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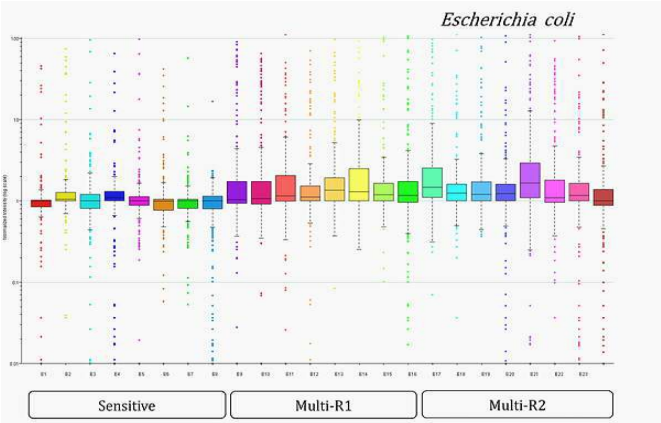
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(54) 발명의 명칭 **항생제 내성균 검출용 마이크로어레이 및 이를 이용한 항생제 내성균 분석 방법**

(57) 요 약

본 발명은 항생제 내성균 검출용 마이크로어레이 및 이를 이용한 항생제 내성균 분석 방법에 관한 것으로, 상세하게는 대표적인 식중독 원인균인 대장균 (Escherichia coli), 살모넬라 엔테리티디스 (Salmonella enteritidis) 및 포도상구균 (Staphylococcus aureus)에서 항생제 내성균을 검출할 수 있는 마이크로어레이 및 이를 이용한 항생제 내성균 분석 방법에 관한 것이다. 본 발명의 마이크로어레이를 이용할 경우, 신속하고 정확하게 항생제 내성균을 검출할 수 있다.

대 표 도 - 도1



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특허청구의 범위

청구항 1

하기에 기재된 유전자에 대한 올리고뉴클레오티드를 집적한 항생제 내성균 검출용 마이크로어레이.

GenBank						
DQ241380.1	JQ345503.1	M93113.1	AEZ38258.1	HQ448867.1	AF540889.1	JN119851.1
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AF453998.2	JN003418.1	HM366563.1	BAG12271.1	HM060540.1	JN003422.1	JN645877.1
EU914098.1	AF245694.1	JN588531.1	AY577724.1	JN625757.1	DQ077487.1	AAK64581.1
JN794060.1	JF414727.1	AF036933.1	GQ422439.1	FR695891.	AF038993.1	AJ605332.1
X75562.1	AB116723.1	AF462019.1	X55652.1	AY587956.1	JN003424.1	CAG34233.2
HQ832476.1	AB119105.1	X60827.1	L06160.1	JN676831.1	EF646764.1	AAA82255.1
HM125689.1	JQ041634.1	CAA83522.1	L06161.1	JQ064560.1	JN003423.1	AY139592.1
JQ345503.1	M94066.1	X15100.1	M88012.1	JF728154.1	HQ399590.1	AF327729.1
FJ670543.1	JF834909.1	M55620.1	HQ248169.1	JQ349157.1	EF646764.1	HQ902143.1
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M13771.1	L12710.1	U09991.1	M20305.1	JF773350.1	AB089603.1	Z86002.1
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U51479.1	L29510.1	AF466411.1	AJ238249.1	FN396367.2	JQ280448.2	Z16422.1
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JF909978.1	AF031332.1	DQ643386.1	AF237667.1	JN970906.1	HQ399623.1	FJ830869.1
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JN676831.1	AB375472.1	AF332662.1	Y11068.1	EF062586.1	AY248842.1	
AJ621265.1	X07848.1	DQ205478.1	HM370522.1	GQ283908.1	AY049746.1	
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JQ345503.1	K00544.1	CT573326.1	AF315786.1	M20370.1	GU990084.1	

청구항 2

제1항에 있어서, 상기 항생제 내성균은 대장균 (Escherichia coli), 살모넬라 엔테리티디스 (Salmonella enteritidis) 또는 포도상구균 (Staphylococcus aureus)에서 유래된 것을 특징으로 하는 항생제 내성균 검출용 마이크로어레이.

청구항 3

제1항에 있어서, 상기 항생제는 아미노글리코사이드 계열, 페니실린 계열, 술폰아미드 계열, 베타-락탐 계열, 클로람페니콜 계열, 에리트로마이신 계열, 플로르페니콜 계열, 포스포마이신 계열, 카나마이신 계열, 린코마이신 계열, 메티실린 계열, 퀴놀론 계열, 스트렙토마이신 계열, 테트라사이클린 계열, 트리메소프림 계열 및 반코마이신 계열로 이루어진 군에서 선택된 어느 하나 이상인 것을 특징으로 하는 항생제 내성균 검출용 마이크로어레이.

청구항 4

제 1항의 마이크로어레이를 포함하는 항생제 내성균 검출용 키트.

청구항 5

(a) 시료에 존재하는 게놈 DNA를 분리하는 단계;

(b) 제 1항에 기재된 유전자에 대한 올리고뉴클레오티드를 집적한 마이크로어레이에 상기 (a) 단계에서 분리한 시료의 게놈 DNA를 혼성화시키는 단계; 및

(c) 상기 (b) 단계의 마이크로어레이 상의 올리고뉴클레오티드와 시료의 게놈 DNA 의 혼성화 정도를 분석하는 단계;를 포함하는 항생제 내성균 검출 방법.

청구항 6

제 5항에 있어서, 상기 항생제 내성균은 대장균 (Escherichia coli), 살모넬라 엔테리티디스 (Salmonella enteritidis) 또는 포도상구균 (Staphylococcus aureus)에서 유래된 것을 특징으로 하는 항생제 내성균 검출 방법.

청구항 7

제 5항에 있어서, 상기 (c) 단계에서 혼성화 정도의 분석은, 상기 마이크로어레이 상의 올리고뉴클레오티드와 시료의 게놈 DNA의 혼성화 정도가 항생제 민감성을 가지는 정상균의 혼성화 정도에 비하여 높을 경우 항생제 내성균으로 판단하는 것을 특징으로 하는, 항생제 내성균 검출 방법.

명 세 서

기 술 분 야

[0001] 본 발명은 항생제 내성균 검출용 마이크로어레이 및 이를 이용한 항생제 내성균 분석 방법에 관한 관한 것으로, 상세하게는 대표적인 식중독 원인균인 대장균 (Escherichia coli), 살모넬라 엔테리티디스 (Salmonella enteritidis) 및 포도상구균 (Staphylococcus aureus)에서 항생제 내성균을 검출할 수 있는 마이크로어레이 및 이를 이용한 항생제 내성균 분석 방법에 관한 것이다.

배 경 기 술

[0002] 항생제는 축산이나 수산업에 있어서 질병에 대하여 예방의 차원 또는 성장촉진을 위해서 사용되거나 치료를 목적으로 빈번히 사용되어 왔다. 그러나 항생제의 과다사용으로 인하여 항생제에 내성을 가진 항생제 내성균의 발생이 증가하고 있을 뿐만 아니라, 상기 항생제 내성균은 축수산 식품을 통하여 사람에게 전파될 수 있으므로 식품 중 존재하는 항생제 내성 식중독균의 지속적인 검사가 요구되고 있다.

[0003] 현재, 항생제 내성균을 검사하기 위한 방법으로 MIC법이나 원판 확산법(Disc diffusion) 등을 이용하여 항생제 내성균의 표현형(phenotype)을 관찰하는 방법이나, PCR검사법을 이용하여 항생제 내성균의 유전자형(genotype)을 확인하는 방법이 사용되고 있다. 그러나 상기 검사 방법은 시료의 양이 증가함에 따라 검사에 소요되는 시간이 산술적으로 증가하는 경향이 있어, 많은 시료를 검사하는 경우 결과를 얻기까지 많은 시간이 필요하다. 또한, 주관적 판단이 필요할 개연성을 가지고 있으며, 검사 기관에 따른 오차의 발생이 가능하다.

