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tggacaacat gaacttaatc ttcaatccaa ggtgcttgaa atgtcctata gctgtgatga 120

taacactact gggagttggt cgatctattg tgctccagat cagaacaaac aattaaatca 180

gcaacctttt gatgctgtga 200

<210> 879
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 879

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accaactccc agtagtgtta tcatcacagc tataggacat ttcaagcacc ttggattgaa 120

gattaagttc atgttgtcca acttctttgc tcagtgcatt tgtaagtgtc tgcatgagaa 180

taaagattta aaagaacaaa 200

<210> 880
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 880

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gacattgaca taaatttggt taatgttttg cattttgaca agactagttt gtctcagcaa 120

ctttttttg tgctatcttg gtggatctgg attcatcaaa tattcaaatc tgtggacaaa 180

atatggaaat tcttattctc 200

<210> 881
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 881

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caagatagca caaaaaaaag ttgctgagac aaactagtct tgtcaaaatg caaaacatta 120

accaaattta tgtcaatgtc accgtaagat aacacaacta tactcacagt catgatcaca 180

gcatcaaaag gttgctgatt 200

<210> 882
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 882

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catttgtttt aatgcttatt agtttgtaag tgcaattaga acgtaattaa cacagtacat 120

gctcccgaat taggccccac ttggcaatgt gaaagaaatg aagattacaa agacaggaag 180

tccgttcctg ctcaatttta 200

<210> 883
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 883

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gtggggccta attcgggagc atgtactgtg ttaattacgt tctaattgca cttacaaact 120

aataagcatt aaaacaaatg ggtgtataaa caataattct cctatttctg aaatagagaa 180

taagaatttc catattttgt 200

<210> 884
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 884

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tcatatggaa ttcgtgcaga acccccttagt tttagctctt ttgaaattta aacaataatc 120

tttaccatgg ggagatatcc tttaaaggaa tattttctgg tttttataat gcagcttagt 180

tatatgccag tttcagtcat 200

<210> 885
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 885

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ggatatctcc ccatggtaaa gattattgtt taaatttcaa aagagctaaa actaaggggt 120

tctgcacgaa ttccatatga tagaactcac acggtacaat aacatacctc aggtataaaa 180

ttgagcagga acggacttcc 200

<210> 886
<211> 200
<212> DNA
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<400> 886

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ccttgaggg atttggaatg cttgttcctg ccaaggagca ggaaaatggt ttgaagacgt 120

taggtaaagc ttgcctgtgt attatctttt ttttttttt ccttttcatt tttttttctt 180

ttttttttct ttattgtcta 200

<210> 887
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 887

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cattccaaat ccctcaaggg gccgcttcac attctctttc ttgaatgtag agattatgac 180

tgaaactggc atataactaa 200

<210> 888
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 888

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ttgttggggg aagtcgaaac aaagaactgg ccaatgcttc gaggtaggct tgatcattgc 180

aataatttct gctcaatatt 200

<210> 889
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<212> DNA
<213> Conyza canadensis

<400> 889

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gtttcgactt cccccaacaa aggtggtata aagatacaag tcttcagggg cacgatctgg 120

aaacatcatg gaagaaaaga gagtgcctgc ataacagaat tttcaataat aattatagac 180

aataaagaaa aaaaaaagaa 200

<210> 890
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 890

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aatatcaatc tattatttat gatgattatg atgagtaagt aataatttag tttggaaact 180

ttttggagg aaaggagaaa 200

<210> 891
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 891

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ataaataata gattgatatt cctataggga atggtcaaga agattctctt atgaagtttt 120

tagagacagc cattatacaa ctacttcctc aatacttgag taaatttgaa gctaaaatat 180

tgagcagaaa ttattgcaat 200

<210> 892
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 892

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gacataactc aagtataatt cttgcaataa tatatatttt ctgtaaatac agggatgagt 120

tgaagcagat agtaacttct gacctcagac agttgcttgg agcagaggga gagccacaat 180

ttttgacgta aggacacatt 200

<210> 893
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 893

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agaagttact atctgcttca actcatccct gtatttacag aaaatatata ttattgcaag 120

aattatactt gagttatgtc ctctcccctt aaacagcaac aagaaagctc caacatttct 180

cctttcctcc aaaaaagttt 200

<210> 894
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 894

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tagatcaaag gattgcaaga attgcattcc tgagcactat acaaacaatt acacaactta 120

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ttaacttttt tttaaaagcc 200

<210> 895
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 895

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aaaaagtcta agctgaaaat taagttgtgt aattgtttgt atagtgctca ggaatgcaat 120

tcttgcaatc ctttgatcta gataaactaa cgtttaataa aagcagcaga gctagaatgt 180

gtccttacgt caaaaattgt 200

<210> 896
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 896

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cttatgctta atttgtcttg tgttttttg ttcatgtcat acatgataat gatgtagttt 120

aattgcagtc actattactg gagcaaagca tatccattgt acgggcgtga ctatggctta 180

gttatggaag caattgagaa 200

<210> 897
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 897

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cagtaatagt gactgcaatt aaactacatc attatcatgt atgacatgaa caaaaaaaca 120

caagacaaat taagcataag ctacttgtac attgtaaaag tatctgtgaa cctcgggctt 180

ttaaaaaaaa gttaaatttc 200

<210> 898
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 898

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gtaaaccttt ttgtgtttga aataaagtag atatatacat atctatactc ccttataaag 120

agtattagat ttcttaaaat taagcatttt ttttcttcct aaaatacccc tacttataca 180

taaaaccttt atatatcatc 200

<210> 899
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 899

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attttaagaa atctaatact ctttataagg gagtatagat atgtatatat ctactttatt 120

tcaaacacaa aaaggtttac ccgcataaaa gtaaccaggt agctctcttt ccatcttctc 180

aattgcttcc ataactaagc 200

<210> 900
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 900

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atcgaccttt tatcaccctt cgccaccgcc ctcctccacc gcctctctcg atctccacca 120

ccgtcttcca tcacctttta gccgctacaa cgcgcgggca ttatgctcgt tttaaaaaag 180

caagttaaaa aggatagtag 200

<210> 901
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 901

ctactatcct ttttaacttg ctttttttaaa acgagcataa tgcccgcgcg ttgtagcggc 60

taaaaggtga tggaagacgg tggtggagat cgagagaggc ggtggaggag ggcggtggcg 120

aagggtgata aaaggtcgat gagagcgtgt aatgattaga gacaatgtgg gaaaggatga 180

tatataaagg ttttatgtat 200

<210> 902
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 902

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aggtaaccac aaaggaggac ttgcagttgg aaaagcaata tcctctggat gcgaagcagc 120

cgaatctgtg atttcatatt tggattcata ttccgatgag aagcgttgct agatgttgtg 180

gtaatactat ttatgataca 200

<210> 903
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 903

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aatatgaaat cacagattcg gctgcttcgc atccagagga tattgctttt ccaactgcaa 120

gtcctccttt gtggttacct aatagatttg tcctcattta gtcattctta tcaacctact 180

atccttttta acttgctttt 200

<210> 904
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 904

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gaagttttct ttccatcggg attggataaa tatggcgaaa aaatagtgtg gctttttccg 180

gtgtctttga atgtagtcga 200

<210> 905
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 905

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cccgatggaa agaaaacttc ttgagatgta cacgtacctg aaaagtcttg cactttgaat 120

aataattaag aaaatgcagg attatatggt tcaggctcag aatttcattc atttttgtat 180

cataaatagt attaccacaa 200

<210> 906
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 906

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taatggatca aagtgttgta gaaattgatc gttccggatg atgttaaaca ttgcaaaatg 120

ttgtaacaaa acatggggct cgggttttgc ttaatttgca tctgtaacaa aggctcgcca 180

tttttgggta tacttttaac 200

<210> 907
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<212> DNA
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<400> 907

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agccccatgt tttgttacaa cattttgcaa tgtttaacat catccggaac gatcaatttc 120

tacaacactt tgatccatta ttattgcatt ataaaagtaa ctaaagctta gtccttcgac 180

tacattcaaa gacaccggaa 200

<210> 908
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<212> DNA
<213> Conyza canadensis

<400> 908

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ttgaattagt tgtactttta ttataaatag ttaggggatg aacttttgat atagaatata 120

caaattttct attcaagtta attatagccg ttagaaaaat ccctaaataa aagccaatca 180

ggttttaggt ttttttttt 200

<210> 909
<211> 200
<212> DNA
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<400> 909

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taacttgaat agaaaatttg tatattctat atcaaaagtt catcccctaa ctatttataa 120

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aagtataccc aaaaatggcg 200

<210> 910
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<212> DNA
<213> Conyza canadensis

<400> 910

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cttgatggtg agccattttt gctcgttata gcggtctaaa tagattttac ctgtgaccgg 120

tgttatccat tcacatggtc acctccaaaa tatgcttaag gacatattcg aacttgaaat 180

cttttgtgag gaaacatata 200

<210> 911
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 911

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gaccatgtga atggataaca ccggtcacag gtaaaatcta tttagaccgc tataacgagc 120

aaaaatggct caccatcaag gaataaccct taaaataatg gaaaactttt caagaaaaaa 180

aaaaaaccta aaacctgatt 200

<210> 912
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 912

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tgtgcattaa atagttgtac acttaccata aaaatcaggg gtgagctttt gatatgaaaa 120

agtacaactt ttttatgtac tataagtgaa accctaaggg ctttatttaa cattttccaa 180

ttctttatca ctagataaac 200

<210> 913
<211> 200
<212> DNA
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<400> 913

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gtacataaaa aagttgtact ttttcatatc aaaagctcac ccctgatttt tatggtaagt 120

gtacaactat ttaatgcaca cccattgagc tttgtttagc aaaacccgaa agaattatat 180

gtttcctcac aaaagatttc 200

<210> 914
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<212> DNA
<213> Conyza canadensis

<400> 914

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taggtgtctt actcacttag actagaccca aaagttgact cgctttgcga gcccaagtca 120

gagtaggtaa gtctctcttt gggtcactag agtatttttc ttaaggagtt tcatcctttt 180

agagacatcc ccaatcaatg 200

<210> 915
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 915

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aaagagagac ttacctactc tgacttgggc tcgcaaagcg agtcaacttt tgggtctagt 120

ctaagtgagt aagacaccta tgtttaggaa aaaaaaagaa gctaaccatc atcaagttta 180

tctagtgata aagaattgga 200

<210> 916
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 916

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tagtattatt atccctgtta tatattctta caagaggttt tagattaaaa cattttaggt 120

aatattttag gagtggttag aaaagggttg atcggagagg atgtaaaata ttgttacgca 180

aggggtcaga gtggaaagat 200

<210> 917
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 917

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ctaaccactc ctaaaatatt acctaaaatg ttttaatcta aaacctcttg taagaatata 120

taacagggat aataatacta aattattaac caaccaaaac actagggtgg aggtccattg 180

attggggatg tctctaaaag 200

<210> 918
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 918

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ctcgaaattc acccaagaac tttgtctttg tgctgtcgta ccttttttctt tttctttccc 120

ttttgtctgt tactactccg tattaactga cgttttaata ttgtttagct taactaaata 180

gattattgga ggattagtat 200

<210> 919
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 919

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cggagtagta acagacaaaa gggaaagaaa aagaaaaagg tacgacagca caaagacaaa 120

gttcttgggt gaatttcgag gacacaaact cctatgaaag actataccgg cctttatctt 180

tccactctga ccccttgcgt 200

<210> 920
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 920

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tccgaataaa tgaatctaaa acctatttgc ttagtcataa atcttcaaga aaagatgaat 120

tgttttgctt aattttaatc cttaaagcaa acatgaattg aactcttaat aaaaaagagc 180

taggtattta tgacggttat 200

<210> 921
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 921

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gattaaaatt aagcaaaaca attcatcttt tcttgaagat ttatgactaa gcaaataggt 120

tttagattca tttattcgga tcttgattca ccttcaatta atgactaaac aacaaatact 180

aatcctccaa taatctattt 200

<210> 922
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 922

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cgagtctatc caaatcatca ccccattatg ctgtcggtgc ttttaggaca aaatcattag 120

tgttaagttc agtcttttaa aaccgttata aagctacaaa tattagattc atcttctcta 180

cagagaggtg tatcttacat 200

<210> 923
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 923

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ttaaaagact gaacttaaca ctaatgattt tgtcctaaaa gcaccgacag cataatgggg 120

tgatgatttg gatagactcg ggatatgcag acaaagagct taattaaagc agccaataac 180

cgtcataaat acctagctct 200

<210> 924
<211> 200
<212> DNA
<213> Conyza canadensis

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tcttattttg gtaatttttt cgaacttttt cactagtcgc ttctaagatt gtatataatg 120

agattcgaac ttgagacacc caattaagga tttgtgcctc gtaaatacat gagctgaagt 180

taaagccaaa tcactctttt 200

<210> 925
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 925

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ggtgtctcaa gttcgaatct cattatatac aatcttagaa gcgactagtg aaaaagttcg 120

aaaaaattac caaaataaga aaaaattcat ctgtttatcc gttttaagtg taagaatgta 180

agatacacct ctctgtagag 200

<210> 926
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 926

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tataaaattt tacacgttat agttgttcaa ttatttatag tcgtcattaa catctgtttg 120

agaagttcat caatttccag tacactggta atcacttaaa aataattgga gtcgtctgta 180

gtccccctc atatgtgagt 200

<210> 927
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 927

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ctggaaattg atgaacttct caaacagatg ttaatgacga ctataaataa ttgaacaact 120

ataacgtgta aaattttata atgaatgatg aatatgctac taggtattag aagtgaaaag 180

agtgatttgg ctttaacttc 200

<210> 928
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 928

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ctacatttat tgatttatac attatttcat atagcatttt ctgcagatac gatttgttat 120

gtagcaacat agacccatgt tcagtccaaa catactagta caattttgga gcaatgcaat 180

aatgagtatc taaagtttca 200

<210> 929
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 929

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acatgggtct atgttgctac ataacaaatc gtatctgcag aaaatgctat atgaaataat 120

gtataaatca ataaatgtag ttaaagatct atgggtcctc ttgaatttaa aaagtactca 180

catatgaggg gggactacag 200

<210> 930
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 930

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ttttaacaat cagtttgttc ctggtacatt ggcaccaact cgtctgagcc ttcagcgcgt 120

tggccagcaa gtagtttcgg tttggtggtc actgtcgagc aattgggcac gttaagtatt 180

ttttttacat tttttatttc 200

<210> 931
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 931

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ccgaaactac ttgctggcca acgcgctgaa ggctcagacg agttggtgcc aatgtaccag 120

gaacaaactg attgttaaaa aacgtctagt gtctaagtaa ttgattattc tcacatgaaa 180

ctttagatac tcattattgc 200

<210> 932
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 932

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aaaagaagta catatgcaat caatgacatg cgatttcaat cccaactttc aaatctcaat 120

ttttaaatgc tagtagctat aagtaaataa tctccattct ccttctctat acatcttttc 180

ttattcaaca ggtaatactt 200

<210> 933
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 933

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atagctacta gcatttaaaa attgagattt gaaagttggg attgaaatcg catgtcattg 120

attgcatatg tacttctttt tttttaaatt ttttttggt gtgggcaaaa aattttaaat 180

atacttttaa ataaaaaaat 200

<210> 934
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 934

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tccctaattt ttaggtttct taatttcttt tgacgtgaat tgaaagatga aaacgtgatg 120

atagattgga agagccgaag aggggttttg ttttggggaa tctcacacat aacacactaa 180

acaacatatt atcagttatc 200

<210> 935
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 935

gataactgat aatatgttgt ttagtgtgtt atgtgtgaga ttccccaaaa caaaacccct 60

cttcggctct tccaatctat catcacgttt tcatctttca attcacgtca aaagaaatta 120

agaaacctaa aaattaggga aaatatatat gtataatttt atgattaata aatgaaagta 180

ttacctgttg aataagaaaa 200

<210> 936
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 936

actaaacaac atattatcag ttatcttgta ttgatttaat ataaaatatg agtactaaaa 60

taccattata tggatcgtat aagtttagtg aatagttcgt gcttttggtt atacgacgaa 120

attgtagttg atttattata tcgtcttttg agtttgcatt ttggttgtaa ttggatggtt 180

attattttgt gggtatatga 200

<210> 937
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<212> DNA
<213> Conyza canadensis

<400> 937

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tataataaat caactacaat ttcgtcgtat aaccaaaagc acgaactatt cactaaactt 120

atacgatcca tataatggta ttttagtact catattttat attaaatcaa tacaagataa 180

ctgataatat gttgtttagt 200

<210> 938
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 938

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gtacctatat aatgttttaa atttgtcacc ttacgataaa gttcctggct ctgccttgat 120

agcagccttc atgtaaaatt ggttttcata aacgttctga gtttttataa attttgtaac 180

atgtcattct tctggaaata 200

<210> 939
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 939

tatttccaga agaatgacat gttacaaaat ttataaaaac tcagaacgtt tatgaaaacc 60

aattttacat gaaggctgct atcaaggcag agccaggaac tttatcgtaa ggtgacaaat 120

ttaaaacatt atataggtac aaaaatttta atatatcgat caaattccaa taaattcata 180

tacccacaaa ataataacca 200

<210> 940
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 940

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cattcgcata taatcgaatg tctcgtggaa agtactaaag acttggccaa cgttaggttt 120

cattatcatc ttctggggga ttgtttaagt ccaacataat taagaatttt caaacagaag 180

gaacaacata ggaaaagtca 200

<210> 941
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 941

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tcccccagaa gatgataatg aaacctaacg ttggccaagt ctttagtact ttccacgaga 120

cattcgatta tatgcgaatg caacgctcat atacgcgtta aattgaagag aagcatattt 180

ccagaagaat gacatgttac 200

<210> 942
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 942

agaaggaaca acataggaaa agtcataatc aactgaatag tttgattagt caatttatca 60

gtacttaaac taagatatag taagatgagg ttgaaaaaca actactataa catacaaaca 120

tatatggatc ttccttaaat aataacaatg ttaaagatta ctgcaaaaat tacagacctt 180

cattttcagc aatgatggta 200

<210> 943
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 943

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atttaaggaa gatccatata tgtttgtatg ttatagtagt tgtttttcaa cctcatctta 120

ctatatctta gtttaagtac tgataaattg actaatcaaa ctattcagtt gattatgact 180

tttcctatgt tgttccttct 200

<210> 944
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 944

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catttttca caaagggaga gagataacta tggtgatcag ctttatattt caatataatg 120

tgaaaggtct gagaaaaaaa tttgaccaag tgtaaaaaat gtgttttgga taaataaaag 180

ttaatttaaa taatctacta 200

<210> 945
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 945

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tttttttctc agacctttca cattatattg aaatataaag ctgatcacca tagttatctc 120

tctccctttg tgaaaaaatg ttaattgaaa acaacaaacg attatttcaa cttcatacca 180

tcattgctga aaatgaaggt 200

<210> 946
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 946

aaaagttaat ttaaataatc tactaaaatt agcccctggt ttacaaatat catttcactt 60

ataatttatt aaccataatt tactaatttg ttcagtcaaa ctttttttt ttatatagtt 120

tctttattta acgtactcac aacacattac aatctctcat gttgggtatt tttactgctg 180

cattacgtga gttttttttt 200

<210> 947
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 947

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gtgagtacgt taaataaaga aactatataa aaaaaaaaag tttgactgaa caaattagta 120

aattatggtt aataaattat aagtgaaatg atatttgtaa accaggggct aattttagta 180

gattatttaa attaactttt 200

<210> 948
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 948

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taaaacaaac cttttcactc tttaatggtg aggtttcaac tccacagttt aatcaattgc 120

cgatcgatgt atatatgtaa tttttagttt tgatttagta aatacagaat tatttaacta 180

gggtatagga agagtagaag 200

<210> 949
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 949

cttctactct tcctataccc tagttaaata attctgtatt tactaaatca aaactaaaaa 60

ttacatatat acatcgatcg gcaattgatt aaactgtgga gttgaaacct caccattaaa 120

gagtgaaaag gtttgtttta ttaaaaatca tctgtcaaaa attatatgat acaataaaaa 180

aaaactcacg taatgcagca 200

<210> 950
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 950

aactagggta taggaagagt agaagacttg aaaatatggg tgataatttc ttgattcttt 60

caatttgagt aagttaaaag aaatcttaac tcttcaaatt ttagcattta atttttatct 120

aaaggttaag attaccataa tttggactaa tcccctccct aaaaatatat acccattttc 180

cttatttgac ttggaaaata 200

<210> 951
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 951

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ttatggtaat cttaaccttt agataaaaat taaatgctaa aatttgaaga gttaagattt 120

cttttaactt actcaaattg aaagaatcaa gaaattatca cccatatttt caagtcttct 180

actcttccta taccctagtt 200

<210> 952
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 952

ttttccttat ttgacttgga aaatagtggg gtagatcgga tctgacctaa cctgatttga 60

cccgatccga cccgaacgtt gaaaatgaaa attagtttac tagaggtggt tcacccacag 120

agaagttata ccaaaccgaa acaacccaac aatggcttct ccaacaacaa ctacagatga 180

taacaaaggt agatactatt 200

<210> 953
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 953

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ttcggtttgg tataacttct ctgtgggtga accacctcta gtaaactaat tttcattttc 120

aacgttcggg tcggatcggg tcaaatcagg ttaggtcaga tccgatctac cccactattt 180

tccaagtcaa ataaggaaaa 200

<210> 954
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 954

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tttcattgta gataatccag ttctgcattt tgttgcacag agaaagcacc tgctaagaga 120

gttgcagttg ttggtgccgg tgtcaggtca atgttactac tttcatatat ataatatatg 180

tatcttgcgt tttattttac 200

<210> 955
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 955

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ccggcaccaa caactgcaac tctcttagca ggtgctttct ctgtgcaaca aaatgcagaa 120

ctggattatc tacaatgaaa ataataacat attaagatta ttaagaagaa aaagaaatag 180

tatctacctt tgttatcatc 200

<210> 956
<211> 200
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<213> Conyza canadensis