[0004] 이에 본 발명자는 상기와 같은 문제점을 극복하고, 빠른 시간 내에 다량의 시료에서 정확하게 항생제 내성균을 검출할 수 있는 방법을 찾기 위해 연구를 계속 하던 중, 식중독 원인균인 대장균 (Escherichia coli), 살모넬라 엔테리티디스 (Salmonella enteritidis) 및 포도상구균 (Staphylococcus aureus)에서 항생제 내성균을 검출할 수 있는 마이크로어레이를 개발함으로써 본 발명을 완성하였다.

선행기술문헌

특허문헌

[0005] (특허문헌 0001) 국내특허출원번호 : 10-2001-0062125

발명의 내용

해결하려는 과제

[0006] 본 발명의 목적은 항생제 내성균 검출용 마이크로어레이를 제공하는데 있다.

[0007] 본 발명의 다른 목적은 상기 마이크로어레이를 포함하는 항생제 내성균 검출 키트를 제공하는데 있다.

[0008] 본 발명의 또 다른 목적은 상기 마이크로어레이를 이용한 항생제 내성균 분석 방법을 제공하는데 있다.

과제의 해결 수단

[0009] 상기 과제를 해결하기 위하여 본 발명은 항생제 내성균 검출용 마이크로어레이를 제공한다.

[0010] 또한 본 발명은 상기 마이크로어레이를 포함하는 항생제 내성균 검출 키트를 제공한다.

[0011] 또한 본 발명은 상기 마이크로어레이를 이용한 항생제 내성균 분석 방법을 제공한다.

발명의 효과

[0012] 본 발명의 마이크로어레이를 이용할 경우, 신속하고 정확하게 항생제 내성균을 검출할 수 있다.

도면의 간단한 설명

[0013] 도 1은 본 발명의 마이크로어레이를 이용하여 항생제 내성 대장균을 분석한 도이다.

도 2는 본 발명의 마이크로어레이를 이용하여 항생제 내성 살모넬라 엔테리티디스를 분석한 도이다.

도 3은 본 발명의 마이크로어레이를 이용하여 항생제 내성 포도상구균을 분석한 도이다.

도 4는 항생제 내성 대장균의 표현형을 유추할 수 있는 프로브를 나타낸 도이다.

도 5는 항생제 내성 살모넬라 엔테리티디스의 표현형을 유추할 수 있는 프로브를 나타낸 도이다.

도 6은 항생제 내성 포도상구균의 표현형을 유추할 수 있는 프로브를 나타낸 도이다.

발명을 실시하기 위한 구체적인 내용

[0014] 이하, 본 발명을 보다 구체적으로 설명한다.

[0015] 본 발명은 일 양태로써, 항생제 내성균 검출용 마이크로어레이를 제공한다.

[0016] 상기 항생제 내성균은 바람직하게는 대장균 (Escherichia coli), 살모넬라 엔테리티디스 (Salmonella enteritidis) 또는 포도상구균 (Staphylococcus aureus)으로부터 유래된 것을 특징으로 한다.

[0017] 상기 항생제는 이에 제한되지는 않으나, 아미노글리코사이드 계열 (아미노글리코사이드, 겐타마이신, 네오마이신 등), 페니실린 계열 (앰피실린 등), 술폰아미드 계열, 베타-락탐 계열 (베타-락탐, 아목시실린/클라불란산 등), 클로람페니콜 계열, 에리트로마이신 계열, 플로르페니콜 계열, 포스포마이신 계열, 카나마이신 계열, 린코마이신 계열, 메티실린 계열, 퀴놀론 계열, 스트렙토마이신 계열, 테트라사이클린 계열, 트리메소프림 계열 및 반코마이신 계열의 항생제를 포함한다.

[0018] 상기 마이크로어레이는 하기 표 1에 기재된 238개의 유전자에 대한 올리고뉴클레오타이드(oligonucleotide) 프로브를 집적한 것을 특징으로 하며, 상기 올리고뉴클레오타이드의 크기는 이에 제한되지 않으나, 바람직하게는 25 내지 70 mer이다.

표 1

[0019]

번호	Gene ID_gv	GenBank	Oligo ID	번호	Gene ID_gv	GenBank	Oligo ID
1	aac(3)-IV_gv	DQ241380.1	Gen-3	121	aphD_gv	Y00459.1	Kan-14
2	aac(3)-IIa (aacC2)_gv	X54723.1	Gen-2	122	linA_gv	M14039.1	Lin-1
3	ant(2")-Ia(aadB)a_gv	AF453998.2	Gen-1	123	linB_gv	AJ238249.1	Lin-2
4	aph(3')-Ia(aphA1)a_gv	EU914098.1	AmiNe-2	124	linF_gv	AJ561197.2	Lin-3
5	blaCTX-M-1_gv	JN794060.1	Amp-1	125	lmrA_gv	X59926.1	Lin-4
6	blaOXA-7_gv	X75562.1	Amp-2	126	lmrB_gv	AF237667.1	Lin-5
7	blaPSE-4_gv	HQ832476.1	Amp-3	127	lnu(C)_gv	AY928180.1	Lin-6
8	blaSHV_gv	HM125689.1	Amp-4	128	mecA_gv	JF778650.1	Met-1
9	sulI_gv	JQ345503.1	Sula-9	129	mecI_gv	JF946501.1	Met-2
10	sulII_gv	FJ670543.1	Sula-10	130	mecRI_gv	AJ810122.1	Met-3
11	blaTEM_gv	HM131426.1	Amp-5	131	mecRI_delta_gv	AF142100.1	Met-4
12	blaCTX-M-1grouph_gv	AB698975.1	Blact-2	132	ampC_gv	EF507685.1	Pen-1
13	aph(2″)-Ia_gv-1	M13771.1	GenNe-1	133	bla OXA_5_gv	AF347074.1	Pen-2
14	aph(2″)-Ia_gv-2	M13771.1	GenNe-2	134	bla_gv(Photobacterium)	AB083415.2	Pen-3
15	aph(2″)-Ib_gv-1	AF337947.1	GenNe-3	135	bla1_gv	AY453161.1	Pen-4
16	aph(2″)-Ib_gv-2	AF337947.1	GenNe-4	136	bla2_gv	AY453162.1	Pen-5
17	aph(2″)-Ic_gv-2	U51479.1	GenNe-6	137	blafox-3_gv	Y11068.1	Pen-6
18	aph(2″)-Ic_gv-1	U51479.1	GenNe-5	138	blages-1_gv	HM370522.1	Pen-7
19	aph(2″)-Id_gv-1	AF016483.1	Gen-4	139	blaIMP-8_gv	EU368856.1	Pen-8
20	aph(2″)-Id_gv-2	AF016483.1	Gen-5	140	blaoxa-35_gv	AF315786.1	Pen-9
21	aph(3″)-III_gv-1	JF909978.1	Gen-6	141	blapse-1_gv	HQ448867.1	Pen-10
22	aph(3″)-III_gv-2	JF909978.1	Gen-7	142	blaROB-1_gv	X52872.1	Pen-11
23	bla1_gv	AY453161.1	Amo_CA-1	143	blaSHV-6_gv	HM060540.1	Pen-12
24	bla1_gv	AY453161.1	Amo_CA-2	144	blaTEM-10_gv	JN625757.1	Pen-13
25	bla2_gv	AY453162.1	Amo_CA-3	145	blaVIM-2_gv	FR695891.	Pen-14
26	bla2_gv	AY453162.1	Amo_CA-4	146	cam1_gv	AY587956.1	Pen-15
27	blaZ_gv	FJ809758.1	Blact-8	147	oxa-1_gv	JN676831.1	Pen-16
28	blaZ_gv	FN435327.1	Blact-9	148	qepA_gv	JQ064560.1	Qui-1
29	blaACC-1_gv	AM939421.1	Blact-1	149	qnrA_gv	JF728154.1	Qui-2

30	blaCTX-M-9groupf_gv	JN676862.1	Blact-4	150	qnrB1_gv	JQ349157.1	Qui-3
31	blaCTX-M-2groupg_gv	FJ660703.1	Blact-3	151	qnrB2_gv	JQ349153.1	Qui-4
32	blaOXA-01,blaOXA-04,blaOXA-30*,blaOXA-31,blaOXA-47_gv	JN676831.1	Blact-5	152	qnrB3_gv	HM125702.1	Qui-5
33	blaPER-1,blaPER-3_gv	AJ621265.1	Blact-6	153	qnrS1_gv	JF773342.1	Qui-6
34	blaPSE-1_gv (=blaCARB-2)*	HQ132377.1	Blact-7	154	qnrS2_gv	JF773350.1	Qui-7
35	sul1_gv-3	JQ345503.1	Sula-6	155	aad_sta_gv	AY604739.2	Str-1
36	sul1_gv-1	JQ345503.1	Sula-4	156	aadA1, ant(3'')_Ia, ant(3'')_Ia(L06163)_gv	JN645874.1	Str-2
37	sul1_gv-2	JQ345503.1	Sula-5	157	aadA11b_gv	DQ074759.1	Str-3
38	sul2_gv	JN003418.1	Sula-7	158	aadA2_gv	FN396367.2	Str-4
39	sulA_gv	AF245694.1	Sula-8	159	aadA4_gv	AM997275.2	Str-5
40	aac(6)_29a_gv	JF414727.1	Agls-1	160	aadB_gv	JF718319.1	Str-6
41	aac(6)_Ia_gv	AB116723.1	Agls-2	161	aadD_gv	JN970906.1	Str-7
42	aac(6)_Iad_gv	AB119105.1	Agls-3	162	aadE_gv	AY626923.1	Str-8
43	aac(6)_Ib_gv	JQ041634.1	Agls-4	163	ant_gv(AJ278607)	AJ278607.2	Str-9
44	aac(6)_Ic_gv	M94066.1	Agls-5	164	sph_gv	AY037297.1	Str-10
45	aac(6)_Ie_gv	JF834909.1	Agls-6	165	strU_gv	X89010.1	Str-11
46	aac(6)_If_gv	X55353.1	Agls-7	166	strV_gv	X89010.1	Str-12
47	aac(6)_Ig_gv	L09246.1	Agls-8	167	strW_gv(AJ862840)	AJ862840.1	Str-13
48	aac(6)_Ih_gv	L29044.1	Agls-9	168	strW_gv(X89010)	X89010.1	Str-14
49	aac(6)_Ii_gv	L12710.1	Agls-10	169	strX_gv	X89010.1	Str-15
50	aac(6)_Iiac_gv	HQ386836.1	Agls-11	170	sul1_gv	JQ639792.1	Sula-1
51	aac(6)_Iib_gv	L06163.1	Agls-12	171	sul2_gv	JN003418.1	Sula-2
52	aac(6)_Ij_gv	L29045.1	Agls-13	172	sul3_gv	EF062586.1	Sula-3
53	aac(6)_Ik_gv	L29510.1	Agls-14	173	tet31_gv	GQ283908.1	Tet-1
54	aac(6)_Ilmq_gv	Z54241.1	Agls-15	174	tet34_gv	AB061440.1	Tet-2
55	aac(6)_Ir_gv	AF031326.1	Agls-16	175	tet347_gv	M20370.1	Tet-3
56	aac(6)_Isux_gv	AF031332.1	Agls-17	176	tet37_gv	AF540889.1	Tet-4
57	aac(6)_It_gv	AF031328.1	Agls-18	177	tet39_gv	AY743590.1	Tet-5
58	aac(6)_Iv_gv	AF031330.1	Agls-19	178	tetA_gv	JN003422.1	Tet-6
59	aac(6)_Iw_gv	AF031331.1	Agls-20	179	tetA(33)_gv	DQ077487.1	Tet-7
60	aac(6)_Iy_gv	AF144881.1	Agls-21	180	tetAJ_gv	AF038993.1	Tet-8
61	aac(6)_Iz_gv	AF140221.1	Agls-22	181	tetB_gv	JN003424.1	Tet-9
62	cat_gv(Bacillus clausii)	AY238971.1	Chl-1	182	tetC1_gv	EF646764.1	Tet-10
63	cat_gv(Proteus mirabilis)	M11587.1	Chl-2	183	tetC2_gv	JN003423.1	Tet-11
64	cat_gv (Staphylococcus aureus plasmi	M58516.1	Chl-3	184	tetD1_gv	HQ399590.1	Tet-12
65	cat_TC_gv	GU808561.1	Chl-4	185	tetD2_gv	EF646764.1	Tet-13
66	cat1_gv	AFH18614.1	Chl-5	186	tetE1_gv	L06940.1	Tet-14
67	cat2_gv	AB375472.1	Chl-6	187	tetE2_gv	DQ366299.1	Tet-15
68	cat3_gv	X07848.1	Chl-7	188	tetG1_gv	HQ399610.1	Tet-16
69	cat4_gv	DQ415371.1	Chl-8	189	tetG2_gv	AB089603.1	Tet-17
70	cat86_gv (Bacillus pumilus)	K00544.1	Chl-9	190	tetH_gv	FR872823.1	Tet-18

71	catB_gv (Clostridium butyricum)	M93113.1	Chl-10	191	tetK_gv	FN435328.1	Tet-19
72	catB1_gv	M58472.1	Chl-11	192	tetL_gv	AY081910.1	Tet-20
73	catB2_gv	HM366563.1	Chl-12	193	tetM1_gv	JQ280448.2	Tet-21
74	catB5_gv	JN588531.1	Chl-13	194	tetM2_gv	GQ221235.1	Tet-22
75	catB7_gv	AF036933.1	Chl-14	195	tetO_gv	HM749330.1	Tet-23
76	catB9_gv	AF462019.1	Chl-15	196	tetP_gv	HQ399623.1	Tet-24
77	catC_gv	X60827.1	Chl-16	197	tetQ_gv	GQ343141.1	Tet-25
78	catC_gv(Lactococcus lactis)	CAA63522.1	Chl-17	198	tetS_gv	DQ295784.1	Tet-26
79	catD_gv	X15100.1	Chl-18	199	tetT_gv	L42544.1	Tet-27
80	catQ_gv (Clostridium perfringens)	M55620.1	Chl-19	200	tetV_gv	AF030344.1	Tet-28
81	catS_gv (Streptococcus pyogenes)	X74948.1	Chl-20	201	tetW_gv	FR838949.1	Tet-29
82	cmlA_gv	JQ639792.1	Chl-21	202	tetX2_gv	M37699.1	Tet-30
83	cmlB_gv	AF034958.3	Chl-22	203	tetX3_gv	AB097942.1	Tet-31
84	cmlv_gv	U09991.1	Chl-23	204	tetY_gv	AB089608.1	Tet-32
85	cmrA_gv	AJ308376.1	Chl-24	205	"dfr21(22,23)"_gv	AY552589.1	Trim-1
86	cmxA_gv	U72640.1	Chl-25	206	dfr1_gv	AJ238350.1	Trim-2
87	ereA_gv	AF466410.1	Ery-1	207	dfr1_gv(staphylococcus sp)	AY248842.1	Trim-3
88	ereB_gv	AF466411.1	Ery-2	208	dfr10_gv	AY049746.1	Trim-4
89	ermA_gv	FN435325.1	Ery-3	209	dfr12_gv	JN108898.1	Trim-5
90	ermB_gv	JN899594.1	Ery-4	210	dfr14, dfr1b_gv	GU990084.1	Trim-6
91	ermCd_gv	DQ643386.1	Ery-5	211	dfr15_gv	JN119851.1	Trim-7
92	ermGT_gv	M64090.1	Ery-6	212	dfr16_gv	FN561628.1	Trim-8
93	ermM_gv	AF019140.1	Ery-7	213	dfr17_gv	JN645877.1	Trim-9
94	ermML_gv	AF462611.1	Ery-8	214	dfr18_gv	AAK64581.1	Trim-10
95	ermQ_gv	L22689.1	Ery-9	215	dfr20_gv	AJ605332.1	Trim-11
96	ermTR_gv	AY355403.1	Ery-10	216	dfr23 _gv(Salmonella typhimurium)	CAG34233.2	Trim-12
97	mefA_gv	FJ667795.1	Ery-11	217	dfr2a_gv	AAA82255.1	Trim-13
98	mefE_gv	FJ788639.1	Ery-12	218	dfr2b_gv	AY139592.1	Trim-14
99	msrB_gv	M81802.1	Ery-13	219	dfr2c_gv	AF327729.1	Trim-15
100	fexA_gv	FN995110.1	Fph-1	220	dfr2d_gv	HQ902143.1	Trim-16
101	flor_gv	HQ380038.1	Fph-2	221	dfr3_gv	J03306.1	Trim-17
102	flor_gv (Klebsiella pneumoniae)	AF332662.1	Fph-3	222	dfr3b_gv	AAN85115.1	Trim-18
103	flor_gv (salmonella)	DQ205478.1	Fph-4	223	dfr5_gv	HQ880285.1	Trim-19
104	pp-cat_gv	D16171.1	Fph-5	224	dfr6_gv	Z86002.1	Trim-20
105	fosA_gv	CT573326.1	Fosf-1	225	dfr7_gv	JN645875.1	Trim-21
106	fosB_gv	AEZ38258.1	Fosf-2	226	dfr8_gv	U09273.1	Trim-22
107	fosC_gv	AAZ14834.1	Fosf-3	227	dfr9_gv	X57730.1	Trim-23
108	fosD_gv	BAG12271.1	Fosf-4	228	dfrB_gv	Z16422.1	Trim-24
109	aac(3)_Ia_gv	AY577724.1	Kan-1	229	tmpR_gv	AF205928.1	Trim-25
110	aac(3)_II_gv	GQ422439.1	Kan-2	230	vanA_gv	JN029954.1	Van-1
111	aac(3)_IIIa_gv	X55652.1	Kan-3	231	vanB_gv	FJ830869.1	Van-2
112	aac(3)_IIIb_gv	L06160.1	Kan-4	232	vanC_gv	AY786180.1	Van-3