<400> 956

atatgtatct tgcgttttat tttacttctt acttttacg gcgaaatacc caaatatccc 60

accccacgga aggttatgta gactttggtt ttctttgacc tctatagttg gttacttgtt 120

atggccatga aatgaaagat tcctaaacga gggtggagat tactctagcg tttgttttga 180

ccccaaaaat gctttgcttg 200

<210> 957
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 957

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atctttcatt tcatggccat aacaagtaac caactataga ggtcaaagaa aaccaaagtc 120

tacataacct tccgtggggt gggatatttg ggtatttcgc cgtaaaaagt aagaagtaaa 180

ataaaacgca agatacatat 200

<210> 958
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 958

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tagcttagcg gaatatggta gataagtaat ccttttaggg gtactttata taattgtgga 120

ttgtcatgca tgataccttt cttatatgct catatgactt ctttgcactg ttaggggtag 180

tgttctcgac agctaggtga 200

<210> 959
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 959

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aaaggtatca tgcatgacaa tccacaatta tataaagtac ccctaaaagg attacttatc 120

taccatattc cgctaagcta atcctagtcc tccaaatatt ggtcatgtcc tccgacaagc 180

aaagcatttt tggggtcaaa 200

<210> 960
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 960

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tagcacccac tatttttta ttttttggaa ggcattaaat tatattatat taaagataaa 120

aattgccagt aagaaactag ccgatacata gactgtccaa tccaaaatag aaaactagca 180

cccacattat atgtgggccc 200

<210> 961
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 961

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ctagtttctt actggcaatt tttatcttta atataatata atttaatgcc ttccaaaaaa 120

taaaaaaata gtgggtgcta atccctaatc gacctatgaa acaaagtagc ataggtcacc 180

tagctgtcga gaacactacc 200

<210> 962
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<212> DNA
<213> Conyza canadensis

<400> 962

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atatctatgt atgcatggct gataccaacc ctatttgctt ttgtgacttg ctgggaggag 120

gttaaagggg ttcttgactt cttgcacatg ccactcgtac taccaaacct atttgcttct 180

atgacttgct gggaggagac 200

<210> 963
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<212> DNA
<213> Conyza canadensis

<400> 963

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aagtcaagaa ccccttaac ctcctcccag caagtcacaa aagcaaatag ggttggtatc 120

agccatgcat acatagatat aagtagatat ttactaggaa gtcctaggga ccggtgggcc 180

cacatataat gtgggtgcta 200

<210> 964
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 964

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ttggttctat gcagacggtt atatttatta tgtttttatg atgtttaata tgttcaaatg 120

tcttatttac tatgtattgt ccaatttggg ctatgtggta tgtcttctac ccttgtctac 180

tcttaatgta gtaagagtat 200

<210> 965
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<212> DNA
<213> Conyza canadensis

<400> 965

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acaatacata gtaaataaga catttgaaca tattaaacat cataaaaaca taataaatat 120

aaccgtctgc atagaaccaa acatgtggga tgagagcaac aattaatagg ggcatgtctc 180

ctcccagcaa gtcatagaag 200

<210> 966
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<212> DNA
<213> Conyza canadensis

<400> 966

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ctttacactc tcctactttt gccttttttg gatggaggtc cttatggaag tagtctttct 120

gcctctgggt agaggcaaga ctgtctacat ctcacatccc ccataccct cgcacaagaa 180

ttgggtcatg ttgtttttgt 200

<210> 967
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 967

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tcttgcctct acccagaggc agaaagacta cttccataag gacctccatc caaaaaaggc 120

aaaagtagga gagtgtaaag agttcagtaa ccatacctgt cgaccgagta tcatgatact 180

cttactacat taagagtaga 200

<210> 968
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 968

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ggtttacata ttgttgattt tttgctgcta gtataatata ttattttgat tattcgttac 120

atgtatgaaa tttgtaaata aattggtgag tatagtagtc tagtgcaaca tggtgattga 180

ttgatatcta gaggaatggc 200

<210> 969
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<212> DNA
<213> Conyza canadensis

<400> 969

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tatttacaaa tttcatacat gtaacgaata atcaaaataa tatattatac tagcagcaaa 120

aaatcaacaa tatgtaaacc ccattggaaa catcttacca tctgggttcg agtccacaaa 180

aacaacatga cccaattctt 200

<210> 970
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 970

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ggtttgtttc agtgggcttg cggctgcata taagttaaaa ctacatggaa taaatgtcac 120

tgtttttgaa gccggtgaga tagccggagg gaaactaaga agcatttcac aaaacggttt 180

aatatgggac gagggtgcca 200

<210> 971
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 971

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tctcaccggc ttcaaaaaca gtgacattta ttccatgtag ttttaactta tatgcagccg 120

caagcccact gaaacaaacc aagtcattca ttcatgattc aacataatat ggccggccat 180

tcctctagat atcaatcaat 200

<210> 972
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 972

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agatatagac ataacttact tctttttttt tatttttttt aaaaaaaagt tgttttgatg 120

ctcttttact ccgtatttgt agactgagag tgaaccggat gtcagcaggt tgcttgatga 180

tcttggtctt cgagataaac 200

<210> 973
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<212> DNA
<213> Conyza canadensis

<400> 973

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acaaatacgg agtaaaagag catcaaaaca actttttttt aaaaaaaata aaaaaaaaga 120

agtaagttat gtctatatct ataagcaaac taacatcgat atcataccat agtattggca 180

ccctcgtccc atattaaacc 200

<210> 974
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 974

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catcatgctt cctgtagcgt gcgtttgaaa atttatttttt gcaaatttct cccattgtat 120

actaaatgac atagtataaa gaagaggaaa ttgtttatat cacttttatt cgtgttcaaa 180

tacggaaggc taaatccact 200

<210> 975
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 975

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tttatactat gtcatttagt atacaatggg agaaatttgc aaaaataaat tttcaaacgc 120

acgctacagg aagcatgatg ttccatatcc aacagcatat aacttacaga ctgttgttta 180

tctcgaagac caagatcatc 200

<210> 976
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 976

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ggttcttgtt tcatttattt gttgtggtca tgtgtgtata tgtttaccat ggctgaatac 120

tacactatat ttccttttgc agccactttc ccaacataag cgatatattg taagaaatgg 180

aaaaccggta ctggtatgat 200

<210> 977
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 977

atcataccag taccggtttt ccatttctta caatatatcg cttatgttgg gaaagtggct 60

gcaaaaggaa atatagtgta gtattcagcc atggtaaaca tatacacaca tgaccacaac 120

aaataaatga aacaagaacc atagccgaca aattattaca gccacagcca cataaagtgg 180

atttagcctt ccgtatttga 200

<210> 978
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<212> DNA
<213> Conyza canadensis

<400> 978

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tatatgaaca aaagagttta aaagtataag atgaaacttt acttcaaaat cattagtaga 120

aattgtgttt tattggactc aaattctcaa cctcataaac acttgtcatt tgtttacaaa 180

gttttgtaaa ctgattttgg 200

<210> 979
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<212> DNA
<213> Conyza canadensis

<400> 979

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gagtccaata aaacacaatt tctactaatg attttgaagt aaagtttcat cttatacttt 120

taaactcttt tgttcatata taacagagga ttagttttca gcatggtgtt gagatatcat 180

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<210> 980
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 980

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gtactgttct ttcgtataga tagttataaa ctcaaaacac aaaaaaaaag gttgttttat 120

tacgcggtcg tagctgtcac aattttagtt ttcttttgta cttgccaagt tcatgtctta 180

tatactgaat gtaacttggc 200

<210> 981
<211> 200
<212> DNA
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<400> 981

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gtgacagcta cgaccgcgta ataaaacaac ctttttttt gtgttttgag tttataacta 120

tctatacgaa agaacagtac aataaactgc cataattatt tacattccca gaaaaccaaa 180

atcagtttac aaaactttgt 200

<210> 982
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 982

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gcactgatcc aaagcagttt gctttccact caatcaaagg ttcgttagta gctcttggat 120

gtttaagtct gaagtattta aaccgtatcc aatcctttca ttctcatatt atctacccaa 180

tgattctcaa tgtcaaggct 200

<210> 983
<211> 200
<212> DNA
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<400> 983

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taaatacttc agacttaaac atccaagagc tactaacgaa cctttgattg agtggaaagc 120

aaactgcttt ggatcagtgc aatggggtta gaaggtacct gcagacatga gtttggccaa 180

gttacattca gtatataaga 200

<210> 984
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 984

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ttaataaaaa tgatgcatgc ccttttcggt tgtatttaaa aaattatcca aaattgcaat 120

ggtaatatat tagcacacga gttacacaaa ttctttctca ttttgatatc agatgatctc 180

aaaattataa tttgtacttc 200

<210> 985
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 985

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tcgtgtgcta atatattacc attgcaattt tggataattt tttaaataca accgaaaagg 120

gcatgcatca tttttattaa aaatttaaag catagtagga taaagagttt ttgtgagcct 180

tgacattgag aatcattggg 200

<210> 986
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 986

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aaaattacag cttcaaatac ttttggagcc attttcatgg aagaagaaga actcgtctga 120

tacacaagaa aggtaatata tagccttctt tcctatctat ctgttaaacc ctattaggga 180

ctaacttttt atttatttac 200

<210> 987
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<212> DNA
<213> Conyza canadensis

<400> 987

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tatattacct ttcttgtgta tcagacgagt tcttcttctt ccatgaaaat ggctccaaaa 120

gtatttgaag ctgtaatttt tgcaacaaac cccataatca catacacaat gtaatgaagt 180

acaaattata attttgagat 200

<210> 988
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 988

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tttgggaagg aggtatatgt atattgtaac ctttatcttc agttcagtta ttctggtata 120

cgtctttctt ttgatattaa ggggtccaag ttttcatttg tgtggtactt caaaatttgt 180

ccatgctttc cgctatctta 200

<210> 989
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<212> DNA
<213> Conyza canadensis

<400> 989

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ttaatatcaa aagaaagacg tataccagaa taactgaact gaagataaag gttacaatat 120

acatatacct ccttcccaaa atgacgttga aagaatgcac caacactaca aaatagtaaa 180

taaataaaaa gttagtccct 200

<210> 990
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 990

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gagtatctca ttaatcctgt tgttgctgga acaagcggtg gagatccgga gtcactttct 120

gtgagtaact cttccatgtc catgctgctt catattagtg tggggatata cataactgat 180

ttcaattaac aaacaaaaac 200

<210> 991
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<212> DNA
<213> Conyza canadensis

<400> 991

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gacatggaag agttactcac agaaagtgac tccggatctc caccgcttgt tccagcaaca 120

acaggattaa tgagatactc aacaacctta catatgtaca ttaagtatag aaaattaaga 180

tagcggaaag catggacaaa 200

<210> 992
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<212> DNA
<213> Conyza canadensis

<400> 992

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gacacccctg ctaagtgcta cctctcatca ttaaccttct aggttaatct atcaacctca 120

tattttccat acagatgcgc tattcattcc ctgaattatg ggatttagag agaaggtatg 180

taagctacaa aataatatgt 200

<210> 993
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<212> DNA
<213> Conyza canadensis

<400> 993

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gcgcatctgt atggaaaata tgaggttgat agattaacct agaaggttaa tgatgagagg 120

tagcacttag caggggtgtc aaagaatgca tttgcacctc cacatgcttt aaagtgtttt 180

tgtttgttaa ttgaaatcag 200

<210> 994
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<400> 994

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catgcaatct actatgattt tttattataa tatttataaa gcttggattc ttaaattcaa 120

tgtgatgatg gtcaaatcaa catgcaggtt tggttcactc atttctgggg catttcagtc 180

tatgatctct tctcgaggca 200

<210> 995
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<400> 995

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ttgatttgac catcatcaca ttgaatttaa gaatccaagc tttataaata ttataataaa 120

aaatcatagt agattgcatg ggaacaaata atcaagctca cttaaagaat gaattacata 180

ttattttgta gcttacatac 200

<210> 996
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<212> DNA
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<400> 996

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cgtggctcct tttcattttt aggtggaatg caggtaagat tggtgatttt gtctgtcaag 120

attcatttat tggaatctaa tatattcttt aaagtagaaa caggccatca atatattgct 180

tactttgttc ttttaaatct 200

<210> 997
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<212> DNA
<213> Conyza canadensis

<400> 997

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ttagattcca ataaatgaat cttgacagac aaaatcacca atcttacctg cattccacct 120

aaaaatgaaa aggagccacg cctgcgcttg ctgcttcctg aaggactctt ttttctgcct 180

cgagaagaga tcatagactg 200

<210> 998
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 998

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aaagaagttg gacaacatga acttaatctt caatccaagg tgcttgaaat gtcctatagc 120

tgtgatgata acactactgg gaattggtcg atctattgtg ctccagatca gaacaaacaa 180

ttaaatcagc aacctttga 200

<210> 999
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<212> DNA
<213> Conyza canadensis

<400> 999

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ccagtagtgt tatcatcaca gctataggac atttcaagca ccttggattg aagattaagt 120

tcatgttgtc caacttcttt gctcagtgca tttgtaagtg tctgcatgag aataaagatt 180

taaaagaaca aagtaagcaa 200

<210> 1000
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1000

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cttacggtga cattgacata aatttggtta atgttttgca ttttgacaag actagtttgt 120

ctcagcaact ttttttgtg ctatcttggt ggatctggat tcatcaaata ttcaaatctg 180

tggacaaaat atggaaattc 200

<210> 1001
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1001

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cacaaaaaaa agttgctgag acaaactagt cttgtcaaaa tgcaaaacat taaccaaatt 120

tatgtcaatg tcaccgtaag ataacacaac tatactcaca gtcatgatca cagcatcaaa 180

aggttgctga tttaattgtt 200

<210> 1002
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1002

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tatacaccca tttgttttaa tgcttattag tttgtaagtg caattagaac gtaattaaca 120

cagtacatgc tcccgaatta ggccccactt ggcaatgtga aagaaatgaa gattacaaag 180

acaggaagtc tgttcctgct 200

<210> 1003
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1003

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taattcggga gcatgtactg tgttaattac gttctaattg cacttacaaa ctaataagca 120

ttaaaacaaa tgggtgtata aacaataatt ctcctatttc tgaaatagag aataagaatt 180

tccatatttt gtccacagat 200

<210> 1004
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1004

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gagttctatc atatggaatt cgtgcagaac cccttagttt tagctctttt gaaatttaaa 120

caataatctt taccatgggg agatatcctt taaaggaata ttttctggtt tttataatgc 180

agcttagtta tatgccagtt 200

<210> 1005
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1005

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ccccatggta aagattattg tttaaatttc aaaagagcta aaactaaggg gttctgcacg 120

aattccatat gatagaactc acacggtaca ataacatacc tcaggtataa aattgagcag 180

gaacagactt cctgtctttg 200

<210> 1006
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1006

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gaagcggccc cttgagggat ttggaatgct tgttcctgcc aaggagcagg aaaatggttt 120

gaagacgtta ggtaaagctt gcctgtgtat tatctttttt ttttttttcc ttttcatttt 180

tttttcattt ttttttcttt 200

<210> 1007
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1007

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aagctttacc taacgtcttc aaaccatttt cctgctcctt ggcaggaaca agcattccaa 120

atccctcaag gggccgcttc acattctctt tcttgaatgt agagattatg actgaaactg 180

gcatataact aagctgcatt 200

<210> 1008
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1008

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aggcactctc ttttcttcca tgatgtttcc agatcgtgcc cctgaagact tgtatcttta 120

taccaccttt gttgggggaa gtcgaaacaa agaactggcc aatgcttcga ggtaggcttg 180

atcattgcaa taatttctgc 200

<210> 1009
<211> 200
<212> DNA
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<400> 1009

gcagaaatta ttgcaatgat caagcctacc tcgaagcatt ggccagttct ttgtttcgac 60

ttcccccaac aaaggtggta taaagataca agtcttcagg ggcacgatct ggaaacatca 120

tggaagaaaa gagagtgcct gcataacaga attttcaata ataattatag acaataaaga 180

aaaaaaaatg aaaaaaaaat 200

<210> 1010
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1010

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ggaagtagtt gtataatggc tgtctctaaa aacttcataa gagaatcttc ttgaccattc 120

cctataggaa tatcaatcta ttatttatga tgattatgat gagtaagtaa taatttagtt 180

tggaaacttt tttggaggaa 200

<210> 1011
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1011

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tagattgata ttcctatagg gaatggtcaa gaagattctc ttatgaagtt tttagagaca 120

gccattatac aactacttcc tcaatacttg agtaaatttg aagctaaaat attgagcaga 180

aattattgca atgatcaagc 200

<210> 1012
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1012

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ggggagagga cataactcaa gtataattct tgcaataata tatattttct gtaaatacag 120

ggatgagttg aagcagatag taacttctga cctcagacag ttgcttggag cagagggaga 180

gccacaattt ttgacgtaag 200

<210> 1013
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1013

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ctatctgctt caactcatcc ctgtatttac agaaaatata tattattgca agaattatac 120

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ccaaaaaagt ttccaaacta 200

<210> 1014
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1014

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agtttatcta gatcaaagga ttgcaagaat tgcattcctg agcactatac aaacaattac 120

acaacttaat tttcagctta gacttttca ttggcgcatg ttcaccaatt gaaattgttt 180

cttgaaattt aacttttttt 200

<210> 1015
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1015

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taagctgaaa attaagttgt gtaattgttt gtatagtgct caggaatgca attcttgcaa 120

tcctttgatc tagataaact aacgtttaat aaaagcagca gagctagaat gtgtccttac 180

gtcaaaaatt gtggctctcc 200

<210> 1016
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1016

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acaagtagct tatgcttaat ttgtcttgtg ttttttttgtt catgtcatac atgataatga 120

tgtagtttaa ttgcagtcac tattactgga gcaaagcata tccattgtac gggcgtgact 180

atggcttagt tatggaagca 200

<210> 1017
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<213> Conyza canadensis

<400> 1017

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gtgactgcaa ttaaactaca tcattatcat gtatgacatg aacaaaaaaa cacaagacaa 120

attaagcata agctacttgt acattgtaca agtatctgtg aacctcgggc ttttaaaaaa 180

aagttaaatt tcaagaaaca 200

<210> 1018
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1018

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ttataaagag tattagattt cttaaaatta agcatttttt ttcttcctaa aataccccta 180

cttatacata aaacctttat 200

<210> 1019
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1019

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aaatctaata ctctttataa gggagtatag atatgtatat atctacttta tttcaaacac 120

aaaaaggttt acccgcataa aagtaaccag gtagctctct ttccatcttc tcaattgctt 180

ccataactaa gccatagtca 200

<210> 1020
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1020

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acgctctcct cgaccttcta tcaccctccg ccgccgccct ccttctccac caccgccctc 120

gatctccacc accgcctccc ttttatattg tcatcgcctt ttagccgttg caacgcgcgg 180

acactatgct cgtattaaaa 200

<210> 1021
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<212> DNA
<213> Conyza canadensis

<400> 1021

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gggaggcggt ggtggagatc gagggcggtg gtggagaagg agggcggcgg cggagggtga 120

tagaaggtcg aggagagcgt gtaatgatta gagacaatgt gggaaaggat gatatataaa 180

ggttttatgt ataagtaggg 200

<210> 1022
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1022

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ttatatattt cattattttg ttatgatttt gtactgatga atatatattt aagctaaaat 120

cattcactct agagtgtaag tcgaacgggt ccaaactgaa ctaaactatt tgtctatggt 180

agtcaaattc ttaatctttt 200

<210> 1023
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1023

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cttacactct agagtgaatg attttagctt aaatatatat tcatcagtac aaaatcataa 120

caaaataatg aaatatataa actttacgta aactttatgt ttattacgtt actactttta 180

atacgagcat agtgtccgcg 200

<210> 1024
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1024

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ttgatattag ttttatgtga ttatatatgg ttaatttaat ttttctttga tttttgatca 120

tggtcttaaa tatcattaaa ggtgaagaaa catgtgaaga gggataaatt tggagaaaga 180

atggcatcac taaaacagat 200

<210> 1025
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1025

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tttaatgata tttaagacca tgatcaaaaa tcaaagaaaa attaaattaa ccatatataa 120

tcacataaaa ctaatatcaa gtgaggtgtg caacactaca caacgatcga taccaaaaag 180

attaagaatt tgactaccat 200

<210> 1026
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1026

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gtttattaat tatatgtaat ttgtttgatt aggtatatca tatatgtata ctagttgttt 120

tgatttccaa tctatacaag taggattttg ctaaacatag ttgtaagggt tatagttaca 180

acacaataga atggtataca 200

<210> 1027
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<212> DNA
<213> Conyza canadensis

<400> 1027

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cttgtataga ttggaaatca aaacaactag tatacatata tgatatacct aatcaaacaa 120

attacatata attaataaac ttaaagaagg actaaccttg ccatagggtg acactatctg 180

ttttagtgat gccattcttt 200

<210> 1028
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1028

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aggctatgaa tagcatagtc gatgtaagta tatggttgct tagacggtgt gttaatgttg 180

atcgtacagg agtctagact 200

<210> 1029
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<212> DNA
<213> Conyza canadensis

<400> 1029

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gactatgcta ttcatagcct ttaaggatat ggataaagca aagtaaattg gtttacatga 120

cggttaaaga ttattattaa taaacagtta tatatcttta tatatatata atgtatgtat 180

accattctat tgtgttgtaa 200

<210> 1030
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1030

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cgcaaaggta aaacttcctt tatttttaag agcatagtta taatatcatt caaatttaac 120

caacaatttc tgttacatac atcgaaatag gcttgattac tcatacctat agagatgagt 180

gacatgtgtg tatgaagatt 200

<210> 1031
<211> 200
<212> DNA
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<400> 1031

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gtatgtaaca gaaattgttg gttaaatttg aatgatatta taactatgct cttaaaaata 120

aaggaagttt tacctttgcg ttcgattccc ttcttctcta aaacacaatg gtccaagtct 180

agactcctgt acgatcaaca 200

<210> 1032
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1032

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ctaatgtact agttaattat ggtttgcggt ttttttcttt gttgtatgtc cattacaaaa 120

ttacagttgg acatcttctt ggtggaattc agatgatata aaatagttaa ttttaccaaa 180

cactacatca ttggtagaga 200

<210> 1033
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<212> DNA
<213> Conyza canadensis