113	aac(3)_IIIc_gv	L06161.1	Kan-5	233	vanC2_gv	AB070704.1	Van-4
114	aac(3)_IVa_gv	M88012.1	Kan-6	234	vanD_gv	AY489045.1	Van-5
115	aph(3')_3a_gv	HQ248169.1	Kan-7	235	vanD2_gv	AF175293.1	Van-6
116	aph(3')_7a_gv (Campylobacter jejuni)	M29953.1	Kan-8	236	vanE_gv	ACQ89861.1	Van-7
117	aph(3')_IVa_gv	X03364.1	Kan-10	237	vanG_gv	AF253562.2	Van-8
118	aph1, aph(3')_7a_gv	FN394965.2	Kan-11	238	vanZ_gv	BAK61691.1	Van-9
119	aphA_gv	M20305.1	Kan-12				
120	aphA6_gv	X07753.1	Kan-13				

[0020] 본 발명에서 용어 "프로브"란 상보적인 단일가닥 표적 서열과 조합하여 이중가닥 이중가닥 분자 (혼성체)를 형성하는 단일가닥 핵산 서열을 말한다.

[0021] 본 발명에서 용어 "혼성화"란 핵산의 2개의 상보적 가닥이 조합하여 이중가닥 분자 (혼성체)를 형성하는 과정을 말한다.

[0022] 본 발명에서 용어 “프라이머 (primer)”란 적절한 버퍼 중의 적절한 조건 (예를 들면, 4개의 다른 뉴클레오시드 트리포스페이트 및 DNA, RNA 폴리머라제 또는 역전사 효소와 같은 중합제) 및 적당한 온도 하에서 주형-지시 DNA 합성의 시작점으로서 작용할 수 있는 단일가닥 올리고뉴클레오티드를 말한다. 상기 프라이머의 적절한 길이는 사용 목적에 따라 달라질 수 있으나, 통상 15 내지 70 뉴클레오티드이다. 짧은 프라이머 분자는 일반적으로 주형과 안정한 혼성체를 형성하기 위해서는 더 낮은 온도를 필요로 한다. 프라이머 서열은 주형과 완전하게 상보적일 필요는 없으나, 주형과 혼성화할 정도로 충분히 상보적이어야 한다. 본 발명의 프라이머는 예를 들면, 포스포르아미다이트 고체 지지체 방법과 같은 당 분야에 공지된 방법을 이용하여 화학적으로 합성할 수 있다. 또한, 공지된 방법으로 메틸화, 캡화 등으로 변형시킬 수 있다.

[0023] 본 발명에서 용어 “마이크로어레이”는 기판 상에 폴리뉴클레오티드의 그룹이 높은 밀도로 고정화되어 있는 것으로서, 상기 폴리뉴클레오티드 그룹은 각각 일정한 영역에 고정화되어 있는 마이크로어레이를 의미한다. 이러한 마이크로어레이는 당업계에 잘 알려져 있다. 마이크로어레이에 관하여는 예를 들면, 미국특허 제5,445,934호 및 제5,744,305호에 개시되어 있으며, 이들 특허의 내용은 참조에 의하여 본 명세서에 포함된다. 상기 올리고뉴클레오티드 프로브 또는 올리고뉴클레오티드 프로브 세트에 대하여는 상기한 바와 같다.

[0024] 본 발명의 일 실시예에 따르면, 본 발명의 프로브는 불용성 담체(예, 니트로셀룰로오스 또는 나일론 필터, 유리판, 실리콘 및 플루오로카본 지지체)에 고정화되어, 마이크로어레이를 제조할 수 있다. 마이크로어레이에 있어서, 본 발명의 프로브는 혼성화 어레이 요소(hybridizable arrary element)로서 이용된다. 불용성 담체로의 고정화는 화학적 결합 방법 또는 UV와 같은 공유 결합적 방법에 의해 실시될 수 있다. 본 발명의 구체적인 실시예에 의하면, 상기 혼성화 어레이 요소는 에폭시 화합물 또는 알데히드기를 포함하도록 변형된 유리 표면에 결합될 수 있고, 또한 폴리라이신 코팅 표면에서 UV에 의해 결합될 수 있다. 또한, 상기 혼성화 어레이 요소는 링커(예, 에틸렌 글리콜 올리고머 및 디아민)를 통해 담체에 결합될 수 있다.

[0025] 프로브를 이용하는 경우, 예를 들면 분석 대상 환경에 노출된 항생제 내성균의 mRNA 또는 cDNA와 혼성화시킨다. 본 발명에서, 적합한 혼성화 조건은 최적화 절차에 의하여 결정될 수 있다. 이러한 절차는 연구실에 사용하기 위한 프로토콜을 수립하기 위하여 당업자에 의하여 일련의 과정으로 실시된다. 예를 들어, 온도, 성분의 농도, 혼성화 및 세척 시간, 완충용액 성분 및 이들의 pH 및 이온세기 등의 조건은 프로브의 길이 및 GC 양 및 타겟 뉴클레오타이드 서열 등의 다양한 인자에 의존한다. 혼성화를 위한 상세한 조건은 Joseph Sambrook et al., Molecular Cloning, A Laboratory Manual, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, N.Y.(2001); 및 M.L.M. Anderson, Nucleic acid Hybridization, Springer-Verlag New York Inc. N.Y.(1999)에서 확인할 수 있다. 예를 들어, 상기 엄격조건 중에서 고 엄격조건은 0.5M $NaHPO_4$, 7% SDS(sodium dodecyl sulfate), 1mM EDTA에서 65℃ 조건으로 혼성화하고, 0.1 x SSC(standard saline citrate)/0.1% SDS에서 68℃ 조건으로 세척하는 것을 의미한다. 또는, 고 엄격조건은 6 x SSC/0.05% 소듐 파이로포스페이트에서 48℃ 조건으로 세척하는 것을 의미한다. 저 엄격조건은 예를 들어, 0.2 x SSC/0.1% SDS에서 42℃ 조건으로 세척하는 것을 의미한다.

[0026] 본 발명의 일 실시예에 따르면, 본 발명의 프로브 또는 시료의 이점, 즉 혼성화 특이성이 손상되지 않는 범위 내에서, 본 발명의 프로브 또는 시료를 변형할 수 있다. 이들 변형, 즉 표지는 혼성화 여부를 검출가능하게 하는 시그널을 제공할 수 있으며, 이는 프로브 또는 시료에 연결될 수 있다. 적합한 표지는 형광단(예컨대, 플루오레세인(fluorescein), 피코에리트린(phycoerythrin), 로다민, 리사민(lissamine), 그리고 Cy3과 Cy5(Pharmacia)), 발색단, 화학발광단, 자기입자, 방사능동위원소(P^{32} 및 S^{35}), 매스 표지, 전자밀집입자, 효소(알칼린 포스파타제 또는 호스라디쉬 퍼옥시다제), 조인자, 효소에 대한 기질, 중금속(예, 금) 그리고 항체, 스트렙타비딘, 바이오틴, 디곡시게닌과 킬레이팅기와 같은 특정 결합 파트너를 갖는 헵텐을 포함하나, 이에 한정되는 것은 아니다. 표지는 당업계에서 통상적으로 실시되는 다양한 방법, 예컨대, 닉 트랜스레이션(nick translation) 방법, 무작위 프라이밍 방법(Multiprime DNA labeling systems booklet, "Amersham"(1989)) 및 카이네이션 방법(Maxam & Gilbert, Methods in Enzymology, 65:499(1986))을 통해 실시될 수 있다. 표지는 형광, 방사능, 발생 측정, 중량 측정, X-선 회절 또는 흡수, 자기, 효소적 활성, 매스 분석, 결합 친화도, 혼성화 고주파, 나노크리스탈에 의하여 검출할 수 있는 시그널을 제공한다.

[0027] 프로브와 시료의 혼성화 반응 이후에 혼성화 반응을 통하여 나오는 혼성화 시그널을 검출한다. 혼성화 시그널은 표지의 종류에 따라 다양한 방법으로 실시할 수 있다. 예를 들어, 효소에 의해 표지된 경우, 이 효소의 기질을 혼성화 반응 결과물과 반응시켜 혼성화 여부를 확인할 수 있다. 이용될 수 있는 효소/기질의 조합은, 퍼옥시다제(예, 호스라디쉬 퍼옥시다제)와 클로로나프톨, 아미노에틸카바졸, 디아미노벤지딘, D-루시페린, 루시게닌(비스-N-메틸아크리디늄 니트레이트), 레소루핀 벤질 에테르, 루미놀, 암플렉스 레드 시약(10-아세틸-3, 7-디하이드록시페녹사진), HYR(p-phenylenediamine-HCl and pyrocatechol), TMB(tetramethylbenzidine), ABTS(2,2-Azine-di[3-ethylbenzthiazoline sulfonate]), o-페닐렌디아민(OPD) 및 나프톨/파이로닌; 알칼린 포스파타제와 브로모클로로인돌일 포스페이트(BCIP), 니트로 블루 테트라졸리움(NBT), 나프톨-AS-B1-포스페이트(naphthol-AS-B1-phosphate) 및 ECF 기질; 글로코오스 옥시다제와 t-NBT 및 m-PMS(phenzaine methosulfate) 등이다. 금 입자로 표지된 경우에는 실버 니트레이트를 이용하여 실버 염색 방법으로 검출할 수 있다.

[0028] 시그널의 유무와 세기를 분석함으로써, 항생제 내성 여부 및 특성을 동시에 분석할 수 있다.

[0029] 또 다른 양태로서, 본 발명은 상기 마이크로어레이를 포함하는, 항생제 내성균 검출용 키트를 제공한다.

[0030] 상기 키트는 추가적으로 형광물질을 포함할 수 있으며, 상기 형광물질은 스트렙타비딘-유사 탈인화효소 접합물질(streptavidin-like phosphatease conjugate), 화학형광물질(chemiflurorensce) 및 화학발광물질(chemiluminescent)로 이루어진 군으로부터 선택되는 것이 바람직하나 이에 한정되는 것은 아니다. 또한, 상기 키트는 추가적으로 반응 시약을 포함할 수 있으며, 상기 반응 시약은 혼성화에 사용되는 완충용액, RNA로부터 cDNA를 합성하기 위한 역전사효소, cNTPs 및 rNTP(사전 혼합형 또는 분리 공급형), 형광 염색제의 화학적 유도제와 같은 표식시약, 세척 완충용액 등으로 구성될 수 있으나 이에 한정된 것은 아니며, 당업자에게 알려진 DNA 마이크로어레이 칩의 혼성화 반응에 필요한 반응 시약은 모두 포함할 수 있다.

[0031] 또 다른 양태로서, 본 발명은 (a) 시료에 존재하는 게놈 DNA를 분리하는 단계; (b) 표 1의 유전자에 대한 올리고뉴클레오티드를 집적한 마이크로어레이에 상기 (a) 단계에서 분리한 시료의 게놈 DNA를 혼성화시키는 단계; 및 (c) 상기 (b) 단계의 마이크로어레이 상의 올리고뉴클레오티드와 시료의 게놈 DNA의 혼성화 정도를 분석하는 단계;를 포함하는 항생제 내성균 검출 방법을 제공한다.

[0032] 상기 항생제 내성균은 바람직하게는 대장균 (Escherichia coli), 살모넬라 엔테리티디스 (Salmonella enteritidis) 또는 포도상구균 (Staphylococcus aureus)으로부터 유래된 것을 특징으로 한다.

[0033] 상기 (a) 단계에서 시료는 항생제 내성균이 의심되는 미생물을 포함하는 임의의 시료일 수 있으며, 상기 시료에서 게놈 DNA를 분리하는 방법은 당업계에 통상적으로 이용되는 방법을 이용할 수 있으며, 예를 들면, DNeasy Tissue Kit (QIAGEN,Hilden, Germany)을 이용하여 게놈 DNA를 추출할 수 있다. 또한 상기 시료는 미생물, 세포, 동물 또는 식물의 조직, 동물 또는 식물의 기관, 이들의 체액 등이 포함되며, 이러한 시료의 일례로, 특정 질병 조직, 바이오 마커를 지닌 조직, 미생물 호발 부위 시료 (예, 혈액, 조직, 객담, 뇨, 분변 등), 세포배양을 통해 증식된 시료 또는 자연계의 시료를 모두 포함하는 것일 수 있다. 또한, 상기 시료는 식품으로부터 분리된 것일 수 있다.

[0034] 본 발명의 방법에 있어서, 상기 올리고뉴클레오티드는 검출 가능한 표지 물질로 표지될 수 있다. 상기 표지 물질은 형광, 인광 또는 방사성을 발하는 물질일 수 있으나, 이에 제한되지 않는다.

[0035] 상기 (c) 단계에서 혼성화 정도의 분석은 본 발명의 마이크로어레이 상의 올리고뉴클레오티드와 시료의 게놈 DNA의 혼성화 정도가 항생제 민감성을 가지는 정상균의 혼성화 정도에 비하여 높을 경우, 항생제 내성균으로 판단할 수 있다.

[0036] 이하 본 발명의 이해를 돕기 위하여 바람직한 실시예를 제시한다. 그러나 하기의 실시예는 본 발명을 보다 쉽게 이해하기 위하여 제공되는 것일 뿐, 실시예에 의해 본 발명의 내용이 한정되는 것은 아니다.

[0037] **실시예 1. MIC 검사를 통한 항생제 내성균의 선별**

[0038] 항생제 내성균을 선별하기 위하여, 항생제가 농도별로 코팅된 MIC 플레이트 (Trek diagnostic system, UK)를 이용하였다. 대장균과 살모넬라 엔테리티디스 균주는 KRNVF 플레이트를 이용하였으며, 포도상구균은 EUST 플레이트를 이용하였다.