<400> 1033

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aagaagatgt ccaactgtaa ttttgtaatg gacatacaac aaagaaaaaa accgcaaacc 120

ataattaact agtacattag aaatgggaaa atgatatcct acaattcaat atataaatct 180

tcatacacac atgtcactca 200

<210> 1034
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1034

ccaaacacta catcattggt agagagaaat tagaacgtag ataaatggtt tgtaagtttc 60

aaaagagata ctcgtattac ataaaatgtt gtcttttgca attcgcagat ttccaattac 120

aacagatttg acacaatgtt ctattatttg ttaatccaac catgaaccac taataaaaca 180

gtacaaacat cttgaataaa 200

<210> 1035
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1035

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aacattgtgt caaatctgtt gtaattggaa atctgcgaat tgcaaaagac aacattttat 120

gtaatacgag tatctctttt gaaacttaca aaccatttat ctacgttcta atttctctct 180

accaatgatg tagtgtttgg 200

<210> 1036
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1036

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tttttgtctc catataatga ccagtaatat caaaaaacat gtattttatt cttattctag 120

cttaaaaagg ttcaaaaatg cacatccaac tttctctctt ctttccaatc atagcttttc 180

aaattaaaag catacacgta 200

<210> 1037
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1037

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catttttgaa ccttttttaag ctagaataag aataaaatac atgtttttg atattactgg 120

tcattatatg gagacaaaaa gcatacaaca atcaataatg tattggtggc tttttttttat 180

tcaagatgtt tgtactgttt 200

<210> 1038
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1038

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gggggtagtt ggttaaccat gtcacgtgct ctgcatcacc tcccatcctt ggaccccaat 120

ttgttttttg tacctactac atatttaagt aactttatgg cacctcacca aaaaccaacc 180

aaacaaacca aactcccaac 200

<210> 1039
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1039

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gtagtaggta caaaaaacaa attggggtcc aaggatggga ggtgatgcag agcacgtgac 120

atggttaacc aactaccccc cacacacata tcaatctaca tccatatgtt tcttttacgt 180

gtatgctttt aatttgaaaa 200

<210> 1040
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1040

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aacaagtact tacatctctc ccagatttct gtcattccaa ttttcttgtt tttaatcaca 120

attttgttgt tgttgtcaat gtctgtctct tttcaaacca gctaaaaaaa gaagcaaatt 180

cttgatttga ttcagctgtt 200

<210> 1041
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1041

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attgacaaca acaacaaaat tgtgattaaa aacaagaaaa ttggaatgac agaaatctgg 120

gagagatgta agtacttgtt gaggtatatg tgtgtgtgca attaagtgat gtatagttgg 180

gagtttggtt tgtttggttg 200

<210> 1042
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<212> DNA
<213> Conyza canadensis

<400> 1042

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tcacccccca agtttaaatc tttgagttaa tttcttcaaa ttcctgtgtt ttttgaaccg 120

ggtttttatc agttttgttg agtttagcaa aaaagtagag ttgggtatgt aaagattgaa 180

tctttttact gggtttatgt 200

<210> 1043
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<212> DNA
<213> Conyza canadensis

<400> 1043

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caacaaaact gataaaaacc cggttcaaaa aacacaggaa tttgaagaaa ttaactcaaa 120

gatttaaact tgggggggtga aagaatgaga aagactaacc ataaacaagt ggaacaacag 180

ctgaatcaaa tcaagaattt 200

<210> 1044
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1044

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tatatgattt tctattgatt gaagtggtta ataacaggat ttggtgagta aagtttgaat 120

ctttcgagtt atggatttat gtcatacctt ttcttgccct tcaaaataaa gtcaaagctt 180

tagttttgtg atttgacttt 200

<210> 1045
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1045

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ataaatccat aactcgaaag attcaaactt tactcaccaa atcctgttat taaccacttc 120

aatcaataga aaatcatata cccattgcaa gaaacttata aatttcaaag aaattacata 180

aacccagtaa aaagattcaa 200

<210> 1046
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1046

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tgtgatttga ctttggtatg ctgttgctcc catgaatatt ttcatgctgt ttgtaaattg 120

taatatatat tttgataaat tcaattttgt tatatttgtt tcctgataaa gttttaatgt 180

gattagtgat tacttcaatt 200

<210> 1047
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1047

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atttatcaaa atatatatta caatttacaa acagcatgaa aatattcatg ggagcaacag 120

cataccaaag tcaaatcaca aaactaaagc tttgacttta ttttgaaggg ataccaaagt 180

caaatcacaa aactaaagct 200

<210> 1048
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1048

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gtgtatagcg caagcgttgt caacgaagca cggcggcgac gtggtcgtga cagaggcgcg 120

tgagagagtt ggaggaaata tatcgacagt tgaaagagat ggttatttat gggaagaagg 180

tcctaatagc tttcaaccct 200

<210> 1049
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1049

agggttgaaa gctattagga ccttcttccc ataaataacc atctctttca actgtcgata 60

tatttcctcc aactctctca cgcgcctctg tcacgaccac gtcgccgccg tgcttcgttg 120

acaacgcttg cgctatacac agtccgctaa ttccggcgcc gacgaccacg caatcgagca 180

atggccggga actcgaatcg 200

<210> 1050
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1050

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ttgaaggatg atttggtgtt gggtgatcca actgcacctc ggtttgtgtt atgggatggt 120

gatctgaagc cggtgccttc cagtccatct gatttgccta cctttgatct gatgagcctt 180

ggtgggaaac tccgagccgg 200

<210> 1051
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1051

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gaaggcaccg gcttcagatc accatcccat aacacaaacc gaggtgcagt tggatcaccc 120

aacaccaaat catccttcaa tccactgtcc accaccatag taagcatagg atcggagggt 180

tgaaagctat taggaccttc 200

<210> 1052
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1052

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accgtgagga atctgttgaa gagtttgtcc ggcgtaatct tggtgatgaa gtttttgaac 120

gtttgattga accattttgc tcaggtgttt acgcggggga tccatcaaaa cttagtatga 180

aagcagcatt tggaaaggtt 200

<210> 1053
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1053

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gcaaaatggt tcaatcaaac gttcaaaaac ttcatcacca agattacgcc ggacaaactc 120

ttcaacagat tcctcacggt ctggaggtgg agggcggatt ccaagagccc caaaaccggc 180

tcggagtttc ccaccaaggc 200

<210> 1054
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1054

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gggagcattt aaagcaatcc aagctaaaaa taagagtacc aagcctcctc gagacccgag 120

attaccaaca ccgaagggcc aaactgttgg atcttttagg aagggacaag caatgttgcc 180

taatgccatc tcaaaagggt 200

<210> 1055
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1055

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ggcccttcgg tgttggtaat ctcgggtctc gaggaggctt ggtactctta tttttagctt 120

ggattgcttt aaatgctccc ccaacaatgc taccaccatt ttgctccagc ttccaaacct 180

ttccaaatgc tgctttcata 200

<210> 1056
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1056

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ggtatcacta aatctgagaa tagagggtat agtttgacat atcgaacacc agatggattg 120

gaaagtctgc agactaaaac tgttgtcatg actgttccat cctatgtggc tagtgacttg 180

ttgcgtcctc tttcggtgga 200

<210> 1057
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1057

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gttttagtct gcagactttc caatccatct ggtgttcgat atgtcaaact ataccctcta 120

ttctcagatt tagtgatacc tacgagctcc caggataact tcactctgct acccaaccct 180

tttgagatgg cattaggcaa 200

<210> 1058
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1058

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cggttgcagc tgtatctgtt tcctatccaa aagaggcaat tcgtgcggac cgtttgattg 120

acggtcagct caagggtttt ggtcagttgc atccacgaag tcagggcgtg gagactctag 180

gtaccatata cagttcgtct 200

<210> 1059
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1059

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aaaacccttg agctgaccgt caatcaaacg gtccgcacga attgcctctt ttggatagga 120

aacagataca gctgcaaccg ggggataata aaattttgac aaagcatctg ctgcttccac 180

cgaaagagga cgcaacaagt 200

<210> 1060
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1060

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gctcctgaac tacattggag gggctacaaa tcctggtatt ttatcaaaga cggagagtca 120

aattgttgaa gcagttgatc gcgacctacg gaagatgctg ataaatccta aagcaggaga 180

gccattgacc ttaggagtga 200

<210> 1061
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1061

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gatcaactgc ttcaacaatt tgactctccg tctttgataa aataccagga tttgtagccc 120

ctccaatgta gttcaggagc agaacccttc caggtggagc acggttaggg aaaagagacg 180

aactgtatat ggtacctaga 200

<210> 1062
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1062

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atgtttcttg gagggaacta tgtatctggt gtagctttag gtagatgtgt ggagaatgcc 180

tatgaggttg cagccgatgt 200

<210> 1063
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1063

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tagttccctc caagaaacat accccggtat ccagcaagac taagagcaca tttagcagcc 120

tctaaaatgt cataatgacc aatcagaaac tgtgggatcg ctcgaggcca cactttcact 180

cctaaggtca atggctctcc 200

<210> 1064
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1064

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acgtcactct tcggaaatta gtgtttatga ggttagtaat taaagttttg gcacaaggca 120

tgtggaagtg aaaacgcgga ctttcagtga agttagtcat ctattctcaa gcctcatggc 180

taaatgtaat tcgagttaat 200

<210> 1065
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1065

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tccgcgtttt cacttccaca tgccttgtgc caaaacttta attactaacc tcataaacac 120

taatttccga agagtgacgt attacttgta cacgccccgt gacaaaaaat tacttacatc 180

ggctgcaacc tcataggcat 200

<210> 1066
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<212> DNA
<213> Conyza canadensis

<400> 1066

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acggacatca tctagtcaat atttatttat gaggaatgga gatatatcta tactttcata 120

ttaaattaaa ctgcctattt ttttcaacta ttctaccttt gaaatgccta ttataccctc 180

ctataaacaa ctatccattc 200

<210> 1067
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1067

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aaataggcag tttaatttaa tatgaaagta tagatatatc tccattcctc ataaataaat 120

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accgtggcag tatggtgacg 200

<210> 1068
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1068

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atctatttcc caatacttat ccctaatctc taatcccctc ctctcttgct gtcgccgaaa 120

acctaataga aaaattagtt tcatttctac ggcaactacc ataaacctac aaaaagattg 180

gttttatctc tccctcacca 200

<210> 1069
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<212> DNA
<213> Conyza canadensis

<400> 1069

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aactaatttt tctattaggt tttcggcgac agcaagagag gaggggatta gagattaggg 120

ataagtattg ggaaatagat ggaagggtag tacgagaaaa tcaattaaaa gagtagaatg 180

gatagttgtt tataggaggg 200

<210> 1070
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1070

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caaatcggtt aggtgatttt ccattgaaat cgcttgtttt tattttattt tattatatct 120

aatttcctaa tttaaatcca ttgtttttgt atttttccca attttctttt tgaatttggt 180

ttgggttaat gttctgatca 200

<210> 1071
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1071

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tggatttaaa ttaggaaatt agatataata aaataaaata aaaacaagcg atttcaatgg 120

aaaatcacct aaccgatttg agagcttgta aggaatgggt gatttgtggt ggtggtggtg 180

agggagagat aaaaccaatc 200

<210> 1072
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1072

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aggtaccgac acatttaatg atcacttttt taaaggtacc gtcgcatcat gtgggtaccc 120

atctagctag ttgatgaata aattattagt attgttaaat ttaagttttt tgtttaatga 180

gtaatttaag agtatgttta 200

<210> 1073
<211> 200
<212> DNA
<213> Conyza canadensis

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tattcatcaa ctagctagat gggtacccac atgatgcgac ggtaccttta aaaaagtgat 120

cattaaatgt gtcggtacct ttttcttttg tgaatgtacg aacaaaatac atggatgatc 180

agaacattaa cccaaaccaa 200

<210> 1074
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1074

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tgtgtattga tttgtaagtt gtaaccgtct aatattataa aaagaaaaag agaaaccact 120

cctatataaa acagtcaagc ctcttgtatc attaaccggg ttgatttaag agcgaacttt 180

gatcgaattt tgggttttcg 200

<210> 1075
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1075

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gcttgactgt tttatatagg agtggtttct ctttttcttt ttataatatt agacggttac 120

aacttacaaa tcaatacaca tttacttttt ttttcttttt tttttaaccc aaatttaaac 180

atactcttaa attactcatt 200

<210> 1076
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1076

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taagaaaccc tcgttcctgt ctctctttaa tttacatctc catgtgcttt tcgatcctaa 120

ttataaatat gcggataacc gcagcattac tacccgacgc ccaaaggaag aggaaaaagt 180

cgtcgtcaaa ggcagatcaa 200

<210> 1077
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1077

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ggttatccgc atatttataa ttaggatcga aaagcacatg gagatgtaaa ttaaagagag 120

acaggaacga gggtttctta cttgggcaga tatcgatgtg gatggaaagc aaattcgaaa 180

acccaaaatt cgatcaaagt 200

<210> 1078
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1078

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atgagaggct tccagccaag tccgcatgtc gtttcaagtc tgtttccaaa cactggaatt 120

cgttcctatc cacacgtatg tttggaccac cagctccatc acatgaacaa atcctataaa 180

cttctcttac ttgaccagct 200

<210> 1079
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1079

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catacgtgtg gataggaacg aattccagtg tttggaaaca gacttgaaac gacatgcgga 120

cttggctgga agcctctcat attctattac attattatca atatatcaat atttgttgat 180

ctgcctttga cgacgacttt 200

<210> 1080
<211> 200
<212> DNA
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<400> 1080

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ctcaaccacg tacggttcca ttaccgtcgg ttttaatcga ctggaggaag ccgatcctag 120

atttaattcg cttgtaggat ggattggtat gtgtagccga tccttgatct atatttcaat 180

ttcactggct aggtgtaggc 200

<210> 1081
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1081

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atcctacaag cgaattaaat ctaggatcgg cttcctccag tcgattaaaa ccgacggtaa 120

tggaaccgta cgtggttgag gggtttgctg cataaatcct tatctacagg gggctagctg 180

gtcaagtaag agaagtttat 200

<210> 1082
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1082

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ttcaggcgtt tgaattcaac ttttcattag tcaagtaatt attctcaagt ttatatatta 120

atagtatata tacgatatca tagtataata tacaaaataa aatctatcca aaaggaataa 180

aatctttgga aaggaataaa 200

<210> 1083
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1083

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tgatatcgta tatatactat taatatataa acttgagaat aattacttga ctaatgaaaa 120

gttgaattca aacgcctgaa ttagccatca atcgatcaca ttgcttaata ataatgccta 180

cacctagcca gtgaaattga 200

<210> 1084
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1084

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ataaaatctt tctaaagatt tcggacattc actataaata gtgacagcag atgagatgga 120

aagaaaaaaa gaaaaaaagg aacaagaata ctcctttgga gagaatactt gaactctcat 180

ccctcaaatc attgttaaca 200

<210> 1085
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1085

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ccttttttc ttttttctt tccatctcat ctgctgtcac tatttatagt gaatgtccga 120

aatctttaga aagattttat tccttttgga tagattttat tcttttgga tagattttat 180

tcctttccaa agattttatt 200

<210> 1086
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1086

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ccgtatacgt aatacggtta ccagcaggga tcgccaccca aatatcctaa tcttcctcac 120

accttcccat gctaggtggc atgggaccca cataactctc tttatttata taatgatatt 180

agattacata ctccttgaac 200

<210> 1087
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1087

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gccacctagc atgggaaggt gtgaggaaga ttaggatatt tgggtggcga tccctgctgg 120

taaccgtatt acgtatacgg ttttacgcca tccaatccta tgagggtagt gattatgtta 180

acaatgattt gagggatgag 200

<210> 1088
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1088

atattagatt acatactcct tgaaccgtaa gtgttaatcg acgtatcatc atatatacac 60

taatatctat gttaaataat taataaacaa aatatgacac ataaaatttt tgcgagatat 120

ttttggcgaa gcattgcaca aaaagcagca aggctaggat atttttggcc cacaatgtac 180

cgcgatgcaa caaagattgt 200

<210> 1089
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1089

acaatctttg ttgcatcgcg gtacattgtg ggccaaaaat atcctagcct tgctgctttt 60

tgtgcaatgc ttcgccaaaa atatctcgca aaaattttat gtgtcatatt ttgtttatta 120

attatttaac atagatatta gtgtatatat gatgatacgt cgattaacac ttacggttca 180

aggagtatgt aatctaatat 200

<210> 1090
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1090

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tcatacgtca accccaacac gacttgacaa gtatttcaag tccatggccg ttctatcaat 120

ggggaacaga tatcgtagga ccattcccag aagcaccagg aaaagtgaaa tttttggtag 180

tcgcaatcga ctattttact 200

<210> 1091
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1091

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tcctacgata tctgttcccc attgatagaa cggccatgga cttgaaatac ttgtcaagtc 120

gtgttggggt tgacgtatga taggagcatg gcattggcaa ttatcacaat tgtcgacaat 180

ctttgttgca tcgcggtaca 200

<210> 1092
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1092

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tggacataaa atactcaagt tcgtatggcg caacattgta tgtcgttatg gaattccagg 120

aattatcatc agtgacaacg gaaagcaatt cgcaaataac ccatttcggg agtggtgtga 180

agagcttaaa ataagacaac 200

<210> 1093
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1093

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cgttgtcact gatgataatt cctggaattc cataacgaca tacaatgttg cgccatacga 120

acttgagtat tttatgtcca gttattgttg ccagtggctc tgcttctgcc aatttagtaa 180

aatagtcgat tgcgactacc 200

<210> 1094
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1094

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aatcttcaat ccaaggtgct tgaaatgtcc tatagctgtg atgataacac tactgggaat 120

tggtcgatct attgtgctcc agatcagaac aaacaattaa atcagcaacc ttttgatgct 180

gtgatcatga ctgccccact 200

<210> 1095
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1095

agtggggcag tcatgatcac agcatcaaaa ggttgctgat ttaattgttt gttctgatct 60

ggagcacaat agatcgacca attcccagta gtgttatcat cacagctata ggacatttca 120

agcaccttgg attgaagatt aagttcatgt tgtccaactt ctttgctcag tgcatttgta 180

agtgtctgca ttccacctaa 200

<210> 1096
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1096

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gaagtctgtt cctgctcaat tttatacctg agcttagtta tatgccagtt tcagtcataa 120

tctctacatt caagaaagag aatgtgaagc ggccccttga gggatttgga atgcttgttc 180

ctgccaagga gcaggaaaat 200

<210> 1097
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1097

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ctctttcttg aatgtagaga ttatgactga aactggcata taactaagct caggtataaa 120

attgagcagg aacagacttc ctgtctttgt aatcttcatt tctttcacat tgccaagtgg 180

ggcagtcatg atcacagcat 200

<210> 1098
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1098

tgttcctgcc aaggagcagg aaaatggttt gaagacgtta ggcactctct tttcttccat 60

gatgtttcca gatcgtgccc ctgaagactt gtatctttat accacctttg ttgggggaag 120

tcgaaacaaa gaactggcca atgcttcgag ggatgagttg aagcagatag taacttctga 180

cctcagacag ttgcttggag 200

<210> 1099
<211> 200
<212> DNA
<213> Conyza canadensis

<400> 1099

ctccaagcaa ctgtctgagg tcagaagtta ctatctgctt caactcatcc ctcgaagcat 60

tggccagttc tttgtttcga cttcccccaa caaaggtggt ataaagatac aagtcttcag 120

gggcacgatc tggaaacatc atggaagaaa agagagtgcc taacgtcttc aaaccatttt 180

cctgctcctt ggcaggaaca 200

<210> 1100
<211> 200
<212> DNA
<213> Digitaria sanguinalis

<400> 1100

acctaatgcc atctcaaaaa gcttgggtag cagagtgaaa ttatcatgga agctaataaa 60

tatctcaaag ttggagaata gaggttataa tttgacttac gaaacaccaa atggatttgc 120

aagtctgcaa actaaaactg ttgtcatgac tgttccttcc tacgtggcga gtgacttgtt 180

gcgtcctctt tcgtcggaag 200

<210> 1101
<211> 200
<212> DNA
<213> Digitaria sanguinalis

<400> 1101

cttccgacga aagaggacgc aacaagtcac tcgccacgta ggaaggaaca gtcatgacaa 60

cagttttagt ttgcagactt gcaaatccat ttggtgtttc gtaagtcaaa ttataacctc 120

tattctccaa ctttgagata tttattagct tccatgataa tttcactctg ctacccaagc 180

tttttgagat ggcattaggt 200

<210> 1102
<211> 200
<212> DNA
<213> Digitaria sanguinalis

<400> 1102

ttgttgcgtc ctctttcgtc ggaagcagct gaggctttgt ccaaatttta ttaccctcca 60

gttgcagctg tatctgtttc ctatccaaaa gaggcgattc gtgctgaccg tttgatcgat 120

ggtcaactta agggttttgg tcaattacat ccaagaagtc aaggcgttga gactttaggt 180

accatctata gttcatccct 200

<210> 1103
<211> 200
<212> DNA
<213> Digitaria sanguinalis

<400> 1103

agggatgaac tatagatggt acctaaagtc tcaacgcctt gacttcttgg atgtaattga 60

ccaaaaccct taagttgacc atcgatcaaa cggtcagcac gaatcgcctc ttttggatag 120

gaaacagata cagctgcaac tggagggtaa taaaatttgg acaaagcctc agctgcttcc 180

gacgaaagag gacgcaacaa 200

<210> 1104
<211> 200
<212> DNA
<213> Digitaria sanguinalis

<400> 1104

cttgcgtctc acaaaaggcg cgagctggcc ggcccgctac ttttgtgctt tgtcttgtct 60

ccttcaggct tcagcaatgg acaaacatcc ccctcaagta aagcttaata gaaatcgatt 120

ttgatgaacg aataaccatc attaacggca tcatggccat cgcttcgatg ggatcagttg 180

cttgcagagc cggccaaagt 200

<210> 1105
<211> 200
<212> DNA
<213> Digitaria sanguinalis

<400> 1105

actttggccg gctctgcaag caactgatcc catcgaagcg atggccatga tgccgttaat 60

gatggttatt cgttcatcaa aatcgatttc tattaagctt tacttgaggg ggatgtttgt 120

ccattgctga agcctgaagg agacaagaca aagcacaaaa gtagcgggcc ggccagctcg 180

cgccttttgt gagacgcaag 200

<210> 1106
<211> 200
<212> DNA
<213> Digitaria sanguinalis

<400> 1106

agttgcttgc agagccggcc aaagtgggca cgtgagagcc acgaggatac gcgagatgac 60

gacgaccatg gaggtggttt cgaactttcg atcgccgatt tttattgcgt cagtttcaca 120

gccagagatg cttggcctag tacggctgac gatgagcgtt tgtttagctc atctgaagga 180

atgtgttttg cctgttgcca 200

<210> 1107
<211> 200
<212> DNA
<213> Digitaria sanguinalis

<400> 1107

tggcaacagg caaaacacat tccttcagat gagctaaaca aacgctcatc gtcagccgta 60

ctaggccaag catctctggc tgtgaaactg acgcaataaa aatcggcgat cgaaagttcg 120

aaaccacctc catggtcgtc gtcatctcgc gtatcctcgt ggctctcacg tgcccacttt 180

ggccggctct gcaagcaact 200

<210> 1108
<211> 200
<212> DNA
<213> Digitaria sanguinalis

<400> 1108

aaggaatgtg ttttgcctgt tgccaccaag attagcgtcc ttttctttta tcgaattcgg 60

gtcaccattt ccactattaa tcaaagatat agtttctata ttttttctca ttaatccaca 120

gtacctttta tttcagtagt tattattgca tccatacttc accagtacgg cacccttttgc 180

aatctctgcc tacactccat 200

<210> 1109
<211> 200
<212> DNA
<213> Digitaria sanguinalis

<400> 1109

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actactgaaa taaaaggtac tgtggattaa tgagaaaaaa tatagaaact atatctttga 120

ttaatagtgg aaatggtgac ccgaattcga taaaagaaaa ggacgctaat cttggtggca 180

acaggcaaaa cacattcctt 200

<210> 1110
<211> 200
<212> DNA
<213> Digitaria sanguinalis

<400> 1110

tttgcaatct ctgcctacac tccattacct cgaagaatag tgcactacag atgcaataaa 60

cacccacctc accgactgct cgtaggtgca ccagtacact acatttgctg ctgcatgctg 120

gtcgccatca tccttcctgc ctgcaggaag cagcagggtg tctgggatct gcatcatgcc 180

gggcgcacaa gaggaacaga 200

<210> 1111
<211> 200
<212> DNA
<213> Digitaria sanguinalis

<400> 1111

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gcaggaagga tgatggcgac cagcatgcag cagcaaatgt agtgtactgg tgcacctacg 120

agcagtcggt gaggtgggtg tttattgcat ctgtagtgca ctattcttcg aggtaatgga 180

gtgtaggcag agattgcaaa 200

<210> 1112
<211> 200
<212> DNA
<213> Digitaria sanguinalis

<400> 1112

atgccgggcg cacaagagga acagacgtgc caataaaagg gctagcaacg caacgagggg 60

agggcccctt tttttcgtgt tacctcccgt cctgtgcatg agttgtcgtg tgtaacagac 120

gtgcttggtg ataaagcgta ggtgaagaag tggcctcccc tgtgtcccct cccttctcag 180

gaacgtttcg tcatcttttc 200

<210> 1113
<211> 200
<212> DNA
<213> Digitaria sanguinalis

<400> 1113

gaaaagatga cgaaacgttc ctgagaaggg aggggacaca ggggaggcca cttcttcacc 60

tacgctttat caccaagcac gtctgttaca cacgacaact catgcacagg acgggaggta 120

acacgaaaaa aaggggccct cccctcgttg cgttgctagc ccttttattg gcacgtctgt 180

tcctcttgtg cgcccggcat 200

<210> 1114
<211> 200
<212> DNA
<213> Digitaria sanguinalis

<400> 1114

ctcaggaacg tttcgtcatc ttttcactga aaacgggcgc gtgctaactg ccgcatctgt 60

gagttgaatg gttgattgga gagaaattag gtgtgcaatc accacttggg cggcaatcgt 120

gtgcacttac ttttggttgg gtgtcagatc aacaacaggg gtttcttggg gaaatgtttc 180

caaatgtact tctcaaaatt 200

<210> 1115
<211> 200
<212> DNA
<213> Digitaria sanguinalis

<400> 1115

aattttgaga agtacatttg gaaacatttc cccaagaaac ccctgttgtt gatctgacac 60

ccaaccaaaa gtaagtgcac acgattgccg cccaagtggt gattgcacac ctaatttctc 120

tccaatcaac cattcaactc acagatgcgg cagttagcac gcgcccgttt tcagtgaaaa 180

gatgacgaaa cgttcctgag 200

<210> 1116
<211> 200
<212> DNA
<213> Digitaria sanguinalis

<400> 1116

gtttccaaat gtacttctca aaattacttc tagtgtacac atgttgaatt tcagttcaaa 60

tttatttaca agaataataa acaaagaaga aaattggcaa acaacattca taaaaaatgg 120

aatgaaaaga gaaatgcatc cttcttttga agataaatag tcaaatgcca tgtttgtttc 180

gttcacaaac agaaaaatga 200

<210> 1117
<211> 200
<212> DNA
<213> Digitaria sanguinalis

<400> 1117

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gatgcatttc tcttttcatt ccatttttta tgaatgttgt ttgccaattt tcttctttgt 120

ttattattct tgtaaataaa tttgaactga aattcaacat gtgtacacta gaagtaattt 180

tgagaagtac atttggaaac 200

<210> 1118
<211> 200
<212> DNA
<213> Digitaria sanguinalis

<400> 1118

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ataggtctac agttgaacac caatttggaa gaaaaattca tgaggcagaa gtaaaatcga 120

ttatttcctt gagcttccgc attgcatctc ccaaaagaaa accattaaat actactagca 180

agttctagta cagtccctac 200

<210> 1119
<211> 200
<212> DNA
<213> Digitaria sanguinalis

<400> 1119

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gcggaagctc aaggaaataa tcgattttac ttctgcctca tgaatttttc ttccaaattg 120

gtgttcaact gtagacctat atatattcat ccactcttgc ggtgcaatca tgaaatcatt 180

tttctgtttg tgaacgaaac 200

<210> 1120
<211> 200
<212> DNA
<213> Digitaria sanguinalis

<400> 1120

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cactcgggtt ttttcttata tgtcgtatta gtttcatctt aagtcaaact tgtcaaaatt 120

tgaccaagtt tatacaaaag tataacaata actatactac caaacttata tggtatcaca 180

atatatttca ttagtaggga 200

<210> 1121
<211> 200
<212> DNA
<213> Digitaria sanguinalis

<400> 1121

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cttttgtata aacttggtca aattttgaca agtttgactt aagatgaaac taatacgaca 120

tataagaaaa aacccgagtg agtataagaa ggataattat gctgatgttt aattagtagg 180

gactgtacta gaacttgcta 200

<210> 1122
<211> 200
<212> DNA
<213> Digitaria sanguinalis

<400> 1122

tcacaatata tttcattagt agggactgtc tcgccggtcg gggaaattaa acgccccccg 60

atccgtcacc gtgacctgcc ctcctccccg cccgggcaga tcgggccatc gcctccatcg 120

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gagaggcatt tgctgccagt 200

<210> 1123
<211> 200
<212> DNA
<213> Digitaria sanguinalis

<400> 1123

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tcaggtacct agccgtgccc cgatggaggc gatggcccga tctgcccggg cggggaggag 120

ggcaggtcac ggtgacggat cgggggggcgt ttaatttccc cgaccggcga gacagtccct 180

actaatgaaa tatattgtga 200

<210> 1124
<211> 200
<212> DNA
<213> Digitaria sanguinalis

<400> 1124

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gtcgagaggg agggaggcgt cgctttcggc gggcgggggc gtgttccctg gctgtagccc 120

ggcggcgcgg caggcctcgc gcgggtgtca ataccggccc ggcggattag gtccccgtct 180

ttatgaccgg cgcgcgcgca 200

<210> 1125
<211> 200
<212> DNA
<213> Digitaria sanguinalis

<400> 1125

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gcgaggcctg ccgcgccgcc gggctacagc cagggaacac gcccccgccc gccgaaagcg 120

acgcctccct ccctctcgac accgccattt cgcgcgcgcg tgtcccgcgc cgggaactgg 180

cagcaaatgc ctctcgctac 200

<210> 1126
<211> 200
<212> DNA
<213> Digitaria sanguinalis

<400> 1126

cgtctttatg accggcgcgc gcgcaccctt gcggtgcccg tgcgttgacg acgctgccac 60

cgcacgtccc ccttcttcat tccatggcag ggacgacgac gctagctata gctgcacgta 120

cgcggtcgat cgagtggcta tggcttggtc tctactgcac gccatgccgc ccggcctccc 180

accacaataa ctcgtgtgcc 200

<210> 1127
<211> 200
<212> DNA
<213> Digitaria sanguinalis

<400> 1127

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tagccactcg atcgaccgcg tacgtgcagc tatagctagc gtcgtcgtcc ctgccatgga 120

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gcgcgccggt cataaagacg 200

<210> 1128
<211> 200
<212> DNA
<213> Digitaria sanguinalis

<400> 1128

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gcgtcgcgca ttgatcatca tgcgtggggg cgtcggggcg acggctcgag cgtgcgcaca 120

tgattgtgcg tgtcaggatc ccagacgcta gctacagctt gctgctggtc catccagtgc 180

cctacgtgga cgccgatcgc 200

<210> 1129
<211> 200
<212> DNA
<213> Digitaria sanguinalis

<400> 1129

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gatcctgaca cgcacaatca tgtgcgcacg ctcgagccgt cgccccgacg cccccacgca 120

tgatgatcaa tgcgcgacgc gatcagttcc accacggccc gcgccgtgcc gggccggcac 180

acgagttatt gtggtgggag 200

<210> 1130
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<212> DNA
<213> Digitaria sanguinalis

<400> 1130

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tggatggagt catggaggca ctgcggggct cacaggagat tttggtgggt ggtggacgca 120

tccgtcgcgt cgcccccggc gctcgagtgc accccgtacc aacccaacac gtccgctgtc 180

gtggagacgc cggagggcgc 200

<210> 1131
<211> 200
<212> DNA
<213> Digitaria sanguinalis

<400> 1131

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gccgggggcg acgcgacgga tgcgtccacc acccaccaaa atctcctgtg agccccgcag 120

tgcctccatg actccatcca tccgccatca tcatcacccc acacaccaac acacagcgat 180

cggcgtccac gtagggcact 200

<210> 1132
<211> 200
<212> DNA
<213> Digitaria sanguinalis

<400> 1132

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tttaaaaaaa ttataataac aaaagatgca tgctcccttc ttctttgatt aactaatcga 120

tcagctagct aactcacaca ttgtccttcc tgcaagtagc gcatgtatat ttatgctcaa 180

ctatatgggt atatactttt 200

<210> 1133
<211> 200
<212> DNA
<213> Digitaria sanguinalis

<400> 1133

aaaagtatat acccatatag ttgagcataa atatacatgc gctacttgca ggaaggacaa 60

tgtgtgagtt agctagctga tcgattagtt aatcaaagaa gaagggagca tgcatctttt 120

gttattataa ttttttaaa aaaaacacac aagagaaaat taacaatgat ttcatgcgcc 180

ctccggcgtc tccacgacag 200

<210> 1134
<211> 200
<212> DNA
<213> Digitaria sanguinalis

<400> 1134

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ccagttggtg ctgtgactat ttcatatcca aaggaagcaa ttagaaagga atgcttgatt 120

gatggggagc tccagggttt tggccagttg catccacgta gtcaaggagt tgagacatta 180

ggaacaatat acagctcatc 200

<210> 1135
<211> 200
<212> DNA
<213> Digitaria sanguinalis

<400> 1135

gatgagctgt atattgttcc taatgtctca actccttgac tacgtggatg caactggcca 60

aaaccctgga gctccccatc aatcaagcat tcctttctaa ttgcttcctt tggatatgaa 120

atagtcacag caccaactgg tggataatag aatcttgaaa gggcatctgc agcatcactt 180

gaaagtggac gcaggatgtc 200

<210> 1136
<211> 200
<212> DNA
<213> Digitaria sanguinalis

<400> 1136

cattaggaac aatatacagc tcatcactct tcccaaatcg tgctcctgct ggaagggtat 60

tacttctaaa ctatatagga ggtgctacaa acactgggat tgtctccaag agtgaaagtg 120

agctggtaga agcagttgac cgtgacctta ggaaaatgct catcaaccct agagcagtgg 180

acccttttagt ccttggtgtc 200

<210> 1137
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<213> Digitaria sanguinalis

<400> 1137

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gtcaactgct tctaccagct cactttcact cttggagaca atcccagtgt ttgtagcacc 120

tcctatatag tttagaagta ataccccttcc agcaggagca cgatttggga agagtgatga 180

gctgtatatt gttcctaatg 200

<210> 1138
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<213> Digitaria sanguinalis

<400> 1138

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aggacatctt gatcttctgg aggttgcaaa atctgccttg ggccgaggtg gctatgatgg 120

gctcttccta ggagggaatt atgtagcagg agttgccctg ggccgatgcg tggagggtgc 180

ctatgaaagc gcctcgcaaa 200

<210> 1139
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<213> Digitaria sanguinalis

<400> 1139

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aattccctcc taggaagagc ccatcatagc cacctcggcc caaggcagat tttgcaacct 120

ccagaagatc aagatgtcct accaggaact gaggtatggc ttgtggccac actcggacac 180

caaggactaa agggtccact 200

<210> 1140
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<212> DNA
<213> Digitaria sanguinalis

<400> 1140

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agtttacaag gatttttttt ttcatcttat ttcgtaaatt gtacttctga tctttttccc 180

tgttagtaat tagttagact 200

<210> 1141
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<212> DNA
<213> Digitaria sanguinalis

<400> 1141

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aaaaaaaatc cttgtaaact ttgtgccact cctggtctca cctcatctat gcaaaacaac 120

gagcagctcg acttctttca tcacttgtag gcatacttgg tcaagaagtc agatatttgc 180

gaggcgcttt cataggcacc 200

<210> 1142
<211> 200
<212> DNA
<213> Digitaria sanguinalis

<400> 1142

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gtggtgtgat ttttcattct agtatgtatt atgtcttctt ttgttgaatc caagatatga 120

atcaaaatag tggtggtatg cttttgtagg aacaatatac agctcatcac tcttcccaaa 180

tcgtgctcct gctggaaggg 200

<210> 1143
<211> 200
<212> DNA
<213> Digitaria sanguinalis

<400> 1143

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cataccacca ctattttgat tcatatcttg gattcaacaa aagaagacat aatacatact 120

agaatgaaaa atcacaccac aaaagaaaaa caataatctg tagatgttgt agcttaagac 180

tcagttgaaa gaaataccta 200

<210> 1144
<211> 200
<212> DNA
<213> Digitaria sanguinalis

<400> 1144

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actggaattg tttccaaggt tagtaattct ctgtcgaact tattgccttg agttttgtgt 120

tcatgatgtt ttgactgtaa aaagaaaatt ggcattcttt aataatcaac gtaagcagta 180

ttttaaaaag aaagttggca 200

<210> 1145
<211> 200
<212> DNA
<213> Digitaria sanguinalis

<400> 1145

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accttggaaa caattccagt gtttgtagca cctcctatat agtttagaag taacaccctt 180

ccagcaggag cacgatttgg 200

<210> 1146
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<212> DNA
<213> Digitaria sanguinalis

<400> 1146

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tgggacccgc atactattta ggcgggaccc acgcatattc agacacacta tttagagtgg 180

aacctacaat aatgttaagc 200

<210> 1147
<211> 200
<212> DNA
<213> Digitaria sanguinalis

<400> 1147

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ataataatag ccaataataa gcaatctagt tacaagttga tattgattat taaaatgcca 180

actttctttt taaaatactg 200

<210> 1148
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<212> DNA
<213> Digitaria sanguinalis

<400> 1148

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tcattctttg cagtataaaa tatatttatt tttttctatg tataaaaata atctctaact 120

ttgtatacta cattcgtttg tgatagttct aatacttttt gtactttgct ttcatttcat 180

aaatttgaaa aataagattg 200

<210> 1149
<211> 200
<212> DNA
<213> Digitaria sanguinalis

<400> 1149

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caaacgaatg tagtatacaa agttagagat tatttttata catagaaaaa aataaatata 120

ttttatactg caaagaatga aaacaattat caataatttt ttaaataacg tagacgctta 180

acattattgt aggttccact 200

<210> 1150
<211> 200
<212> DNA
<213> Digitaria sanguinalis

<400> 1150

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attaaaaatt aaaaattagt gtaacataac acgtcactcc attagctatt tctactacca 120

cttatatagt gcttaaatga ttattatgat taaaaaattt gtctaaattt aatattgcat 180

tgagtatagt aagataacaa 200

<210> 1151
<211> 200
<212> DNA
<213> Digitaria sanguinalis

<400> 1151

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tcatttaagc actatataag tggtagtaga aatagctaat ggagtgacgt gttatgttac 120

actaattttt aatttttaat agaaaaaaga tacattttgt aacgaatgta taattcaatc 180

ttatttttca aatttatgaa 200

<210> 1152
<211> 200
<212> DNA
<213> Digitaria sanguinalis

<400> 1152

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ctatatagac gcacatcgct cgtcaaccca actagtattc ctaatgatgc catctcaatt 120

gcagagtgaa agtgagctgg tagaagcagt tgatcgtgac ctcaggaaaa tgctcatcga 180

ccctagagca gtggaccctt 200

<210> 1153
<211> 200
<212> DNA
<213> Digitaria sanguinalis

<400> 1153

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ccagctcact ttcactctgc aattgagatg gcatcattag gaatactagt tgggttgacg 120

agcgatgtgc gtctatatag aagatgttaa actaaaataa tgatgtaata caaatttgtt 180

atcttactat actcaatgca 200

<210> 1154
<211> 200
<212> DNA
<213> Digitaria sanguinalis

<400> 1154

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tgttgcggga acaagcggtg gagatcctga atcactttca atgcgttatg cgtttcctga 120

gttatgggat ttagagagaa ggttcggttc aatcatttct ggggcatttc tgtcaatgtt 180

atcttccaga ggtgggaaaa 200

<210> 1155
<211> 200
<212> DNA
<213> Digitaria sanguinalis

<400> 1155

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ttctctctaa atcccataac tcaggaaacg cataacgcat tgaaagtgat tcaggatctc 120

caccgcttgt tcccgcaaca actggatcaa tgagatactc aacaacctcc ttcccaaaat 180

gacgttgaaa gaatcctcca 200

<210> 1156
<211> 200
<212> DNA
<213> Digitaria sanguinalis

<400> 1156

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tctttttctt ttttgggtgg gatgcagacg ctcactgatg cactatgcaa agagattgga 120

ccccatgaat ttaatctcca atcaaaggtt cttgaaatgt cctacagctg cgatgataac 180

gtggttggta attggtcaat 200

<210> 1157
<211> 200
<212> DNA
<213> Digitaria sanguinalis

<400> 1157

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tggagattaa attcatgggg tccaatctct ttgcatagtg catcagtgag cgtctgcatc 120

ccacccaaaa aagaaaaaga accacgccta cgtttgctgt ttccagaagg tttccttttc 180

ccacctctgg aagataacat 200

<210> 1158
<211> 121
<212> DNA
<213> Euphorbia heterophylla

<400> 1158

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gaaatgcggt taccaaaacc atttgcacac ccatatttta cactaataaa tttttaaatt 120

t 121

<210> 1159
<211> 121
<212> DNA
<213> Euphorbia heterophylla

<400> 1159

aaatttaaaa atttattagt gtaaaatatg ggtgtgcaaa tggttttggt aaccgcattt 60

ccgaatcgaa tcagactgag ttattaattt ggtttggtta ctctgaaaat tcggttcggt 120

t 121

<210> 1160
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1160

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gcagactctt cctgacaggt tgtgcaaaga gcttgcaaaa gacgagctta gacttgagtc 120

aaaggttttg tctttgtctt ataatcacga ttctagatcg gcgttagaca attggtctgt 180

ctcttttgct tctaagggca 200

<210> 1161
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1161

tgcccttaga agcaaaagag acagaccaat tgtctaacgc cgatctagaa tcgtgattat 60

aagacaaaga caaaaccttt gactcaagtc taagctcgtc ttttgcaagc tctttgcaca 120

acctgtcagg aagagtctgc attccaccca gaaacgaaaa tgaaccacgc tgacgtttct 180

gggtggaatg cacaacctgt 200

<210> 1162
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1162

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attatgacgg caccactttg caacctcaaa gaaatgagga tcacaaaagg cagaaatcac 120

ttcctgttgg actttattcc cgaggtaatt tatatgccac tgtcggtcat tattacgacg 180

ttcaagaagg agaatgtcaa 200

<210> 1163
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1163

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ggaataaagt ccaacaggaa gtgatttctg ccttttgtga tcctcatttc tttgaggttg 120

caaagtggtg ccgtcataat gacggcatca tatgacgagt cttgcatacg tttgttgccc 180

ttagaagcaa aagagacaga 200

<210> 1164
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1164

actttttac atgttcaggg ggttatttga aacatttgaa agttcaaggg gtaactagcc 60

cttttgaac aagttcaggg gttttcatgt attaggcctc tatttaatat tggatgctcc 120

aattggacac ctgagcttta tgttgtcata attagtagta gatatagctt tcttttaatt 180

ttcacgtgtt tttttcgtgt 200

<210> 1165
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1165

acacgaaaaa aacacgtgaa aattaaaaga aagctatatc tactactaat tatgacaaca 60

taaagctcag gtgtccaatt ggagcatcca atattaaata gaggcctaat acatgaaaac 120

ccctgaactt gttcaaaaag ggctagttac cccttgaact ttcaaatgtt tcaaataacc 180

ccctgaacat gtaaaaaagt 200

<210> 1166
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1166

taattttcac gtgtttttt cgtgtaaata gaaagacagc gaacttgttg aagcagttga 60

ccgtgatctg cgaaagatgc tcataaatcc caatgcaaag gatccactta cacttggcgt 120

aagagtgtgg cctcaagcca ttccacagtt tctgattggt cactacgata tcctagatac 180

ggcgaaaaat gcgttaagtg 200

<210> 1167
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1167

cacttaacgc atttttcgcc gtatctagga tatcgtagtg accaatcaga aactgtggaa 60

tggcttgagg ccacactctt acgccaagtg taagtggatc ctttgcattg ggatttatga 120

gcatctttcg cagatcacgg tcaactgctt caacaagttc gctgtctttc tatttacacg 180

aaaaaaacac gtgaaaatta 200

<210> 1168
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1168

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tatgtgtatg gtgtagcttt gggaaaatgt gttgaaggag catatgaaac tgcgtccagt 120