[0039] 보다 구체적으로는, 일반 증균 LB(Luria-Bertani) 배지에 대장균, 살모넬라 엔테리티디스, 포도상구균을 각각 배양하고, 이를 다시 평판배지에 도말하였다. 평판배지에서 3-5개의 콜로니를 증류수(5ml)에 희석하여 0.5 맥파랜드(McFarland)로 탁도를 조정하였다. 상기 탁도 조정된 균액을 CAMHBT(cation adjusted Mueller-Hinton broth with TES)에 접종하고, 1-5 x 10^5 CFU/ml로 조정하여 검사에 이용하였다. 상기 조정한 접종액 50㎕씩을 MIC 플레이트에 분주하고 하기 표 2의 조건으로 배양하였다.

표 2

[0040]

Strains	Panel	Final inoculum	Broth (11ml)	Incubation conditions	Sealing	*Incubator hours*
대장균 *(E. coli)*, 살모넬라 엔테리티디스 (Salmonella enteritidis)	*KRNVF*	5x10^5 cfu/ml	MHB	35℃, O_2	adhesive seal	18-24h
포도상구균 *(S.aureus)*	*EUST*	1x10^5 cfu/ml	MHB	35℃, O_2	adhesive seal	18-24h

[0041] KRNVF 플레이트는 Autoreader(Trek Diagnostic system, UK)를 이용하였으며, EUST 플레이트는 육안으로 판독하였다. 항생제 내성과 감수성의 구분점(breakpoint)은 CLSI (Clinical Laboratory Standard Institute, 2010) 기준에 따라 판정하였으며, CLSI에 명시되지 않은 항생제의 구분점은 DANMAP (The Danish Integrated Antimicrobial Resistance Monitoring and Research Programme, 2007) 및 NARMS (National Antimicrobial Resistance Monitoring System, 2007)의 정해진 기준에 따라 판정하였다.

[0042] 각 균주별로 이용된 항생제는 표 3 내지 5에 나타내었다.

표 3

[0043] **대장균에서 항생제 내성균 판별을 위한 항생제 종류**

No.	항생제	No.	항생제
1	Gentamicin	9	Ceftiofur
2	Neomycin	10	Cephalothin
3	Streptomycin	11	Ciprofloxacin
4	Chloramphenicol	12	Colistin
5	Florfenicol	13	Nalidixic Acid
6	Amoxicillin/ Clavulanic Acid	14	Tetracycline
7	Ampicillin	15	Trimethoprim/ Sulphamethoxazole

8	Cefoxitin	

표 4

[0044] 살모넬라 엔테리티디스에서 항생제 내성균 판별을 위한 항생제 종류

No.	항생제	No.	항생제
1	Amoxicillin/ Clavulanic Acid	9	Florfenicol
2	Ampicillin	10	Gentamicin
3	Cefoxitin	11	Nalidixic Acid
4	Ceftiofur	12	Neomycin
5	Cephalothin	13	Streptomycin
6	Chloramphenicol	14	Tetracycline
7	Ciprofloxacin	15	Trimethoprim/ Sulphamethoxazole
8	Colistin		

표 5

[0045] 포도상구균에서 항생제 내성균 판별을 위한 항생제 종류

No.	항생제	No.	항생제
1	Streptomycin	11	Chloramphenicol
2	Kanamycin	12	Quinupristin-dalfopristin
3	Gentamicin	13	Vancomycin
4	Trimethoprim	14	Erythromycin
5	Sulfamethoxazol	15	Ciprofloxacin
6	Clindamycin	16	Cefoxitin
7	Tetracycline	17	Linezolid
8	Rifampin	18	Mupirocin
9	Fusidate		
10	Penicillin		

[0046] 대장균, 살모넬라 엔테리티디스, 포도상구균의 항생제 내성 여부를 판단하기 위한 MIC 결과를 하기 표 6 내지 8에 나타내었다. (S: sensitive, R: Resistance)

표 6

[0047] 대장균에서 항생제 내성 MIC 결과

No.	E1	E2	E3	E4	E5	E6	E7	E8	E9	E10	E11	E12	E13	E14	E15	E16	E17	E18	E19	E20	E21	E22	E23	E24
Gentamicin	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	R	S	S	R	R	R	R	R
Neomycin	S	S	S	S	S	S	S	S	R	R	R	S	S	R	R	S	R	S	S	R	R	S	R	R
Streptomycin	S	S	S	S	S	S	S	S	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Chloramphenicol	S	S	S	S	S	S	S	S	R	R	R	R	R	R	R	R	R	S	S	R	S	R	R	R
Florfenicol	S	S	S	S	S	S	S	S	R	R	R	R	R	S	R	S	R	S	S	R	S	S	R	R
Amoxicillin/ Clavulanic Acid	S	S	S	S	S	S	S	S	S	S	S	S	S	S	R	S	S	R	R	S	S	R	S	S
Ampicillin	S	S	S	S	S	S	S	S	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Cefoxitin	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	R	R	R	S	S	R	S	S

Ceftiofur	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	R	R	S	R	R	S	R
Cephalothin	S	S	S	S	S	S	S	S	S	S	S	S	S	S	R	S	R	R	R	S	R	R	S	R
Ciprofloxacin	S	S	S	S	S	S	S	S	S	S	S	S	R	R	S	R	R	R	R	R	R	R	R	R
Colistin	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
Nalidixic Acid	S	S	S	S	S	S	S	S	S	S	R	R	R	R	S	R	R	R	R	R	R	R	R	R
Tetracycline	S	S	S	S	S	S	S	S	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Trimethoprim/ Sulphamethoxazole	S	S	S	S	S	S	S	S	R	R	R	R	R	R	S	R	R	R	R	R	R	R	R	R

표 7

[0048] 살모넬라 엔테리티디스에서 항생제 내성 MIC 결과

No.	Sa1	Sa2	Sa3	Sa4	Sa5	Sa6	Sa7	Sa8	Sa9	Sa10	Sa11	Sa12	Sa13	Sa14	Sa15	Sa16	Sa17	Sa18	Sa19	Sa20	Sa21	Sa22	Sa23	Sa24
Amoxicillin/ Clavulanic Acid	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
Ampicillin	S	S	S	S	S	S	S	S	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Cefoxitin	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
Ceftiofur	S	S	S	S	S	S	S	S	S	S	S	S	S	R	S	R	R	R	R	R	R	R	R	R
Cephalothin	S	S	S	S	S	S	S	S	S	S	S	S	S	R	S	R	R	R	R	R	R	R	R	R
Chloramphenicol	S	S	S	S	S	S	S	S	R	R	R	R	R	S	R	S	R	S	S	S	S	S	S	S
Ciprofloxacin	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
Colistin	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
Florfenicol	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
Gentamicin	S	S	S	S	S	S	S	S	S	S	S	S	S	R	S	R	R	R	R	R	R	R	R	R
Nalidixic Acid	S	S	S	S	S	S	S	R	R	S	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Neomycin	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	R	R	R	R	R	R	S	R
Streptomycin	S	S	S	S	S	S	S	S	R	R	R	R	R	S	R	S	R	R	R	R	R	R	S	R
Tetracycline	S	S	S	S	S	S	S	S	S	R	S	S	S	S	S	S	R	R	R	R	R	R	S	R
Trimethoprim/ Sulphamethoxazole	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S

표 8

[0049] **포도상구균에서 항생제 내성 MIC 결과**

No.	St 1	St 2	St 3	St 4	St 5	St 6	St 7	St 8	St 9	St 10	St 11	St 12	St 13	St 14	St 15	St 16	St 17	St 18	St 19	St 20	St 21	St 22	St 23	St 24
Streptomycin	S	S	S	S	S	S	S	S	R	S	S	S	S	S	R	R	S	R	R	R	R	R	R	R
Kanamycin	S	S	S	S	S	S	S	S	R	S	S	S	S	R	S	S	R	R	R	R	R	R	S	S
Gentamicin	S	S	S	S	S	S	S	S	R	S	S	S	S	R	S	S	R	R	S	R	R	R	S	S
Trimethoprim	S	S	S	S	S	S	S	S	S	S	S	R	S	S	S	S	S	R	S	R	S	R	S	S
Sulfamethoxazol	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
Clindamycin	S	S	S	S	S	S	S	S	S	R	S	R	R	S	R	R	R	R	R	R	R	R	R	R
Tetracycline	S	S	S	S	S	S	S	S	S	S	S	S	S	R	R	R	S	R	R	S	R	R	R	R
Rifampin	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
Fusidate	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
Penicillin	S	S	S	S	S	S	S	S	S	S	R	R	S	S	S	S	R	R	R	R	R	R	R	R
Chloramphenicol	S	S	S	S	S	S	S	S	S	R	S	S	R	S	S	S	R	R	R	R	R	S	S	S
Quinupristin / dalfopristin	S	S	S	S	S	S	S	S	S	R	S	S	R	S	S	S	S	S	R	R	S	R	R	R
Vancomycin	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
Erythromycin	S	S	S	S	S	S	S	S	S	R	R	S	R	S	R	R	R	R	R	R	S	R	R	R
Ciprofloxacin	S	S	S	S	S	S	S	S	S	S	S	S	S	S	R	R	S	S	S	R	S	R	R	R
Cefoxitin	S	S	S	S	S	S	S	S	S	S	R	S	S	S	S	S	S	S	S	S	S	S	S	S
Linezolid	S	S	S	S	S	S	S	S	S	S	S	S	S	R	S	S	R	S	S	S	S	S	S	S
Mupirocin	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S

[0050] 상기 판독 결과를 바탕으로, 각 대장균, 살모넬라 엔테리티디스 또는 포도상구균마다 내성을 가지는 항생제의 수를 기준으로 Sensitive, Multi-R1, Multi-R2로 그룹화 하여 향후 실험에 이용하였다.

[0051] 대장균의 경우, 항생제에 대해 저항성을 내지 않는 균주를 Sensitive군, 항생제 7~8종에 대해 내성을 나타내는 균주를 Multi-R1군, 항생제 10~12종 이상에 대해 내성을 나타내는 균주를 Multi-R2군으로 나누었다. 살모넬라 엔테리티디스의 경우, 항생제에 대해 저항성을 내지 않는 균주를 Sensitive군, 항생제 4종에 대해 내성을 나타내는 균주를 Multi-R1군, 항생제 5~9종 이상에 대해 내성을 나타내는 균주를 Multi-R2군으로 나누었다. 포도상구균의 경우 항생제에 대해 저항성을 내지 않는 균주를 Sensitive군, 항생제 3~5종에 대해 내성을 나타내는 균주를 Multi-R1군, 항생제 7~10종 이상에 대해 내성을 나타내는 균주를 Multi-R2군으로 나누었다.

[0052] **실시예 2. 마이크로어레이 플레이트의 제작**

[0053] 상기 실시예 1의 결과를 바탕으로, 상기 표 1에 개시된 바와 같이, 총 238개의 항생제 내성 유전자를 선별하였다. 상기 항생제 내성 유전자에 대하여 각각 25 내지 70 mer 크기의 올리고뉴클레오타이드 프로브를 디자인하였다. 한 개의 유전자에 대해 약 10개 내외씩 올리고뉴클레오타이드 프로브를 제작하였다. 구체적인 프로브 서열은 하기 표 9 내지 22에 나타내었다.

표 9

[0054]

서열번호	TargetID	BPStart	프로브 명칭	염기서열
서열번호 1	Agls-1	1	Agls-1_1	ATTGAGCAGTACTTCTCTGGTGGACTTGAGGGGCTTGTAGAAGTGCTCATCGCCCGTGAT

서열번호 2	Agls-1	2	Agls-1_2	TTGAGCAGTACTTCTCTGGTGGACTTGAGGGGCTTGTAGAAGTGCTCATCGCCCGTGATG
서열번호 3	Agls-1	3	Agls-1_3	TGAGCAGTACTTCTCTGGTGGACTTGAGGGGCTTGTAGAAGTGCTCATCGCCCGTGATGC
서열번호 4	Agls-1	4	Agls-1_4	GAGCAGTACTTCTCTGGTGGACTTGAGGGGCTTGTAGAAGTGCTCATCGCCCGTGATGCT
서열번호 5	Agls-1	5	Agls-1_5	AGCAGTACTTCTCTGGTGGACTTGAGGGGCTTGTAGAAGTGCTCATCGCCCGTGATGCTA
서열번호 6	Agls-1	6	Agls-1_6	GCAGTACTTCTCTGGTGGACTTGAGGGGCTTGTAGAAGTGCTCATCGCCCGTGATGCTAC
서열번호 7	Agls-1	7	Agls-1_7	CAGTACTTCTCTGGTGGACTTGAGGGGCTTGTAGAAGTGCTCATCGCCCGTGATGCTACC
서열번호 8	Agls-1	8	Agls-1_8	AGTACTTCTCTGGTGGACTTGAGGGGCTTGTAGAAGTGCTCATCGCCCGTGATGCTACCG
서열번호 9	Agls-1	9	Agls-1_9	GTACTTCTCTGGTGGACTTGAGGGGCTTGTAGAAGTGCTCATCGCCCGTGATGCTACCGG
서열번호 10	Agls-1	10	Agls-1_10	TACTTCTCTGGTGGACTTGAGGGGCTTGTAGAAGTGCTCATCGCCCGTGATGCTACCGGC
서열번호 11	Agls-1	11	Agls-1_11	ACTTCTCTGGTGGACTTGAGGGGCTTGTAGAAGTGCTCATCGCCCGTGATGCTACCGGCG
서열번호 12	Agls-2	1	Agls-2_1	TTGGCTGGATAGGCTTAAGGCCAATGTACAAGGAAACCTGGGAATTGCATCCATTGGTTG
서열번호 13	Agls-2	2	Agls-2_2	TGGCTGGATAGGCTTAAGGCCAATGTACAAGGAAACCTGGGAATTGCATCCATTGGTTGT
서열번호 14	Agls-2	3	Agls-2_3	GGCTGGATAGGCTTAAGGCCAATGTACAAGGAAACCTGGGAATTGCATCCATTGGTTGTC
서열번호 15	Agls-2	4	Agls-2_4	GCTGGATAGGCTTAAGGCCAATGTACAAGGAAACCTGGGAATTGCATCCATTGGTTGTCA
서열번호 16	Agls-2	5	Agls-2_5	CTGGATAGGCTTAAGGCCAATGTACAAGGAAACCTGGGAATTGCATCCATTGGTTGTCAG
서열번호 17	Agls-2	6	Agls-2_6	TGGATAGGCTTAAGGCCAATGTACAAGGAAACCTGGGAATTGCATCCATTGGTTGTCAGA
서열번호 18	Agls-2	7	Agls-2_7	GGATAGGCTTAAGGCCAATGTACAAGGAAACCTGGGAATTGCATCCATTGGTTGTCAGAC
서열번호 19	Agls-2	8	Agls-2_8	GATAGGCTTAAGGCCAATGTACAAGGAAACCTGGGAATTGCATCCATTGGTTGTCAGACC
서열번호 20	Agls-2	9	Agls-2_9	ATAGGCTTAAGGCCAATGTACAAGGAAACCTGGGAATTGCATCCATTGGTTGTCAGACCA
서열번호 21	Agls-2	10	Agls-2_10	TAGGCTTAAGGCCAATGTACAAGGAAACCTGGGAATTGCATCCATTGGTTGTCAGACCAG
서열번호 22	Agls-2	11	Agls-2_11	AGGCTTAAGGCCAATGTACAAGGAAACCTGGGAATTGCATCCATTGGTTGTCAGACCAGA
서열번호 23	Agls-3	1	Agls-3_1	TTTGTCGAGAAAGAATTTCGTCACAGAGGATACGCGAGCGAACTATTGTTAAAATGCGAA
서열번호 24	Agls-3	2	Agls-3_2	TTGTCGAGAAAGAATTTCGTCACAGAGGATACGCGAGCGAACTATTGTTAAAATGCGAAG
서열번호 25	Agls-3	3	Agls-3_3	TGTCGAGAAAGAATTTCGTCACAGAGGATACGCGAGCGAACTATTGTTAAAATGCGAAGA
서열번호 26	Agls-3	4	Agls-3_4	GTCGAGAAAGAATTTCGTCACAGAGGATACGCGAGCGAACTATTGTTAAAATGCGAAGAT
서열번호 27	Agls-3	5	Agls-3_5	TCGAGAAAGAATTTCGTCACAGAGGATACGCGAGCGAACTATTGTTAAAATGCGAAGATT
서열번호 28	Agls-3	6	Agls-3_6	CGAGAAAGAATTTCGTCACAGAGGATACGCGAGCGAACTATTGTTAAAATGCGAAGATTG
서열번호 29	Agls-3	7	Agls-3_7	GAGAAAGAATTTCGTCACAGAGGATACGCGAGCGAACTATTGTTAAAATGCGAAGATTGG
서열번호 30	Agls-3	8	Agls-3_8	AGAAAGAATTTCGTCACAGAGGATACGCGAGCGAACTATTGTTAAAATGCGAAGATTGGG
서열번호 31	Agls-3	9	Agls-3_9	GAAAGAATTTCGTCACAGAGGATACGCGAGCGAACTATTGTTAAAATGCGAAGATTGGGT
서열번호 32	Agls-3	10	Agls-3_10	AAAGAATTTCGTCACAGAGGATACGCGAGCGAACTATTGTTAAAATGCGAAGATTGGGTG
서열번호 33	Agls-3	11	Agls-3_11	AAGAATTTCGTCACAGAGGATACGCGAGCGAACTATTGTTAAAATGCGAAGATTGGGTGA