gttactaatt tcctaaccca gtatacttat aaatagtatc tgatgagatt taagcaagag 180

ttcaattatg ctgcggctaa 200

<210> 1169
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1169

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tgggttagga aattagtaac actggacgca gtttcatatg ctccttcaac acattttccc 120

aaagctacac catacacata gttacccccc aaaaacagcc cttccaagcc ttgttcactt 180

aacgcatttt tcgccgtatc 200

<210> 1170
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1170

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tgctttaggt ctgttgtatt tgtaatagtt gcttcacgtt tttcattaag gatggtgtat 120

tctctagtta tgcattcttg ttcatttagc aggcaaaacg agtttgatgt gcattcagaa 180

tatgttggca gttgattgac 200

<210> 1171
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1171

gtcaatcaac tgccaacata ttctgaatgc acatcaaact cgttttgcct gctaaatgaa 60

caagaatgca taactagaga atacaccatc cttaatgaaa aacgtgaagc aactattaca 120

aatacaacag acctaaagca acatttttac ccactactca ataaactcac agtacttagc 180

cgcagcataa ttgaactctt 200

<210> 1172
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1172

agattagtga atgatcacaa caaataccgt ttgataagtc caatttttc ttttttgca 60

agatttggtt ctattatagc tggggcaatt cagtcaaatt tttcctcgaa aaaggataag 120

agcaaggaga caaattcatc aagacataag aaacgtcagc gtggttcatt ttcgtttctg 180

ggtggaatgc aggtattaga 200

<210> 1173
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1173

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gatgaatttg tctccttgct cttatccttt ttcgaggaaa aatttgactg aattgcccca 120

gctataatag aaccaaatct tgcaaaaaaa gaaaaaattg gacttatcaa acggtatttg 180

ttgtgatcat tcactaatct 200

<210> 1174
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1174

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ctaatatcac ttttcttaaa gcccctaaat gattttaata ttaggatttt ctttttgtat 120

ctagctttat tatttgctcg attttactcg ttaaagctat gtttatttgt tgagaagcct 180

tctagaggcg atacagattt 200

<210> 1175
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1175

aaatctgtat cgcctctaga aggcttctca acaaataaac atagctttaa cgagtaaaat 60

cgagcaaata ataaagctag atacaaaaag aaaatcctaa tattaaaatc atttaggggc 120

tttaagaaaa gtgatattag atacaaattt cagagttcat aagtaatatc ctacatctaa 180

tacctgcatt ccacccagaa 200

<210> 1176
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1176

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ttatgttttc ttttcccgaa tctatttttc tttgcagact cttcctgaca ggttgtgcaa 120

agagcttgct aaagacgagc ttagacttgg gtcaaaggtt ttgtctttgt cttataatca 180

cgattctaga tcggcgttag 200

<210> 1177
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1177

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gctcgtcttt agcaagctct ttgcacaacc tgtcaggaag agtctgcaaa gaaaaataga 120

ttcgggaaaa gaaaacataa atagttcata ggataatcac ttgcataagc taagaaaatc 180

tgtatcgcct ctagaaggct 200

<210> 1178
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1178

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aaacgtatgc aaaactcgtc atatgatgct gtcattatga cggttagcaa cttctttact 120

gatgatataa tgtttatcaa ttaatctttt tgatatcgaa acgaaacaat ttcattgttt 180

actcagattc attatcactt 200

<210> 1179
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1179

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ttgataaaca ttatatcatc agtaaagaag ttgctaaccg tcataatgac agcatcatat 120

gacgagtttt gcatacgttt gtcgccctta gaagcaaaag agacagacca attgtctaac 180

gccgatctag aatcgtgatt 200

<210> 1180
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1180

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aatgaggatc acaaaaggca gaaatcactt cccgttggac tttattcccg aggtaccctt 120

cttgcaaatc tattgacaag aatggatgtc aataattcaa ccgaaaccat atgaactatt 180

gcaggtaatt tatatgccac 200

<210> 1181
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1181

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cttgtcaata gatttgcaag aagggtacct cgggaataaa gtccaacggg aagtgatttc 120

tgccttttgt gatcctcatt tctttgaggt tgcaaagtgg tgcctgaaat tttagaagtg 180

ataatgaatc tgagtaaaca 200

<210> 1182
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1182

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agcaccggaa tgttgctccc aacgttattg tcaccgaggc tagagatcgc gtcggtggca 120

acatcaacac cgttgaaagg gacggctatc tctgggaaga ggggcctaac agtttccagc 180

cctccgatcc tatgctaacc 200

<210> 1183
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1183

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cctttcaacg gtgttgatgt tgccaccgac gcgatctcta gcctcggtga caataacgtt 120

gggagcaaca ttccggtgct tagtggcaag tgcctgagca atgcagagac cagtgattcc 180

acctcctaca atcacgcaat 200

<210> 1184
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1184

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tttgggggat cctacagcgc cacggtttgt attgtgggat gggcaattga ggccagttcc 120

ttctaagcca agtgacttgc cgttctttga tttgatgagc attggtggaa aactcagagc 180

tggttttggt gctcttggac 200

<210> 1185
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1185

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gcaagtcact tggcttagaa ggaactggcc tcaattgccc atcccacaat acaaaccgtg 120

gcgctgtagg atcccccaaa actaggtcat ccttcaaacc actatccacc gccatggtta 180

gcataggatc ggagggctgg 200

<210> 1186
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<212> DNA
<213> Euphorbia heterophylla

<400> 1186

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gaagagtttg tgcgccgcaa ccttggagat gaagttttcg agcgtttgat tgagccattt 120

tgttcaggtg tttatgcagg tgatcctgca aaactcagca tgaaagcagc attcggaaaa 180

gtttggatgc tggaacaaaa 200

<210> 1187
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1187

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cctgcataaa cacctgaaca aaatggctca atcaaacgct cgaaaacttc atctccaagg 120

ttgcggcgca caaactcttc aactgattcc tcacgtcctg gaggtggagg ccgaagtcca 180

agagcaccaa aaccagctct 200

<210> 1188
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1188

gaaaagtttg gatgctggaa caaaatggag gcagtatcat tggtggcact tttaaagcaa 60

tccaggaaag gaataaaaat cccaagcctc ctcgagaccc gcgtctacca aaaccaaagg 120

gccaaacagt agggtctttt aggaagggac tgactatgct tccagaggca attgcatcaa 180

gtttgggtag taatatcaag 200

<210> 1189
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1189

cttgatatta ctacccaaac ttgatgcaat tgcctctgga agcatagtca gtcccttcct 60

aaaagaccct actgtttggc cctttggttt tggtagacgc gggtctcgag gaggcttggg 120

atttttattc ctttcctgga ttgctttaaa agtgccacca atgatactgc ctccattttg 180

ttccagcatc caaacttttc 200

<210> 1190
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1190

atcaagtttg ggtagtaata tcaagttatc ttggaagctt ctgggtatct ctaaattgga 60

caatcgggag tacagtttaa catatgaaac acctgaagga tcagttactg tgcagagcaa 120

gagtgtcgta cttacaattc catcccatat tgccagcaat atcctgaatc ctctttctac 180

aactgctgct gaggcactgt 200

<210> 1191
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1191

acagtgcctc agcagcagtt gtagaaagag gattcaggat attgctggca atatgggatg 60

gaattgtaag tacgacactc ttgctctgca cagtaactga tccttcaggt gtttcatatg 120

ttaaactgta ctcccgattg tccaatttag agatacccag aagcttccaa gataacttga 180

tattactacc caaacttgat 200

<210> 1192
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1192

tctacaactg ctgctgaggc actgtcaaaa ttttattacc caccagtagc tgctgtgtct 60

atttcatacc cgaaagatgc aattcggaca gaacgtttaa tagatggcga gcttaaggga 120

tttggtcagt tgcatcctcg tagtcaagga gtggaaactt taggaaccat atacagctca 180

tcacttttcc ctaaccgagc 200

<210> 1193
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1193

gctcggttag ggaaaagtga tgagctgtat atggttccta aagtttccac tccttgacta 60

cgaggatgca actgaccaaa tcccttaagc tcgccatcta ttaaacgttc tgtccgaatt 120

gcatctttcg ggtatgaaat agacacagca gctactggtg ggtaataaaa ttttgacagt 180

gcctcagcag cagttgtaga 200

<210> 1194
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1194

gctcatcact tttccctaac cgagcaccag atggaagaat tttgctcttg aattacattg 60

ggggtgctac caatcctgga atattggcca agaaagacag cgaacttgtt gaagcagttg 120

accgtgatct gcgaaagatg ctcataaatc ccaatgcaaa ggatccactt acacttggcg 180

taagagtgtg gcctcaagcc 200

<210> 1195
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1195

ggcttgaggc cacactctta cgccaagtgt aagtggatcc tttgcattgg gatttatgag 60

catctttcgc agatcacggt caactgcttc aacaagttcg ctgtctttct tggccaatat 120

tccaggattg gtagcacccc caatgtaatt caagagcaaa attcttccat ctggtgctcg 180

gttagggaaa agtgatgagc 200

<210> 1196
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1196

tggcgtaaga gtgtggcctc aagccattcc acagtttctg attggtcact acgatatcct 60

agatacggcg aaaaatgcgt taagtgaaca aggcttggaa gggctgtttt taggggtaa 120

ctatgtgtat ggtgtagctt tgggaaaatg tgttgaagga gcatatgaaa ctgcgtccag 180

tgttactaat ttcctaaccc 200

<210> 1197
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1197

gggttaggaa attagtaaca ctggacgcag tttcatatgc tccttcaaca cattttccca 60

aagctacacc atacacatag ttacccccta aaaacagccc ttccaagcct tgttcactta 120

acgcattttt cgccgtatct aggatatcgt agtgaccaat cagaaactgt ggaatggctt 180

gaggccacac tcttacgcca 200

<210> 1198
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1198

tccagtgtta ctaatttcct aacccagtat acttataaat agtatctgat gagatttaag 60

caagagttca attatgctgc ggctaagtac tgtgagttta ttgagtagtg ggtaaaaatg 120

ttgctttagg tctgttgtat ttgtaatagt tgcttcacgt ttttcattaa ggatggtgta 180

ttctctagtt atgcattctt 200

<210> 1199
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1199

aagaatgcat aactagagaa tacaccatcc ttaatgaaaa acgtgaagca actattacaa 60

atacaacaga cctaaagcaa catttttacc cactactcaa taaactcaca gtacttagcc 120

gcagcataat tgaactcttg cttaaatctc atcagatact atttataagt atactgggtt 180

aggaaattag taacactgga 200

<210> 1200
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1200

tacactaata aatttttaaa tttaaataca ataaattgta taatcatata taaatttatc 60

aatttatttc tttaaaatct ataaaaaaaa gttaataaaa tactatctac agcccttgga 120

aatgattcca taaacctaat ccgagtacgg agttctaaaa tacggattga accagacttg 180

gaataatact tttgtcgaaa 200

<210> 1201
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1201

tttcgacaaa agtattattc caagtctggt tcaatccgta ttttagaact ccgtactcgg 60

attaggttta tggaatcatt tccaagggct gtagatagta ttttattaac ttttttttat 120

agattttaaa gaaataaatt gataaattta tatatgatta tacaatttat tgtatttaaa 180

tttaaaaatt tattagtgta 200

<210> 1202
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1202

acttggaata atacttttgt cgaaagccca gaaagtctgg gtccgctcga ttaacatgtc 60

aaaacaatag aagaaaatat ctttttattt tcgtgtaaat gaatttacca gtaaggttgc 120

gtttatcatt tgtagccttc gtccaatcag attgacacgc tatatttctc cttgtcaatt 180

gaagataaca cagcactatt 200

<210> 1203
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1203

aatagtgctg tgttatcttc aattgacaag gagaaatata gcgtgtcaat ctgattggac 60

gaaggctaca aatgataaac gcaaccttac tggtaaattc atttacacga aaataaaaag 120

atattttctt ctattgtttt gacatgttaa tcgagcggac ccagactttc tgggctttcg 180

acaaaagtat tattccaagt 200

<210> 1204
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1204

caattgaaga taacacagca ctatttccct attagttctg aggccgccac taaacggcgg 60

tgcgcttgcc tcttaccacc acctttcgcc gccatggcct ctatttccga cttgtctctt 120

ttccggccaa caccttctct tgttccatca ttttccaaac gcaatttaaa caactctatc 180

cacaaacaat tcaaactccg 200

<210> 1205
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1205

cggagtttga attgtttgtg gatagagttg tttaaattgc gtttggaaaa tgatggaaca 60

agagaaggtg ttggccggaa aagagacaag tcggaaatag aggccatggc ggcgaaaggt 120

ggtggtaaga ggcaagcgca ccgccgttta gtggcggcct cagaactaat agggaaatag 180

tgctgtgtta tcttcaattg 200

<210> 1206
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1206

ctatccacaa acaattcaaa ctccgatgct caattacaga gcagccttcc acaatttccc 60

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tgattgtagg aggtggaatc actggtctct gcattgctca ggcactcgcc actaagcacc 180

ggaatgttgc tcccaatgtt 200

<210> 1207
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1207

aacattggga gcaacattcc ggtgcttagt ggcgagtgcc tgagcaatgc agagaccagt 60

gattccacct cctacaatca cgcaatctac tgaggcggaa tgtccgttgc cggataagga 120

tttgtctccg ggattggatg gggaaattgt ggaaggctgc tctgtaattg agcatcggag 180

tttgaattgt ttgtggatag 200

<210> 1208
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1208

gcaccggaat gttgctccca atgttattgt caccgaggct agagatcgcg tcggtggcaa 60

catcaacacc gttgaaaggg acggctatct ctgggaagag gggcctaaca gtttccagcc 120

ctccgatcct atgctaacca tggcggtgag gatccaattt ctaattgatt gtcatgtcta 180

acaaattatt gacgaaattt 200

<210> 1209
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1209

aaatttcgtc aataatttgt tagacatgac aatcaattag aaattggatc ctcaccgcca 60

tggttagcat aggatcggag ggctggaaac tgttaggccc ctcttcccag agatagccgt 120

ccctttcaac ggtgttgatg ttgccaccga cgcgatctct agcctcggtg acaataacat 180

tgggagcaac attccggtgc 200

<210> 1210
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1210

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ttgatcgtat tgtaggtgga tagtggtttg aaggatgacc tagttttggg ggatcctact 120

gcgccacggt ttgtattgtg ggatggacaa ttgaggccag ttccttctaa gccaagtgac 180

ttgccgttct ttgatttgat 200

<210> 1211
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1211

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cacaatacaa accgtggcgc agtaggatcc cccaaaacta ggtcatcctt caaaccacta 120

tccacctaca atacgatcaa attagctaat tcaaccaaaa tctccaatta caagcaaatt 180

tcgtcaataa tttgttagac 200

<210> 1212
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1212

gtgacttgcc gttctttgat ttgatgagca ttggtggaaa actcagagct ggttttggtg 60

ctcttggact tcggcctcca cctccagttt gtcctcttta actttcttat tgtaattgtt 120

ctccgattga aaatagttcc ccgtgtgtaa ttttatctgc tcgaaacctt acaattctgc 180

tgaaagtgac agggacgtga 200

<210> 1213
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1213

tcacgtccct gtcactttca gcagaattgt aaggtttcga gcagataaaa ttacacacgg 60

ggaactattt tcaatcggag aacaattaca ataagaaagt taaagaggac aaactggagg 120

tggaggccga agtccaagag caccaaaacc agctctgagt tttccaccaa tgctcatcaa 180

atcaaagaac ggcaagtcac 200

<210> 1214
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1214

tctgctgaaa gtgacaggga cgtgaggaat cagttgaaga gtttgtgcgc cgcaaccttg 60

gagatgaagt tttcgagcgt ttgattgagc cattttgttc aggtaagtta agatatttgt 120

agcttgtagt gttcttatta gttgacactg tatcatgtca agttgtgtta tcagacccaa 180

tacaacatct tactaatcat 200

<210> 1215
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1215

atgattagta agatgttgta ttgggtctga taacacaact tgacatgata cagtgtcaac 60

taataagaac actacaagct acaaatatct taacttacct gaacaaaatg gctcaatcaa 120

acgctcgaaa acttcatctc caaggttgcg gcgcacaaac tcttcaactg attcctcacg 180

tccctgtcac tttcagcaga 200

<210> 1216
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1216

cccaatacaa catcttacta atcatcacat gaatattgct gtatttccca tgtaaaatta 60

aaccgataca acatacctcg acttaaattg atgaatacaa ttcaatgtag tggtacttag 120

ttgacgtccc tcttggttcg acgacctctt ttaattatga tatgttgtgt ttatctaaac 180

actaatttat gaatttcatt 200

<210> 1217
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1217

aatgaaattc ataaattagt gtttagataa acacaacata tcataattaa aagaggtcgt 60

cgaaccaaga gggacgtcaa ctaagtacca ctacattgaa ttgtattcat caatttaagt 120

cgaggtatgt tgtatcggtt taattttaca tgggaaatac agcaatattc atgtgatgat 180

tagtaagatg ttgtattggg 200

<210> 1218
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1218

taaacactaa tttatgaatt tcattcaaaa tctatgccat tgttaataca aatcattatc 60

aaacttgaaa tgaattccat tattgaagtt tatattgcat gctcaatctg atatttgatt 120

catttattta agtagtcctt tagcgtgcat atcgtgaatg gttccttgag atgtgctttt 180

gatcatgtag catccatcat 200

<210> 1219
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1219

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aaggactact taaataaatg aatcaaatat cagattgagc atgcaatata aacttcaata 120

atggaattca tttcaagttt gataatgatt tgtattaaca atggcataga ttttgaatga 180

aattcataaa ttagtgttta 200

<210> 1220
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1220

cttttgatca tgtagcatcc atcatggtga tggcttattt gttctagcta tatataagat 60

gataagagaa tgactaaatg ggtaacttgt ctatgctgtc cagaggtgtt taattgcttt 120

gcagtatctg aaaaagagtc agttggtttc cctatgatgt atgcttctca aacttaaaat 180

cgccctagtt gattttgttg 200

<210> 1221
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1221

caacaaaatc aactagggcg attttaagtt tgagaagcat acatcatagg gaaaccaact 60

gactcttttt cagatactgc aaagcaatta aacacctctg gacagcatag acaagttacc 120

catttagtca ttctcttatc atcttatata tagctagaac aaataagcca tcaccatgat 180

ggatgctaca tgatcaaaag 200

<210> 1222
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1222

aaaatcgccc tagttgattt tgttgctaaa gtcggaagtt ttatttgtat aatttgtata 60

tcttgacaag gttgtcctta atgggagatg ctatttttca tgtgcaggtg tttatgcagg 120

tgatcctgca aaactcagca tgaaagcagc attcggaaaa gtttggatgc tggaacaaaa 180

tggaggcagt atcattggtg 200

<210> 1223
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<212> DNA
<213> Euphorbia heterophylla

<400> 1223

caccaatgat actgcctcca ttttgttcca gcatccaaac ttttccgaat gctgctttca 60

tgctgagttt tgcaggatca cctgcataaa cacctgcaca tgaaaaatag catctcccat 120

taaggacaac cttgtcaaga tatacaaatt atacaaataa aacttccgac tttagcaaca 180

aaatcaacta gggcgatttt 200

<210> 1224
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1224

caaaatggag gcagtatcat tggtggcact tttaaagcaa tccaggaaag gaataaaaat 60

cccaagcctc ctcgagaccc gtatatttat ctccttgctt tgagaatatc ttacatcttt 120

tgtttttgtt tagtttcttg actctagtgc cctgcaggcg tctaccaaaa ccaaagggcc 180

aaacagtagg gtcttttagg 200

<210> 1225
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1225

cctaaaagac cctactgttt ggccctttgg ttttggtaga cgcctgcagg gcactagagt 60

caagaaacta aacaaaaaca aaagatgtaa gatattctca aagcaaggag ataaatatac 120

gggtctcgag gaggcttggg atttttattc ctttcctgga ttgctttaaa agtgccacca 180

atgatactgc ctccattttg 200

<210> 1226
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1226

gggccaaaca gtagggtctt ttaggaaggg actgactatg cttccagagg caattgcatc 60

aaggtaacat ttccaccgga attgaatttt atgaacttta gatggttgta ataattcttg 120

acagtggctg aagtaattga ctgattacct gcattggtgt tgcagtttgg gtagtaatat 180

caagttatct tggaagcttc 200

<210> 1227
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1227

gaagcttcca agataacttg atattactac ccaaactgca acaccaatgc aggtaatcag 60

tcaattactt cagccactgt caagaattat tacaaccatc taaagttcat aaaattcaat 120

tccggtggaa atgttacctt gatgcaattg cctctggaag catagtcagt cccttcctaa 180

aagaccctac tgtttggccc 200

<210> 1228
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1228

tttattgtgt aataattaaa ggataatatt actgtaaaat aatttatatt atttaatata 60

ataattttaa tattattatt tttccttaaa agaattataa atgagcttgt aatgttcatg 120

aacaatccat gaataagcca attgttaaat agaccattca tgaatatgca ttttgagctc 180

gaattaaact cagcttattt 200

<210> 1229
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1229

aaataagctg agtttaattc gagctcaaaa tgcatattca tgaatggtct atttaacaat 60

tggcttattc atggattgtt catgaacatt acaagctcat ttataattct tttaaggaaa 120

aataataata ttaaaattat tatattaaat aatataaatt attttacagt aatattatcc 180

tttaattatt acacaataaa 200

<210> 1230
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1230

agctcgaatt aaactcagct tatttacatt gttgtacatg tgaaatcaag agaatgctca 60

taaagtgagt attaaaccga aacattttat atttcttaaa ggtctgacac atgaattctg 120

agaaatcaaa tctgtaatat tttgacaaat gaaataaatc gtaaaataca tatattcatt 180

ttagtaaaat ctctaaattt 200

<210> 1231
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1231

aaatttagag attttactaa aatgaatata tgtattttac gatttatttc atttgtcaaa 60

atattacaga tttgatttct cagaattcat gtgtcagacc tttaagaaat ataaaatgtt 120

tcggtttaat actcacttta tgagcattct cttgatttca catgtacaac aatgtaaata 180

agctgagttt aattcgagct 200

<210> 1232
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1232

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tccttgtaac aaatcacagc acaatatttt agcattcaaa ttcatagaat ataattaacc 120

gttcaaatct accaatccca cctccttacc cacagcttct actccgagtc cattcattaa 180

ccctcctctc tttgttacaa 200

<210> 1233
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1233

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tgggattggt agatttgaac ggttaattat attctatgaa tttgaatgct aaaatattgt 120

gctgtgattt gttacaagga tttgaggaag aagatgttaa gattgaaaga attaaaaatt 180

tagagatttt actaaaatga 200

<210> 1234
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1234

attaaccctc ctctctttgt tacaaattct tccatgtctt atttttacta aaatctatgc 60

tatctatgtt tcctaaaatt attccacctg ctttcagttt taataaaact tcagatactt 120

tgaagaactc caacactcca ttaaatgaga ccaagtttcg caagtcgggc tacccttttgt 180

tgggcccaag cgcaatttgg 200

<210> 1235
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1235

ccaaattgcg cttgggccca acaaagggta gcccgacttg cgaaacttgg tctcatttaa 60

tggagtgttg gagttcttca aagtatctga agttttatta aaactgaaag caggtggaat 120

aattttagga aacatagata gcatagattt tagtaaaaat aagacatgga agaatttgta 180

acaaagagag gagggttaat 200

<210> 1236
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1236

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gcccgtcaaa atttaaagtt ttatgcgttg agctgggttt tttacaatta tccgagccta 120

atccgataaa taataattta atttttttta tatattatat attgtactaa ataattattt 180

caatatttat atttcaaagt 200

<210> 1237
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1237

actttgaaat ataaatattg aaataattat ttagtacaat atataatata taaaaaaaat 60

taaattatta tttatcggat taggctcgga taattgtaaa aaacccagct caacgcataa 120

aactttaaat tttgacgggc tgaggcttaa gccgaactta gtaaaaaata ggtgtccaaa 180

ttgcgcttgg gcccaacaaa 200

<210> 1238
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1238

tatttcaata tttatatttc aaagttatgg gtgtgcatct ggttaaaacc taatagaatc 60

gaataaatcg aatatcaaat agagaaacca aaccaaatac gaatcaaaat cgaattaacc 120

aaatcaaaaa taaattattc cgtttggtta aaaaccgaac caaaccaaat ttttttaaaa 180

aacaaactta aattaaaaat 200

<210> 1239
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1239

atttttaatt taagtttgtt ttttaaaaaa atttggtttg gttcggtttt taaccaaacg 60

gaataattta tttttgattt ggttaattcg attttgattc gtatttggtt tggtttctct 120

atttgatatt cgatttattc gattctatta ggttttaacc agatgcacac ccataacttt 180

gaaatataaa tattgaaata 200

<210> 1240
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1240

taaaaaacaa acttaaatta aaaattttaa ctcttaaaat ccaaaaataa gtattacaat 60

agttcaaatg acttagtttt gacacataaa tgaatgaggg tgcattttgg ggtttgatgt 120

taaaatgatc tatatttgag cattattagt agaatatttt aaatttttat tatgatattt 180

caattcgatt cggttattgt 200

<210> 1241
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1241

acaataaccg aatcgaattg aaatatcata ataaaaattt aaaatattct actaataatg 60

ctcaaatata gatcatttta acatcaaacc ccaaaatgca ccctcattca tttatgtgtc 120

aaaactaagt catttgaact attgtaatac ttatttttgg attttaagag ttaaaatttt 180

taatttaagt ttgtttttta 200

<210> 1242
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1242

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aatgtttaac tttaataaat aaaccgaacc gaattttcaa agtaaccgaa ccaaattaat 120

aactcagtct tattcgattc ggaaatgtag ttaccaaaac catttgcaca cccatatttt 180

acactaatga atttttaaac 200

<210> 1243
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1243

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gaatcgaata agactgagtt attaatttgg ttcggttact ttgaaaattc ggttcggttt 120

atttattaaa gttaaacatt tcaattttca gttcagtttt agtgttgaaa aaactacaat 180

aaccgaatcg aattgaaata 200

<210> 1244
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<212> DNA
<213> Euphorbia heterophylla

<400> 1244

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tcaaataaat aatataatca tacgtaattt tgtcaattta tttcttaaaa tctataaaaa 120

aaaaagttat taaaatacta tctacagcct ttggaaatga ttccataagc ctgatccgag 180

cacggagttc taaaatacgg 200

<210> 1245
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1245

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tagtatttta ataacttttt tttttataga ttttaagaaa taaattgaca aaattacgta 120

tgattatatt atttatttga aatttttaat aatttataca atttattgta tttaagttta 180

aaaattcatt agtgtaaaat 200

<210> 1246
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1246

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gcccacaaag tctggcctgt tcgattaaca tgtcaaaaca atagaagaaa atatcttttt 120

attttcgtgt aaatgaattt accagtaagg ttgcgtttat catttgtagc cttcgtccaa 180

tcagattgac acgctatatt 200

<210> 1247
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1247

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aaattcattt acacgaaaat aaaaagatat tttcttctat tgttttgaca tgttaatcga 120

acaggccaga ctttgtgggc tttcgacaaa agtatcattc caagtctgct tcaatccgta 180

ttttagaact ccgtgctcgg 200

<210> 1248
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1248

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ccctattagt tctgaggccg ccactaaacg gagtgcgctt gcctcttacc accacctttc 120

gccgccatgg cctctatttc cgacttgtct cttttccggc caacaccttc tcttgttcca 180

tcattttcca aacgcaattt 200

<210> 1249
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1249

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gaaatagagg ccatggcggc gaaaggtggt ggtaagaggc aagcgcactc cgtttagtgg 120

cggcctcaga actaataggg aaatagtgct gtgttatctt caattgacaa ggagaaatat 180

agcgtgtcaa tctgattgga 200

<210> 1250
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1250

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gctcaattac agagcagcct tccacaattt ccccatccaa tcccggagac aaatccttat 120

ccggcaacgg acattccgcc tcagtagatt gcgtgattgt aggaggtgga atcactggtc 180

tctgcattgc tcaggcactt 200

<210> 1251
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1251

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ggcggaatgt ccgttgccgg ataaggattt gtctccggga ttggatgggg aaattgtgga 120

aggctgctct gtaattgagc atcggagttt gaattgtttg tggatagagt tgtttaaatt 180

gcgtttggaa aatgatggaa 200

<210> 1252
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1252

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tgtcaccgag gctagagatc gcgtcggtgg caacatcaac accgttgaaa gggacggcta 120

tctctgggaa gaggggccta acagtttcca gccctccgat cctatgctaa ccatggcggt 180

gaggatccaa tttctaattg 200

<210> 1253
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1253

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taggcccctc ttcccagaga tagccgtccc tttcaacggt gttgatgttg ccaccgacgc 120

gatctctagc ctcggtgaca ataacgttgg gagcaacatt ccggtgctta gtggcaagtg 180

cctgagcaat gcagagacca 200

<210> 1254
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1254

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ttgtaattgg agattttggt tgaattagct aatttgatcg tattgtaggt ggatagtggt 120

ttgaaggatg acctagtttt gggggatcct actgcgccac ggtttgtatt gtgggatggg 180

caattgaggc cagttccttc 200

<210> 1255
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1255

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aaaactaggt catccttcaa accactatcc acctacaata cgatcaaatt agctaattca 120

accaaaatct ccaattacaa gcaaatttcg tcaataattt gttagacatg acaatcaatt 180

agaaattgga tcctcaccgc 200

<210> 1256
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1256

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gcattggtgg aaaactcaga gctggttttg gtgctcttgg acttcggcct ccacctccag 120

tttgtcctct ttaactttct tattgtaatt gttctccgat tgaaaatagt cccccgtgtg 180

taattttatc tgctcgtaac 200

<210> 1257
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1257

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agaaagttaa agaggacaaa ctggaggtgg aggccgaagt ccaagagcac caaaaccagc 120

tctgagtttt ccaccaatgc tcatcaaatc aaagaacggc aagtcacttg gcttagaagg 180

aactggcctc aattgcccat 200

<210> 1258
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1258

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aatcagttga agagtttgtg cgccgcaacc ttggagatga agttttcgag cgtttgattg 120

agccattttg ttcaggtaag ttaagatatt tggagcttgt agtgttctta ttagttgaca 180

ctgtatcatg tcaagttgtg 200

<210> 1259
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1259

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cttacctgaa caaaatggct caatcaaacg ctcgaaaact tcatctccaa ggttgcggcg 120

cacaaactct tcaactgatt cctcacgtcc ctgtcacttt cagcagaatt gtaaggttac 180

gagcagataa aattacacac 200

<210> 1260
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1260

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catgaatatt gctgtatttc ccatgtaaaa ttaaaccgat acaacatacc tcgacttaaa 120

ttgacgaata caattcaatg tagtggtact tagttgacgt ccctttttggt tcgacgacct 180

cttttaatta tgatatgttg 200

<210> 1261
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1261

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cattgaattg tattcgtcaa tttaagtcga ggtatgttgt atcggtttaa ttttacatgg 120

gaaatacagc aatattcatg tgatgattgg taagatgttg taatgggtct gataacacaa 180

cttgacatga tacagtgtca 200

<210> 1262
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1262

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aaaatctatg ccattgttaa tacaaatcat tatcaaactt gaagtgaatt ccattattga 120

agtttatatt gcatgctcaa tctcatccat ctgatatttg attcatttat ttaagtagtc 180

ctttagcgtg catatcgtga 200

<210> 1263
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1263

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ttgagcatgc aatataaact tcaataatgg aattcacttc aagtttgata atgatttgta 120

ttaacaatgg catagatttt gaatgaaatt cataatttag tgtttagata taacacaaca 180

tatcataatt aaaagaggtc 200

<210> 1264
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1264

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tccatcatgg tgatggctta tttgttctag ctatatataa gatgataaga gaatgactaa 120

atgggtaact tgtctatgct gtccagaggt gtttaattgc tttgcagtat ctgaaaaaga 180

gtcagttggt ttccctatga 200

<210> 1265
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1265

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agcatagaca agttacccat ttagtcattc tcttatcatc ttatatatag ctagaacaaa 120

taagccatca ccatgatgga tgctacatga tcaaaagcac atctcaagga accattcacg 180

atatgcacgc taaaggacta 200

<210> 1266
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1266

aaagagtcag ttggtttccc tatgatgtat gcttctcaaa cttaaaatcg ccctagttga 60

ttttgttgct aaattcggaa gttttatttg tataatttgt atatcttgac aaggttgtcc 120

ttaatgggag atgctatttt tcatgtgcag gtgtttatgc aggtgatcct gcaaaactca 180

gcatgaaagc agcattcgga 200

<210> 1267
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1267

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aaaatagcat ctcccattaa ggacaacctt gtcaagatat acaaattata caaataaaac 120

ttccgaattt agcaacaaaa tcaactaggg cgattttaag tttgagaagc atacatcata 180

gggaaaccaa ctgactcttt 200

<210> 1268
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1268

actcagcatg aaagcagcat tcggaaaagt ttggatgctg gaacaaaatg gaggcagtat 60

cattggtggc acttttaaag caatccagga aaggaataaa aatcccaagc ctcctcgaga 120

cccgtatatt tatctccttg ctttgagaat atcttacatc ttttgttttt gttgagtttc 180

ttgactctag tgccctgcag 200

<210> 1269
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1269

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caaggagata aatatacggg tctcgaggag gcttgggatt tttattcctt tcctggattg 120

ctttaaaagt gccaccaatg atactgcctc cattttgttc cagcatccaa acttttccga 180

atgctgcttt catgctgagt 200

<210> 1270
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1270

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cttttaggaa gggactgact atgcttccag aggcaattgc atcaaggtaa catttccacc 120

ggaattaaaa ttttatgaac tttagatggt tgtaataatt cttgacagtg gctgaagtaa 180

ttgactgatt acctgcattg 200

<210> 1271
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1271

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gttcataaaa ttttaattcc ggtggaaatg ttaccttgat gcaattgcct ctggaagcat 120

agtcagtccc ttcctaaaag accctactgt ttggcccttt ggttttggta gacgcctgca 180

gggcactaga gtcaagaaac 200

<210> 1272
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1272

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ggaagcttct gggtatctct aaattggaca atcgggagta cagtttaaca tatgaaacac 120

ctgaaggatc agttactgtg cagagcaaga gtgtcgtact tacaattcca tcccatattg 180

ccagcaatat cctgaatcct 200

<210> 1273
<211> 200
<212> DNA
<213> Euphorbia heterophylla

<400> 1273

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cacagtaact gatccttcag gtgtttcata tgttaaactg tactcccgat tgtccaattt 120

agagataccc agaagcttcc aagataactt gatattacta cccaaactgc aacaccaatg 180

caggtaatca gtcaattact 200

<210> 1274
<211> 77
<212> DNA
<213> Euphorbia heterophylla

<400> 1274

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accgaatttt cagagta 77

<210> 1275
<211> 77
<212> DNA
<213> Euphorbia heterophylla

<400> 1275

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ttttagtgtt gaaaaaa 77

<210> 1276
<211> 200
<212> DNA
<213> Kochia scoparia

<400> 1276

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ggcgaaggag gattattgga ttgtgtgatc gtgggaggtg gtattagtgg gctctgcatt 120

gcacaagcac tttctacaaa gtactcttct ctttctacaa atttcattgt taccgaggcg 180

aaagatcgag ttggtggcaa 200

<210> 1277
<211> 200
<212> DNA
<213> Kochia scoparia

<400> 1277

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tttgtagaaa gtgcttgtgc aatgcagagc ccactaatac cacctcccac gatcacacaa 120

tccaataatc ctccttcgcc aagtgttcct gggtttgaac ttgaggttgg agttgaggtt 180

gagattgtag agcagtgtat 200

<210> 1278
<211> 200
<212> DNA
<213> Kochia scoparia

<400> 1278

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aagaaggacc caacagtttt cagccgtctg atgcagttct caccatggct gttgattgtg 120

ggttgaaaga tgaattggtg tttggtgacc ccaaagcacc tcgatttgtg ctgtggaatg 180

ggaaattaag gcgggtacct 200

<210> 1279
<211> 200
<212> DNA
<213> Kochia scoparia

<400> 1279

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caccaattca tctttcaacc cacaatcaac agccatggtg agaactgcat cagacggctg 120

aaaactgttg ggtccttctt cccagatata gccatcatcc tccttggtgg taatgttgcc 180

accaactcga tctttcgcct 200

<210> 1280
<211> 200
<212> DNA
<213> Kochia scoparia

<400> 1280

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gagctttcct ggcaagatta gagctggcct tggcgctctt ggatttcgtc cttctccacc 120

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acgtttgatt gaacctttt 200

<210> 1281
<211> 200
<212> DNA
<213> Kochia scoparia

<400> 1281

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caacagattc ttcacgacct ggtggagaag gacgaaatcc aagagcgcca aggccagctc 120

taatcttgcc aggaaagctc ataagatcaa agaaagggag atctgtgagc ttagaaggta 180

cccgccttaa tttcccattc 200

<210> 1282
<211> 200
<212> DNA
<213> Kochia scoparia

<400> 1282

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agcatgaaag ctgcttttgg cagagtgtgg gttttggagc agatgggtgg taatatcatt 120

ggtggcgctc tcaaaactat ccaggaaaag aagaataagc ctaagccgcc tcgagatccg 180

cgccttccga agccaaaggg 200

<210> 1283
<211> 200
<212> DNA
<213> Kochia scoparia

<400> 1283

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atagttttga gagcgccacc aatgatatta ccacccatct gctccaaaac ccacactctg 120

ccaaaagcag ctttcatgct taacttggca ggatcaccag catacacacc tgaacaaaaa 180

ggttcaatca aacgttcaaa 200

<210> 1284
<211> 200
<212> DNA
<213> Kochia scoparia

<400> 1284

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tgttgccgaa cgccatttct gctaggcttg gaagtaaagt gaaactttct tggactctag 120

ctagtatttc taagacacac aatggggaat ataatttgat ttatgataca ccagatggac 180

cggtttccgt aaggactaaa 200

<210> 1285
<211> 200
<212> DNA
<213> Kochia scoparia

<400> 1285

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gtgtgtctta gaaatactag ctagagtcca agaaagtttc actttacttc caagcctagc 120

agaaatggcg ttcggcaaca taatgagtcc tttcctaaag gatccaactg tctgaccctt 180

tggcttcgga aggcgcggat 200

<210> 1286
<211> 200
<212> DNA
<213> Kochia scoparia

<400> 1286

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tagtctgctt cgtccattct cagatgctgc tgcagattcc ctttcaaaat ttcactatcc 120

acctgttgca gcagtgtcac tgtcttatcc tgaagaagcg attagacctg agtgcttgat 180

tgatggtaaa cttcaaggat 200

<210> 1287
<211> 200
<212> DNA
<213> Kochia scoparia

<400> 1287

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gtgacactgc tgcaacaggt ggatagtgaa attttgaaag ggaatctgca gcagcatctg 120

agaatggacg aagcagacta cttgcaacat atgatggaat agtcatcacg atacttttag 180

tccttacgga aaccggtcca 200

<210> 1288
<211> 200
<212> DNA
<213> Kochia scoparia

<400> 1288

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accttgggat caatttatag ttcatctctt ttccctggtc gagcaccacc tggtaggacc 120

atgatcttga gcttcattgg aggtgctact aatcctggca tagtagacaa gacgcaagat 180

gaacttgcta agactgttga 200

<210> 1289
<211> 200
<212> DNA
<213> Kochia scoparia

<400> 1289

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ccaatgaagc tcaagatcat ggtcctacca ggtggtgctc gaccagggaa aagagatgaa 120

ctataaattg atcccaaggt ttccacaccc tgactgcggg gatgcagttg cccgaatcct 180

tgaagtttac catcaatcaa 200

<210> 1290
<211> 200
<212> DNA
<213> Kochia scoparia

<400> 1290

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caaaagatcc tcgtgttcta ggcgtgaaag tatggcctca agcaataccc caatttttga 120

taggccactt tgatctgctt gatgctgcaa aagctgcttt gactgatgct gggtgtaaag 180

gattgtttct tggaggaaac 200

<210> 1291
<211> 200
<212> DNA
<213> Kochia scoparia

<400> 1291

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aagcagatca aagtggccta tcaaaaattg gggtattgct tgaggccata ctttcacgcc 120

tagaacacga ggatcttttg cacttggatt tataagaatt cttctcaggt ccttgtcaac 180

agtcttagca agttcatctt 200

<210> 1292
<211> 200
<212> DNA
<213> Kochia scoparia

<400> 1292

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ggcgaaggag gattattgga ttgtgtgatc gtgggaggtg gtattagtgg gctctgcatt 120

gcacaagcac tttctacaaa gtactcttct ctttctacaa atttcattgt taccgaggcg 180

aaagatcgag ttggtggcaa 200

<210> 1293
<211> 200
<212> DNA
<213> Kochia scoparia

<400> 1293

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tttgtagaaa gtgcttgtgc aatgcagagc ccactaatac cacctcccac gatcacacaa 120

tccaataatc ctccttcgcc aagtgttcct gggtttgaac ttgaggttgg agttgaggtt 180

gagattgtag agcagtgtat 200

<210> 1294
<211> 200
<212> DNA
<213> Kochia scoparia

<400> 1294

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aagaaggacc caacagtttt cagccgtctg atgcagttct caccatggct gttgattgtg 120

ggttgaaaga tgaattggtg tttggtgacc ccaaagcacc tcgatttgtg ctgtggaatg 180

ggaaattaag gcgggtacct 200

<210> 1295
<211> 200
<212> DNA
<213> Kochia scoparia

<400> 1295

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caccaattca tctttcaacc cacaatcaac agccatggtg agaactgcat cagacggctg 120

aaaactgttg ggtccttctt cccagatata gccatcatcc tccttggtgg taatgttgcc 180

accaactcga tctttcgcct 200

<210> 1296
<211> 200
<212> DNA
<213> Kochia scoparia

<400> 1296

gaatgggaaa ttaaggcggg taccttctaa gctcacagat ctccctttct ttgatcttat 60

gagctttcct ggcaagatta gagctggcct tggcgctctt ggatttcgtc cttctccacc 120

aggtcgtgaa gaatctgttg aggattttgt tcgtcgaaat cttggcgatg aggtctttga 180

acgtttgatt gaacctttt 200

<210> 1297
<211> 200
<212> DNA
<213> Kochia scoparia

<400> 1297

aaaaaggttc aatcaaacgt tcaaagacct catcgccaag atttcgacga acaaaatcct 60

caacagattc ttcacgacct ggtggagaag gacgaaatcc aagagcgcca aggccagctc 120

taatcttgcc aggaaagctc ataagatcaa agaaagggag atctgtgagc ttagaaggta 180

cccgccttaa tttcccattc 200

<210> 1298
<211> 200
<212> DNA
<213> Kochia scoparia

<400> 1298

tttgaacgtt tgattgaacc tttttgttca ggtgtgtatg ctggtgatcc tgccaagtta 60

agcatgaaag ctgcttttgg cagagtgtgg gttttggagc agatgggtgg taatatcatt 120

ggtggcgctc tcaaaactat ccaggaaaag aagaataagc ctaagccgcc tcgagatccg 180

cgccttccga agccaaaggg 200

<210> 1299
<211> 200
<212> DNA
<213> Kochia scoparia

<400> 1299

ccctttggct tcggaaggcg cggatctcga ggcggcttag gcttattctt cttttcctgg 60

atagttttga gagcgccacc aatgatatta ccacccatct gctccaaaac ccacactctg 120

ccaaaagcag ctttcatgct taacttggca ggatcaccag catacacacc tgaacaaaaa 180

ggttcaatca aacgttcaaa 200

<210> 1300
<211> 200
<212> DNA
<213> Kochia scoparia

<400> 1300

atccgcgcct tccgaagcca aagggtcaga cagttggatc ctttaggaaa ggactcatta 60

tgttgccgaa cgccatttct gctaggcttg gaagtaaagt gaaactttct tggactctag 120

ctagtatttc taagacacac aatggggaat ataatttgat ttatgataca ccagatggac 180

cggtttccgt aaggactaaa 200

<210> 1301
<211> 200
<212> DNA
<213> Kochia scoparia

<400> 1301

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gtgtgtctta gaaatactag ctagagtcca agaaagtttc actttacttc caagcctagc 120

agaaatggcg ttcggcaaca taatgagtcc tttcctaaag gatccaactg tctgaccctt 180

tggcttcgga aggcgcggat 200

<210> 1302
<211> 200
<212> DNA
<213> Kochia scoparia

<400> 1302

caggatgctg ctgcagattc cctttcaaaa tttcactatc cacctgttgc agcagtgtca 60

ctgtcttatc ctgaagaagc gattagacct gagtgcttga ttgatggtaa acttcaagga 120

ttcgggcaac tgcatccccg cagtcagggt gtggaaacct tgggatcaat ttatagttca 180

tctcttttcc ctggtcgagc 200

<210> 1303
<211> 200
<212> DNA
<213> Kochia scoparia

<400> 1303

gctcgaccag ggaaaagaga tgaactataa attgatccca aggtttccac accctgactg 60

cggggatgca gttgcccgaa tccttgaagt ttaccatcaa tcaagcactc aggtctaatc 120

gcttcttcag gataagacag tgacactgct gcaacaggtg gatagtgaaa ttttgaaagg 180

gaatctgcag cagcatcctg 200

<210> 1304
<211> 200
<212> DNA
<213> Kochia scoparia

<400> 1304

gttcatctct tttccctggt cgagcaccac ctggtaggac catgatcttg agcttcattg 60

gaggtgctac taatcctggc atagtagaca agacgcaaga tgaacttgct aagactgttg 120

acaaggacct gagaagaatt cttataaatc caagtgcaaa agatcctcgt gttctaggcg 180

tgaaagtatg gcctcaagca 200

<210> 1305
<211> 200
<212> DNA
<213> Kochia scoparia

<400> 1305

tgcttgaggc catactttca cgcctagaac acgaggatct tttgcacttg gatttataag 60

aattcttctc aggtccttgt caacagtctt agcaagttca tcttgcgtct tgtctactat 120

gccaggatta gtagcacctc caatgaagct caagatcatg gtcctaccag gtggtgctcg 180

accagggaaa agagatgaac 200

<210> 1306
<211> 200
<212> DNA
<213> Kochia scoparia

<400> 1306

aggcgtgaaa gtatggcctc aagcaatacc ccaatttttg ataggccact ttgatctgct 60

tgatgctgca aaagctgctt tgactgatgc tgggtgtaaa ggattgtttc ttggaggaaa 120

ctatgtatca ggtgttgcct tggggcggtg tatagagggt gcttatgaat ctgcagccga 180

ggtagttgat ttcctctccc 200

<210> 1307
<211> 200
<212> DNA
<213> Kochia scoparia

<400> 1307

gggagaggaa atcaactacc tcggctgcag attcataagc accctctata caccgcccca 60

aggcaacacc tgatacatag tttcctccaa gaaacaatcc tttacaccca gcatcagtca 120

aagcagcttt tgcagcatca agcagatcaa agtggcctat caaaaattgg ggtattgctt 180

gaggccatac tttcacgcct 200

<210> 1308
<211> 200
<212> DNA
<213> Kochia scoparia

<400> 1308

gtaacttgcc tacccctctc agttataatt actacattca agaaggttaa tgtgaaaaga 60

cctcttgagg gctttggagt tcttgtcccc tctgttgagc agaaaaatgg gttgaagact 120

cttggtacac tattttcctc catcatgttt cctgatcgtg ctccctctga tgtgtatctc 180

tatacaacct ttgttggtgg 200

<210> 1309
<211> 200
<212> DNA
<213> Kochia scoparia

<400> 1309

ccaccaacaa aggttgtata gagatacaca tcagagggag cacgatcagg aaacatgatg 60

gaggaaaata gtgtaccaag agtcttcaac ccatttttct gctcaacaga ggggacaaga 120

actccaaagc cctcaagagg tcttttcaca ttaaccttct tgaatgtagt aattataact 180

gagaggggta ggcaagttac 200

<210> 1310
<211> 200
<212> DNA
<213> Kochia scoparia

<400> 1310

atctctatac aacctttgtt ggtggaagca ggaatagtga acttgcaaaa gcttcaacgg 60

atgagctgaa gcaaatagtt tcttctgacc ttgagaagct attgggcact gagggtgaac 120

ctacctctgt gaatcatttc tattggagca aggcattccc tctttatggg cgcaactatg 180

actcagtact caaagcaatc 200

<210> 1311
<211> 200
<212> DNA
<213> Kochia scoparia

<400> 1311

gattgctttg agtactgagt catagttgcg cccataaaga gggaatgcct tgctccaata 60

gaaatgattc acagaggtag gttcaccctc agtgcccaat agcttctcaa ggtcagaaga 120

aactatttgc ttcagctcat ccgttgaagc ttttgcaagt tcactattcc tgcttccacc 180

aacaaaggtt gtatagagat 200

<210> 1312
<211> 150
<212> DNA
<213> Lolium multiflorum

<400> 1312

aatcctgcct tattggtatt tattatgcag gtggattatc tgccgttatc cctcatggta 60

acagctttta agaaggaaga tgtcaaaaga cccctggaag gatttggggt gttggtaccc 120

tataaggaac agcaaaaaca tggtctgaaa 150

<210> 1313
<211> 150
<212> DNA
<213> Lolium multiflorum

<400> 1313

tttcagacca tgtttttgct gttccttata gggtaccaac accccaaatc cttccagggg 60

tcttttgaca tcttccttct taaaagctgt taccatgagg gataacggca gataatccac 120

ctgcataata aataccaata aggcaggatt 150

<210> 1314
<211> 108
<212> DNA
<213> Lolium multiflorum

<400> 1314

agggtggcca tcatcggcgc cggcgtgagc ggcctggcgg cgtgcaagca cctgctggag 60

cgcggctgcc ggcccgtcgt cttcgaggcg gacacgctcc ttggcggt 108

<210> 1315
<211> 108
<212> DNA
<213> Lolium multiflorum

<400> 1315

accgccaagg agcgtgtccg cctcgaagac gacgggccgg cagccgcgct ccagcaggtg 60

cttgcacgcc gccaggccgc tcacgccggc gccgatgatg gccaccct 108

<210> 1316
<211> 144
<212> DNA
<213> Lolium multiflorum

<400> 1316

agtgttggga gcttctttga acgccatttt ggaaaggaag ttgtcgacta tcttattgat 60

ccatttgtag ctggaacaag tgcaggagat cctgagtcat tatctatccg tcatgcattt 120

ccagcgttat ggaatttaga aaag 144

<210> 1317
<211> 144
<212> DNA
<213> Lolium multiflorum

<400> 1317

ctttctaaa ttccataacg ctggaaatgc atgacggata gataatgact caggatctcc 60

tgcacttgtt ccagctacaa atggatcaat aagatagtcg acaacttcct ttccaaaatg 120

gcgttcaaag aagctcccaa cact 144

<210> 1318
<211> 114
<212> DNA
<213> Lolium multiflorum

<400> 1318

ataggaaccc tcttctcctc tatgatgttc ccagatcgag ctcctaatga ccaacactta 60

tttacaacat tcgttggggg aagccacaat agggatctcg ctggagctcc aacg 114

<210> 1319
<211> 114
<212> DNA
<213> Lolium multiflorum

<400> 1319

cgttggagct ccagcgagat ccctattgtg gcttccccca acgaatgttg taaataagtg 60

ttggtcatta ggagctcgat ctgggaacat catagaggag aagagggttc ctat 114

<210> 1320
<211> 200
<212> DNA
<213> Lolium multiflorum

<400> 1320

ctcgacgcga acgcgggatc tctttcgcgt caggcgtgaa atagggccgg atttccatat 60

acaactacta accgagaacc ccgcccactg gaatgcgatt cccagcccat cgacctatcc 120

aattccaatt ccagtgggcc atgaaaaccg caaaccaacc aaccaataca gccgcagccg 180

catcccgtca tccactccgc 200

<210> 1321
<211> 200
<212> DNA
<213> Lolium multiflorum

<400> 1321

gcggagtgga tgacgggatg cggctgcggc tgtattggtt ggttggtttg cggttttcat 60

ggcccactgg aattggaatt ggataggtcg atgggctggg aatcgcattc cagtgggcgg 120

ggttctcggt tagtagttgt atatggaaat ccggccctat ttcacgcctg acgcgaaaga 180

gatcccgcgt tcgcgtcgag 200

<210> 1322
<211> 200
<212> DNA
<213> Lolium multiflorum

<400> 1322

agccgcatcc cgtcatccac tccgcactgc catctccccc gcccgagcga cggaaatggt 60

cggcgcaacc atggccaccg ctaccgtcac ggcggcgcta ccgctccgcc tccgggtccc 120

cgcgcgcccc cgacgcggac agacgcgctg cgcggtcgcg agcgatgcca ccgaggcgcc 180

ggccgtgccc agcgcacggc 200

<210> 1323
<211> 200
<212> DNA
<213> Lolium multiflorum

<400> 1323

gccgtgcgct gggcacggcc ggcgcctcgg tggcatcgct cgcgaccgcg cagcgcgtct 60

gtccgcgtcg ggggcgcgcg gggacccgga ggcggagcgg tagcgccgcc gtgacggtag 120

cggtggccat ggttgcgccg accatttccg tcgctcgggc gggggagatg gcagtgcgga 180

gtggatgacg ggatgcggct 200

<210> 1324
<211> 200
<212> DNA
<213> Lolium multiflorum

<400> 1324

gcgccggccg tgcccagcgc acggctgtcc gcggattgcg tcatcgtggg cggcggcatc 60

agcggcctct gcaccgcaca ggcgctggcc accaagtacg gcgtcaccga cttgctcgtc 120

acggaggccc gcgctcgcgc aggcggcaac atcaccaccg tcgagcgccc cgacgagggg 180

tacctctggg aggagggccc 200

<210> 1325
<211> 200
<212> DNA
<213> Lolium multiflorum

<400> 1325

gggccctcct cccagaggta cccctcgtcg gggcgctcga cggtggtgat gttgccgcct 60

gcgcgagcgc gggcctccgt gacgagcaag tcggtgacgc cgtacttggt ggccagcgcc 120

tgtgcggtgc agaggccgct gatgccgccg cccacgatga cgcaatccgc ggacagccgt 180

gcgctgggca cggccggcgc 200

<210> 1326
<211> 200
<212> DNA
<213> Lolium multiflorum

<400> 1326

aggggtacct ctgggaggag ggccccaaca gcttccagcc ctccgacccc gtcctcacca 60

tggccgtacg caccatgctc gctttctcct tcttttccgg attcttcggg acgtaggcgt 120

acagaataca gatacgatcg ctgaatggat tggttgcgca ggtagacagc gggctcaagg 180

atgacttggt gttcggggac 200

<210> 1327
<211> 200
<212> DNA
<213> Lolium multiflorum

<400> 1327

gtccccgaac accaagtcat ccttgagccc gctgtctacc tgcgcaacca atccattcag 60

cgatcgtatc tgtattctgt acgcctacgt cccgaagaat ccggaaaaga aggagaaagc 120

gagcatggtg cgtacggcca tggtgaggac ggggtcggag ggctggaagc tgttggggcc 180

ctcctcccag aggtacccct 200

<210> 1328
<211> 200
<212> DNA
<213> Lolium multiflorum

<400> 1328

caaggatgac ttggtgttcg gggaccccaa tgcgccgcgc ttcgtgctgt ggcaggggaa 60

gctgaggccg gtgccgtcca agcctggcga cctgcctttc ttcgacctca tgagtattcc 120

tgggaagctc agggccggcc ttggcgcgct cggcattcgt ccgcctcctc cagtttgtgc 180

tctgcccgtg ctctctattc 200

<210> 1329
<211> 200
<212> DNA
<213> Lolium multiflorum

<400> 1329

gaatagagag cacgggcaga gcacaaactg gaggaggcgg acgaatgccg agcgcgccaa 60

ggccggccct gagcttccca ggaatactca tgaggtcgaa gaaaggcagg tcgccaggct 120

tggacggcac cggcctcagc ttcccctgcc acagcacgaa gcgcggcgca ttggggtccc 180

cgaacaccaa gtcatccttg 200

<210> 1330
<211> 200
<212> DNA
<213> Lolium multiflorum

<400> 1330

tgtgctctgc ccgtgctctc tattctttag tgaattttga ttgtcaaaga tggggctgag 60

cgttcccggc gaaggtttca ggggcgtgag gagtcggtgg aggagtttgt gcgccgcaac 120

ctcggcgcgg aggtctttga gcgcctcatc gagcctttct gctcaggtaa tgtgcagtag 180

tatatgtctg ttctgttctg 200

<210> 1331
<211> 200
<212> DNA
<213> Lolium multiflorum

<400> 1331

cagaacagaa cagacatata ctactgcaca ttacctgagc agaaaggctc gatgaggcgc 60

tcaaagacct ccgcgccgag gttgcggcgc acaaactcct ccaccgactc ctcacgcccc 120

tgaaaccttc gccgggaacg ctcagcccca tctttgacaa tcaaaattca ctaaagaata 180

gagagcacgg gcagagcaca 200

<210> 1332
<211> 200
<212> DNA
<213> Lolium multiflorum

<400> 1332

agtagtatat gtctgttctg ttctgctctg cttcttgcat tgatcccgat aataagaata 60

taacatttcg atatcaacgt taggtgtgta tgcgggtgac ccttcaaagc tcagtatgcg 120

ggctgcattt gggaaggtat ggagactgga ggagaatgga ggcagtatta ttggtggaac 180

catcaaggca attcaggata 200

<210> 1333
<211> 200
<212> DNA
<213> Lolium multiflorum

<400> 1333

tatcctgaat tgccttgatg gttccaccaa taatactgcc tccattctcc tccagtctcc 60

ataccttccc aaatgcagcc cgcatactga gctttgaagg gtcacccgca tacacaccta 120

acgttgatat cgaaatgtta tattcttatt atcgggatca atgcaagaag cagagcagaa 180

cagaacagac atatactact 200

<210> 1334
<211> 200
<212> DNA
<213> Lolium multiflorum

<400> 1334

ggaaccatca aggcaattca ggatagaggc aagaacccca aaccaccgag ggatccgtaa 60

gtggagactc tacttttcta tttagtcagt taactcactg ttccattaga ctcgtattaa 120

tctgtttcac cacttttagc cgacttccga caccaaaggg gcagacggtg gcatctttca 180

ggaagggtct agccatgctc 200

<210> 1335
<211> 200
<212> DNA
<213> Lolium multiflorum

<400> 1335

gagcatggct agacccttcc tgaaagatgc caccgtctgc ccctttggtg tcggaagtcg 60

gctaaaagtg gtgaaacaga ttaatacgag tctaatggaa cagtgagtta actgactaaa 120

tagaaaagta gagtctccac ttacggatcc ctcggtggtt tggggttctt gcctctatcc 180

tgaattgcct tgatggttcc 200

<210> 1336
<211> 200
<212> DNA
<213> Lolium multiflorum

<400> 1336

tttcaggaag ggtctagcca tgctcccaaa tgctatcgct tctaggtttg ttttcatcac 60

ttgtgcacat acctaagtta tgctatcagt atacgtggtg ctgtatattg ttcagataga 120

ggggacagat ctgttggtag acctactgtt tgctgaactc aataccatat gaatatcatt 180

gcatcagcac ccaaagtacc 200

<210> 1337
<211> 200
<212> DNA
<213> Lolium multiflorum

<400> 1337

ggtactttgg gtgctgatgc aatgatattc atatggtatt gagttcagca aacagtaggt 60

ctaccaacag atctgtcccc tctatctgaa caatatacag caccacgtat actgatagca 120

taacttaggt atgtgcacaa gtgatgaaaa caaacctaga agcgatagca tttgggagca 180

tggctagacc cttcctgaaa 200

<210> 1338
<211> 200
<212> DNA
<213> Lolium multiflorum

<400> 1338

tcattgcatc agcacccaaa gtacctgtgg ctcgattatt atatcagcca ttctcgcatt 60

gttgatacta atgcatctgt gttaatcttt ttcatcttgc ttttttggtt gggacctgta 120

ctatatagga aattccacga gggatgagtt atagagcatg tgtgtgtatg tccatgcccc 180

ttgtactcgg agatgatcat 200

<210> 1339
<211> 200
<212> DNA
<213> Lolium multiflorum

<400> 1339

atgatcatct ccgagtacaa ggggcatgga catacacaca catgctctat aactcatccc 60

tcgtggaatt tcctatatag tacaggtccc aaccaaaaaa gcaagatgaa aaagattaac 120

acagatgcat tagtatcaac aatgcgagaa tggctgatat aataatcgag ccacaggtac 180

tttgggtgct gatgcaatga 200

<210> 1340
<211> 200
<212> DNA
<213> Lolium multiflorum

<400> 1340

gccccttgta ctcggagatg atcatgaatt atagtaataa tttcatgctt ggtcttaaga 60

cgtaaccctg tcatgttttg cattccttca tttccaggtt gggtagtaaa gtcaaactct 120

cgtggaagct tacgggcatt acaaagtcgg acaaccaggg atatgtgtta gcgtatgaaa 180

caccggaagg agttgtttca 200

<210> 1341
<211> 200
<212> DNA
<213> Lolium multiflorum

<400> 1341

tgaaacaact ccttccggtg tttcatacgc taacacatat ccctggttgt ccgactttgt 60

aatgcccgta agcttccacg agagtttgac tttactaccc aacctggaaa tgaaggaatg 120

caaaacatga cagggttacg tcttaagacc aagcatgaaa ttattactat aattcatgat 180

catctccgag tacaaggggc 200

<210> 1342
<211> 200
<212> DNA
<213> Lolium multiflorum

<400> 1342

tgaaacaccg gaaggagttg tttcagtgca ggctaaaagt gttatcatga ccattccgtc 60

atatattgct agtgaaatct tgcgcccact ttcggtaagt tcatgtttgc aaaattaatt 120

ggtgtactac taatgttagt gttaggttcc tgtagttctc catactcctg tgcagtggcg 180

gacccaggat tttggcaaag 200

<210> 1343
<211> 200
<212> DNA
<213> Lolium multiflorum

<400> 1343

ctttgccaaa atcctgggtc cgccactgca caggagtatg gagaactaca ggaacctaac 60

actaacatta gtagtacacc aattaatttt gcaaacatga acttaccgaa agtgggcgca 120

agatttcact agcaatatat gacggaatgg tcatgataac acttttagcc tgcactgaaa 180

caactccttc cggtgtttca 200

<210> 1344
<211> 200
<212> DNA
<213> Lolium multiflorum

<400> 1344

tggcggaccc aggattttgg caaagggtat gccacacaaa aaaattggcc tgccttgata 60

acgatttttt cttagaatat gaagtagaag tgatgattat gaaatatgat tgaaaaaatc 120

aaataaaagt gttcttgcat tataatcaaa atattaaatt gcttaacaca tgcacggttt 180

gcgaggtgtc ctatttttta 200

<210> 1345
<211> 200
<212> DNA
<213> Lolium multiflorum

<400> 1345

taaaaaatag gacacctcgc aaaccgtgca tgtgttaagc aatttaatat tttgattata 60

atgcaagaac acttttattt gatttttca atcatatttc ataatcatca cttctacttc 120

atattctaag aaaaaatcgt tatcaaggca ggccaatttt tttgtgtggc ataccctttg 180

ccaaaatcct gggtccgcca 200

<210> 1346
<211> 200
<212> DNA
<213> Lolium multiflorum

<400> 1346

ggtttgcgag gtgtcctatt ttttaaacta atttctcacc gtaccatctg accctaaatt 60

tctgaagtat ttgaccacgg aataatcgtt tcagcaacac tacaagataa cgttagatcg 120

tactaaataa acaaagaaat atgctgaaga aagctacaac ggagcatata aaaattagtc 180

acaatagcta aatggtttct 200

<210> 1347
<211> 200
<212> DNA
<213> Lolium multiflorum

<400> 1347

agaaaccatt tagctattgt gactaatttt tatatgctcc gttgtagctt tcttcagcat 60

atttctttgt ttatttagta cgatctaacg ttatcttgta gtgttgctga aacgattatt 120

ccgtggtcaa atacttcaga aatttagggt cagatggtac ggtgagaaat tagtttaaaa 180

aataggacac ctcgcaaacc 200

<210> 1348
<211> 200
<212> DNA
<213> Lolium multiflorum

<400> 1348

tagtcacaat agctaaatgg tttcttaatt aatcaccata gctaatcatc cattacgaaa 60

gtacctggac gcatgcatgg tgcatggcca tgtctctagg ctagtttagc aattaaccgg 120

atggtcaagt gagtaccaaa aactaataaa gcatgtgtcc ctgtacgatg catgctcgca 180

ggctacatgc accggcttga 200

<210> 1349
<211> 200
<212> DNA
<213> Lolium multiflorum

<400> 1349

tcaagccggt gcatgtagcc tgcgagcatg catcgtacag ggacacatgc tttattagtt 60

tttggtactc acttgaccat ccggttaatt gctaaactag cctagagaca tggccatgca 120

ccatgcatgc gtccaggtac tttcgtaatg gatgattagc tatggtgatt aattaagaaa 180

ccatttagct attgtgacta 200

<210> 1350
<211> 200
<212> DNA
<213> Lolium multiflorum

<400> 1350

tcgcaggcta catgcaccgg cttgattaaa atggccagct gattacaggc ggttcatatg 60

gctgggccgc taggtatgcc atggcatatg cggcataccc tgtaggtccg cactgctcct 120

gtggtaacca tgaaatagca cgctagtaca ctattcctta atagagttgc taatcaataa 180

ttgaccgcat tacgatactg 200

<210> 1351
<211> 200
<212> DNA
<213> Lolium multiflorum

<400> 1351

cagtatcgta atgcggtcaa ttattgatta gcaactctat taaggaatag tgtactagcg 60

tgctatttca tggttaccac aggagcagtg cggacctaca gggtatgccg catatgccat 120

ggcataccta gcggcccagc catatgaacc gcctgtaatc agctggccat tttaatcaag 180

ccggtgcatg tagcctgcga 200

<210> 1352
<211> 200
<212> DNA
<213> Lolium multiflorum

<400> 1352

aataattgac cgcattacga tactggttgc ctgtaatctt agtccaaaca catgattgag 60

catttttgtt gagagattaa ttgattaatg tggttaaact gttcactgat gcataggttg 120

gactatttct tcaccaatca actctatgtt tcaaataatt gaaatataca tcaatagatt 180

cagaaaactg tatcttgttt 200

<210> 1353
<211> 200
<212> DNA
<213> Lolium multiflorum

<400> 1353

aaacaagata cagttttctg aatctattga tgtatatttc aattatttga aacatagagt 60

tgattggtga agaaatagtc caacctatgc atcagtgaac agtttaacca cattaatcaa 120

ttaatctctc aacaaaaatg ctcaatcatg tgtttggact aagattacag gcaaccagta 180

tcgtaatgcg gtcaattatt 200

<210> 1354
<211> 200
<212> DNA
<213> Lolium multiflorum

<400> 1354

gagcgcctca tcgagccttc tgctcaggtg tgtatgcggg tgacccttca aagctcagta 60

tgagggctgc gtttgggaag gtatggagac tggaggagaa tggaggcagt attattggtg 120

gaaccatcaa ggcaattcag gatagaggca agaaccccaa accgccgagg gatccccgac 180

ttccgacacc aaaggggcag 200

<210> 1355
<211> 200
<212> DNA
<213> Lolium multiflorum

<400> 1355

ctgccccttt ggtgtcggaa gtcggggatc cctcggcggt ttggggttct tgcctctatc 60

ctgaattgcc ttgatggttc caccaataat actgcctcca ttctcctcca gtctccatac 120

cttcccaaac gcagccctca tactgagctt tgaagggtca cccgcataca cacctgagca 180

gaaggctcga tgaggcgctc 200

<210> 1356
<211> 200
<212> DNA
<213> Lolium multiflorum

<400> 1356

ccgacttccg acaccaaagg ggcagacggt ggcatctttc aggaagggtc tagccatgct 60

cccaaatgct atcgcttcta ggttgggtag taaagtcaaa ctctcgtgga agcttacggg 120

cattacaaag tcggacaacc agggatatgt gttagcgtat gaaacaccgg aaggagttgt 180

ttcagtgcag gctaaaagtg 200

<210> 1357
<211> 200
<212> DNA
<213> Lolium multiflorum

<400> 1357

cacttttagc ctgcactgaa acaactcctt ccggtgtttc atacgctaac acatatccct 60

ggttgtccga ctttgtaatg cccgtaagct tccacgagag tttgacttta ctacccaacc 120

tagaagcgat agcatttggg agcatggcta gacccttcct gaaagatgcc accgtctgcc 180

cctttggtgt cggaagtcgg 200

<210> 1358
<211> 200
<212> DNA
<213> Lolium multiflorum

<400> 1358

gttgtttcag tgcaggctaa aagtgttatc atgaccattc cgtcatatat tgctagtgaa 60

atcttgcgcc cactttcgag tgatgcagca gatggtctct caaaatttta ttatccaccg 120

gttgctgctg taactgtttc atatccaaca gaagctatta gaaagaatgc ttaattgatg 180

gggagctcca gggtttcggc 200

<210> 1359
<211> 200
<212> DNA
<213> Lolium multiflorum

<400> 1359

gccgaaaccc tggagctccc catcaattaa gcattctttc taatagcttc tgttggatat 60

gaaacagtta cagcagcaac cggtggataa taaaattttg agagaccatc tgctgcatca 120

ctcgaaagtg ggcgcaagat ttcactagca atatatgacg gaatggtcat gataacactt 180

ttagcctgca ctgaaacaac 200

<210> 1360
<211> 200
<212> DNA
<213> Lolium multiflorum

<400> 1360

tgatggggag ctccagggtt tcggccagtt gcatccacgt agccaaggag ttgagacttt 60

agggacaata tatagctctt ctctctttcc gaatcgtgct cctgctggaa gagtgttact 120

tctgaactat atcgggggtg ctacaaatac agggatcgtc tccaagactg agagtgactt 180

ggtggaagca gttgatcgtg 200

<210> 1361
<211> 200
<212> DNA
<213> Lolium multiflorum

<400> 1361

cacgatcaac tgcttccacc aagtcactct cagtcttgga gacgatccct gtatttgtag 60

caccccccgat atagttcaga agtaacactc ttccagcagg agcacgattc ggaaagagag 120

aagagctata tattgtccct aaagtctcaa ctccttggct acgtggatgc aactggccga 180

aaccctggag ctccccatca 200

<210> 1362
<211> 200
<212> DNA
<213> Lolium multiflorum

<400> 1362

gacttggtgg aagcagttga tcgtgacctc agaaaaatgt tgataaatcc tacagcacca 60

gacccttttag ccttaggcgt ccgagtgtgg ccacaagcca ttccacagtt tttgattggg 120

caccttgatc gccttgatgc ggcaaaatct gccttggcca gaggcggctg cagtgggttg 180

tttctaggag gaaactatgt 200

<210> 1363
<211> 200
<212> DNA
<213> Lolium multiflorum

<400> 1363

acatagtttc ctcctagaaa caacccactg cagccgcctc tggccaaggc agattttgcc 60

gcatcaaggc gatcaaggtg cccaatcaaa aactgtggaa tggcttgtgg ccacactcgg 120

acgcctaagg ctaaagggtc tggtgctgta ggatttatca acatttttct gaggtcacga 180

tcaactgctt ccaccaagtc 200

<210> 1364
<211> 200
<212> DNA
<213> Lolium multiflorum

<400> 1364

ggttgtttct aggaggaaac tatgtagcag gagttgcctt gggccgatgc atcgagggtg 60

cgtacgagag tgcctcagaa gtatctgact tcttgaccaa gtatgcctac aagtgatgaa 120

agaagtgtaa ttcatcatct tgctgcatat ttgaggtgcg gccagaatta gtaataattc 180

ggaaaatctt gtaatcttct 200

<210> 1365
<211> 200
<212> DNA
<213> Lolium multiflorum

<400> 1365

agaagattac aagattttcc gaattattac taattctggc cgcacctcaa atatgcagca 60

agatgatgaa ttacacttct ttcatcactt gtaggcatac ttggtcaaga agtcagatac 120

ttctgaggca ctctcgtacg caccctcgat gcatcggccc aaggcaactc ctgctacata 180

gtttcctcct agaaacaacc 200

<210> 1366
<211> 200
<212> DNA
<213> Lolium multiflorum

<400> 1366

ggttttggta ttattctact aataattcgt ggcatttta tgtagggaca atatatagct 60

cttctctctt tccaaatcgt gctcctgctg gaagagtgtt acttctgaac tatatcggtg 120

gtgctacaaa tacagggatc gtctccaagg ttctctcgac ctgctggata ctcatgtcat 180

tttcttattg cgtgatacca 200

<210> 1367
<211> 200
<212> DNA
<213> Lolium multiflorum

<400> 1367

tggtatcacg caataagaaa atgacatgag tatccagcag gtcgagagaa ccttggagac 60

gatccctgta tttgtagcac caccgatata gttcagaagt aacactcttc cagcaggagc 120

acgatttgga aagagagaag agctatatat tgtccctaca taaaaatgcc acgaattatt 180

agtagaataa taccaaaacc 200

<210> 1368
<211> 200
<212> DNA
<213> Lolium multiflorum

<400> 1368

gtcattttct tattgcgtga taccaggtta cagtattcag ttagtgttgg tcacctattc 60

atttatgatt aatataaata actggactgc atttttcacc cccagctgca attgtgaata 120

caaatagatt aaatggtctg cttagatgct acattcaatc tcaatagtat tgttagattt 180

ttttttggc tggccatatt 200

<210> 1369
<211> 200
<212> DNA
<213> Lolium multiflorum

<400> 1369

aatatggcca gccaaaaaaa aaatctaaca atactattga gattgaatgt agcatctaag 60

cagaccattt aatctatttg tattcacaat tgcagctggg ggtgaaaaat gcagtccagt 120

tatttatatt aatcataaat gaataggtga ccaacactaa ctgaatactg taacctggta 180

tcacgcaata agaaaatgac 200

<210> 1370
<211> 200
<212> DNA
<213> Lolium multiflorum

<400> 1370

gatttttttt ttggctggcc atatttatac tgatcccatt ttgtttgcag actgagagtg 60

acttggtgga agcagttgat cgtgacctca gaaaaatgtt gataaatcct acagcaccag 120

acccttttagc cttaggtgtc cgagtgtggc cacaagccat tccacagttt ttgattgggc 180

accttgatcg ccttgatgcg 200

<210> 1371
<211> 200
<212> DNA
<213> Lolium multiflorum

<400> 1371

cgcatcaagg cgatcaaggt gcccaatcaa aaactgtgga atggcttgtg gccacactcg 60

gacacctaag gctaaagggt ctggtgctgt aggatttatc aacatttttc tgaggtcacg 120

atcaactgct tccaccaagt cactctcagt ctgcaaacaa aatgggatca gtataaatat 180

ggccagccaa aaaaaaaatc 200

<210> 1372
<211> 200
<212> DNA
<213> Lolium multiflorum

<400> 1372

tgggcacctt gatcgccttg atgcggcaaa atctgccttg gccagaggcg gctgcagtgg 60

gttgttccta ggaggaaact atgtagcagg agttgccttg ggccgatgca tcgagggtgc 120

gtacgagagt gcctcagaag tatctgactt cttgaccaag tatgcctaca agtgatgaaa 180

gaagtgtaat tcatcatctt 200

<210> 1373
<211> 200
<212> DNA
<213> Lolium multiflorum

<400> 1373

aagatgatga attacacttc tttcatcact tgtaggcata cttggtcaag aagtcagata 60

cttctgaggc actctcgtac gcaccctcga tgcatcggcc caaggcaact cctgctacat 120

agtttcctcc taggaacaac ccactgcagc cgcctctggc caaggcagat tttgccgcat 180

caaggcgatc aaggtgccca 200

<210> 1374
<211> 200
<212> DNA
<213> Lolium multiflorum

<400> 1374

tcaggggcgt gaggagtcgg tggaggaatt tgtgcgccgc aacctgggtg cggaggtctt 60

tgagcgcctc atcgagcctt tctgctcagg tagtgtgcag tagtatctgt ctgttctgtt 120

ctgctctgct tcctgcattg attccgataa taagaatata acatttcgat atcaacgtta 180

ggtgtgtatg cgggtgaccc 200

<210> 1375
<211> 200
<212> DNA
<213> Lolium multiflorum

<400> 1375

gggtcacccg catacacacc taacgttgat atcgaaatgt tatattctta ttatcggaat 60

caatgcagga agcagagcag aacagaacag acagatacta ctgcacacta cctgagcaga 120

aaggctcgat gaggcgctca aagacctccg cacccaggtt gcggcgcaca aattcctcca 180

ccgactcctc acgcccctga 200

<210> 1376
<211> 200
<212> DNA
<213> Lolium multiflorum

<400> 1376

cgttaggtgt gtatgcgggt gacccttcaa agctcagtat gcgggctgcg tttgggaagg 60

tatggagact ggaggagaat ggaggcagta ttattggtgg aaccatcaag gcaattcagg 120

atagaggcaa gaaccccaaa ccgccgaggg atccgtaagt ggagactgca attttctatt 180

tagtcagtta actgttccat 200

<210> 1377
<211> 200
<212> DNA
<213> Lolium multiflorum

<400> 1377

atggaacagt taactgacta aatagaaaat tgcagtctcc acttacggat ccctcggcgg 60

tttggggttc ttgcctctat cctgaattgc cttgatggtt ccaccaataa tactgcctcc 120

attctcctcc agtctccata ccttcccaaa cgcagcccgc atactgagct ttgaagggtc 180

acccgcatac acacctaacg 200

<210> 1378
<211> 200
<212> DNA
<213> Lolium multiflorum

<400> 1378

ttgaaacaac ttgtgacctc tgaccttaga aagctcttgg gtgtagaggg gcagccaact 60

tttgtgagac atatacattg gaaaaatgct tttcctctgt atggccatga ttatgatttg 120

gcattggaag ctataggaaa gatggagaat gatcttccag ggttcttcta tgcaggaaat 180

aacaaggatg gcttggctgt 200

<210> 1379
<211> 200
<212> DNA
<213> Lolium multiflorum

<400> 1379

acagccaagc catccttgtt atttcctgca tagaagaacc ctggaagatc attctccatc 60

tttcctatag cttccaatgc caaatcataa tcatggccat acagaggaaa agcatttttc 120

caatgtatat gtctcacaaa agttggctgc ccctctacac ccaagagctt tctaaggtca 180

gaggtcacaa gttgtttcaa 200

<210> 1380
<211> 200
<212> DNA
<213> Lolium multiflorum

<400> 1380

ttgatattta ttatgcaggt ggattatctg ccgttatccc tcatggtaac agcttttaag 60

aaggaagatg tcaaaagacc cctggaagga tttggggtgt tggtacccta taaggaacag 120

caaaaacatg gtctgaaaac ccttggaacc ctcttctcct ctatgatgtt cccagatcga 180

gctcctaatg accaacactt 200

<210> 1381
<211> 200
<212> DNA
<213> Lolium multiflorum

<400> 1381

aagtgttggt cattaggagc tcgatctggg aacatcatag aggagaagag ggttccaagg 60

gttttcagac catgtttttg ctgttcctta tagggtacca acaccccaaa tccttccagg 120

ggtcttttga catcttcctt cttaaaagct gttaccatga gggataacgg cagataatcc 180

acctgcataa taaatatcaa 200

<210> 1382
<211> 21
<212> DNA
<213> Unknown

<220>
<223> Found in multiple species

<400> 1382

tttgtagcac ctccaatgta g 21

<210> 1383
<211> 21
<212> DNA
<213> Unknown

<220>
<223> Found in multiple species

<400> 1383

tggctatatc tgggaagagg g 21

<210> 1384
<211> 21
<212> DNA
<213> Unknown

<220>
<223> Found in multiple species

<400> 1384

tcttcccaga tatagccatc g 21

<210> 1385
<211> 21
<212> DNA
<213> Unknown

<220>
<223> Found in multiple species

<400> 1385

tacattggag gtgctacaaa t 21

<210> 1386
<211> 21
<212> DNA
<213> Unknown

<220>
<223> Found in multiple species

<400> 1386

gatggctata tctgggaaga g 21

<210> 1387
<211> 21
<212> DNA
<213> Unknown

<220>
<223> Found in multiple species

<400> 1387

cttcccagat atagccatcg g 21

<210> 1388
<211> 21
<212> DNA
<213> Unknown

<220>
<223> Found in multiple species

<400> 1388

ctcttcccag atatagccat c 21

<210> 1389
<211> 21
<212> DNA
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<220>
<223> Found in multiple species

<400> 1389

ctacattgga ggtgctacaa a 21

<210> 1390
<211> 21
<212> DNA
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<220>
<223> Found in multiple species

<400> 1390

cgatggctat atctgggaag a 21

<210> 1391
<211> 21
<212> DNA
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<220>
<223> Found in multiple species

<400> 1391

cctcttccca gatatagcca t 21

<210> 1392
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<212> DNA
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<220>
<223> Found in multiple species

<400> 1392

ccgatggcta tatctgggaa g 21

<210> 1393
<211> 21
<212> DNA
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<220>
<223> Found in multiple species

<400> 1393

ccctcttccc agatatagcc a 21

<210> 1394
<211> 21
<212> DNA
<213> Unknown

<220>
<223> Found in multiple species

<400> 1394

atttgtagca cctccaatgt a 21

<210> 1395
<211> 21
<212> DNA
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<220>
<223> Found in multiple species

<400> 1395

atggctatat ctgggaagag g 21

<210> 1396
<211> 21
<212> DNA
<213> Unknown

<220>
<223> Found in multiple species

<400> 1396

ttttttgatc tcatgagctt t 21

<210> 1397
<211> 21
<212> DNA
<213> Unknown

<220>
<223> Found in multiple species

<400> 1397

ttttgatct catgagcttt c 21

<210> 1398
<211> 21
<212> DNA
<213> Unknown

<220>
<223> Found in multiple species

<400> 1398

ttttgctcta aggtccagac c 21

<210> 1399
<211> 21
<212> DNA
<213> Unknown

<220>
<223> Found in multiple species

<400> 1399

ttttgatctc atgagctttc c 21

<210> 1400
<211> 21
<212> DNA
<213> Unknown

<220>
<223> Found in multiple species

<400> 1400

tttggtccta acagaaaccg g 21

<210> 1401
<211> 21
<212> DNA
<213> Unknown

<220>
<223> Found in multiple species

<400> 1401

tttggccata ctctcactcc c 21

<210> 1402
<211> 21
<212> DNA
<213> Unknown

<220>
<223> Found in multiple species

<400> 1402

tttggattta tcagaatttt t 21

<210> 1403
<211> 21
<212> DNA
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<220>
<223> Found in multiple species

<400> 1403

tttggaaagg tctggacctt a 21

<210> 1404
<211> 21
<212> DNA
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<220>
<223> Found in multiple species

<400> 1404

tttgctctaa ggtccagacc t 21

<210> 1405
<211> 21
<212> DNA
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<220>
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<400> 1405

tttgatctca tgagctttcc t 21

<210> 1406
<211> 21
<212> DNA
<213> Unknown

<220>
<223> Found in multiple species

<400> 1406

tttgagtgta ccggcgatga t 21

<210> 1407
<211> 21
<212> DNA
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<220>
<223> Found in multiple species

<400> 1407

tttgacttta ctgccaagcc t 21

<210> 1408
<211> 21
<212> DNA
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<220>
<223> Found in multiple species

<400> 1408

tttctgttag gaccaaagcg g 21

<210> 1409
<211> 21
<212> DNA
<213> Unknown

<220>
<223> Found in multiple species

<400> 1409

tttctaatat tgataagtcg c 21

<210> 1410
<211> 21
<212> DNA
<213> Unknown

<220>
<223> Found in multiple species

<400> 1410

tttcgcattt ggatttatca g 21

<210> 1411
<211> 21
<212> DNA
<213> Unknown

<220>
<223> Found in multiple species

<400> 1411

tttcctggta agattagggc t 21

<210> 1412
<211> 21
<212> DNA
<213> Unknown

<220>
<223> Found in multiple species

<400> 1412

tttcctaaag gatccaacag t 21

<210> 1413

<211> 21
<212> DNA
<213> Unknown

<220>
<223> Found in multiple species

<400> 1413

tttccaaatg cagctttcat a 21

<210> 1414
<211> 21
<212> DNA
<213> Unknown

<220>
<223> Found in multiple species

<400> 1414

tttcaatcca ctgtcaaccg c 21

<210> 1415
<211> 21
<212> DNA
<213> Unknown

<220>
<223> Found in multiple species

<400> 1415

tttatcagaa tttttctgag a 21

<210> 1416
<211> 21
<212> DNA
<213> Unknown

<220>
<223> Found in multiple species

<400> 1416

tttaggaagg cgggggtctc g 21

<210> 1417
<211> 21
<212> DNA
<213> Unknown

<220>
<223> Found in multiple species

<400> 1417

tttactgcca agcctagcag c 21

<210> 1418
<211> 21
<212> DNA
<213> Unknown

<220>
<223> Found in multiple species

<400> 1418

ttgtagcacc tccaatgtag c 21

<210> 1419
<211> 21
<212> DNA
<213> Unknown

<220>
<223> Found in multiple species

<400> 1419

ttggtcctaa cagaaaccgg t 21

<210> 1420
<211> 21
<212> DNA
<213> Unknown

<220>
<223> Found in multiple species

<400> 1420

ttggccatac tctcactccc a 21

<210> 1421
<211> 21
<212> DNA
<213> Unknown

<220>
<223> Found in multiple species

<400> 1421

ttggcagtaa agtcaaacta t 21

<210> 1422
<211> 21
<212> DNA
<213> Unknown

<220>
<223> Found in multiple species

<400> 1422

ttggatttat cagaattttt c 21

<210> 1423
<211> 21
<212> DNA
<213> Unknown

<220>
<223> Found in multiple species

<400> 1423

ttggaaaggt ctggacctta g 21

<210> 1424
<211> 21
<212> DNA
<213> Unknown

<220>
<223> Found in multiple species

<400> 1424

ttggaaacta ttaggaccct c 21

<210> 1425
<211> 21
<212> DNA
<213> Unknown

<220>
<223> Found in multiple species

<400> 1425

ttgctgctag gcttggcagt a 21

<210> 1426
<211> 21
<212> DNA
<213> Unknown

<220>
<223> Found in multiple species

<400> 1426

ttgctctaag gtccagacct t 21

<210> 1427
<211> 21
<212> DNA
<213> Unknown

<220>
<223> Found in multiple species

<400> 1427

ttgcctttgg ccatactctc a 21

<210> 1428
<211> 21
<212> DNA
<213> Unknown

<220>
<223> Found in multiple species

<400> 1428

ttgcaagtag cctgcttcgt c 21

<210> 1429
<211> 21
<212> DNA
<213> Unknown

<220>
<223> Found in multiple species

<400> 1429

ttgatcttga gctacattgg a 21

<210> 1430
<211> 21
<212> DNA
<213> Unknown

<220>
<223> Found in multiple species

<400> 1430

ttgatctcat gagctttcct g 21

<210> 1431
<211> 21
<212> DNA
<213> Unknown

<220>
<223> Found in multiple species

<400> 1431

ttgataagtc gctcaatggt g 21

<210> 1432
<211> 21
<212> DNA
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<220>
<223> Found in multiple species

<400> 1432

ttgagtgtac cggcgatgat a 21

<210> 1433
<211> 21
<212> DNA
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<220>
<223> Found in multiple species

<400> 1433

ttgagtatga aagctgcatt t 21

<210> 1434
<211> 21
<212> DNA
<213> Unknown

<220>
<223> Found in multiple species

<400> 1434

ttgagctaca ttggaggtgc t 21

<210> 1435
<211> 21
<212> DNA
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<220>
<223> Found in multiple species

<400> 1435

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<210> 1436
<211> 21
<212> DNA
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<220>
<223> Found in multiple species

<400> 1436

ttgactttac tgccaagcct a 21

<210> 1437
<211> 21
<212> DNA
<213> Unknown

<220>
<223> Found in multiple species

<400> 1437

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