서열번호 34	Agls-4	1	Agls-4_1	AAGAGTCCGTCACTCCATACATTGCAATGCTGAATGGAGAGCCGATTGGGTATG CCCAGT
서열번호 35	Agls-4	2	Agls-4_2	AGAGTCCGTCACTCCATACATTGCAATGCTGAATGGAGAGCCGATTGGGTATGC CCAGTC
서열번호 36	Agls-4	3	Agls-4_3	GAGTCCGTCACTCCATACATTGCAATGCTGAATGGAGAGCCGATTGGGTATGCC CAGTCG
서열번호 37	Agls-4	4	Agls-4_4	AGTCCGTCACTCCATACATTGCAATGCTGAATGGAGAGCCGATTGGGTATGCCC AGTCGT
서열번호 38	Agls-4	5	Agls-4_5	GTCCGTCACTCCATACATTGCAATGCTGAATGGAGAGCCGATTGGGTATGCCCA GTCGTA
서열번호 39	Agls-4	6	Agls-4_6	TCCGTCACTCCATACATTGCAATGCTGAATGGAGAGCCGATTGGGTATGCCCAG TCGTAC
서열번호 40	Agls-4	7	Agls-4_7	CCGTCACTCCATACATTGCAATGCTGAATGGAGAGCCGATTGGGTATGCCCAGT CGTACG
서열번호 41	Agls-4	8	Agls-4_8	CGTCACTCCATACATTGCAATGCTGAATGGAGAGCCGATTGGGTATGCCCAGTC GTACGT
서열번호 42	Agls-4	9	Agls-4_9	GTCACTCCATACATTGCAATGCTGAATGGAGAGCCGATTGGGTATGCCCAGTCG TACGTT
서열번호 43	Agls-4	10	Agls-4_10	TCACTCCATACATTGCAATGCTGAATGGAGAGCCGATTGGGTATGCCCAGTCGT ACGTTG
서열번호 44	Agls-4	11	Agls-4_11	CACTCCATACATTGCAATGCTGAATGGAGAGCCGATTGGGTATGCCCAGTCGTA CGTTGC
서열번호 45	Agls-5	1	Agls-5_1	TCGTTGCCTTTGCCGAGGTCGCGCTGCGCTACGATTACGTCAACGGCTGCGAAT CGTCGC
서열번호 46	Agls-5	2	Agls-5_2	CGTTGCCTTTGCCGAGGTCGCGCTGCGCTACGATTACGTCAACGGCTGCGAATC GTCGCC
서열번호 47	Agls-5	3	Agls-5_3	GTTGCCTTTGCCGAGGTCGCGCTGCGCTACGATTACGTCAACGGCTGCGAATCG TCGCCG
서열번호 48	Agls-5	4	Agls-5_4	TTGCCTTTGCCGAGGTCGCGCTGCGCTACGATTACGTCAACGGCTGCGAATCGT CGCCGG
서열번호 49	Agls-5	5	Agls-5_5	TGCCTTTGCCGAGGTCGCGCTGCGCTACGATTACGTCAACGGCTGCGAATCGTC GCCGGT
서열번호 50	Agls-5	6	Agls-5_6	GCCTTTGCCGAGGTCGCGCTGCGCTACGATTACGTCAACGGCTGCGAATCGTCG CCGGTG
서열번호 51	Agls-5	7	Agls-5_7	CCTTTGCCGAGGTCGCGCTGCGCTACGATTACGTCAACGGCTGCGAATCGTCGC CGGTGG
서열번호 52	Agls-5	8	Agls-5_8	CTTTGCCGAGGTCGCGCTGCGCTACGATTACGTCAACGGCTGCGAATCGTCGCC GGTGGC
서열번호 53	Agls-5	9	Agls-5_9	TTTGCCGAGGTCGCGCTGCGCTACGATTACGTCAACGGCTGCGAATCGTCGCCG GTGGCG
서열번호 54	Agls-5	10	Agls-5_10	TTGCCGAGGTCGCGCTGCGCTACGATTACGTCAACGGCTGCGAATCGTCGCCGG TGGCGT
서열번호 55	Agls-5	11	Agls-5_11	TGCCGAGGTCGCGCTGCGCTACGATTACGTCAACGGCTGCGAATCGTCGCCGGT GGCGTT
서열번호 56	Agls-6	1	Agls-6_1	CTGATGAGATAGTCTATGGTATGGATCAATTTATAGGAGAGCCAAATTATTGGA GTAAAG
서열번호 57	Agls-6	2	Agls-6_2	TGATGAGATAGTCTATGGTATGGATCAATTTATAGGAGAGCCAAATTATTGGAG TAAAGG
서열번호 58	Agls-6	3	Agls-6_3	GATGAGATAGTCTATGGTATGGATCAATTTATAGGAGAGCCAAATTATTGGAGT AAAGGA
서열번호 59	Agls-6	4	Agls-6_4	ATGAGATAGTCTATGGTATGGATCAATTTATAGGAGAGCCAAATTATTGGAGTA AAGGAA
서열번호 60	Agls-6	5	Agls-6_5	TGAGATAGTCTATGGTATGGATCAATTTATAGGAGAGCCAAATTATTGGAGTAA AGGAAT
서열번호 61	Agls-6	6	Agls-6_6	GAGATAGTCTATGGTATGGATCAATTTATAGGAGAGCCAAATTATTGGAGTAAA GGAATT
서열번호 62	Agls-6	7	Agls-6_7	AGATAGTCTATGGTATGGATCAATTTATAGGAGAGCCAAATTATTGGAGTAAAG GAATTG
서열번호 63	Agls-6	8	Agls-6_8	GATAGTCTATGGTATGGATCAATTTATAGGAGAGCCAAATTATTGGAGTAAAGG AATTGG
서열번호 64	Agls-6	9	Agls-6_9	ATAGTCTATGGTATGGATCAATTTATAGGAGAGCCAAATTATTGGAGTAAAGGA ATTGGT
서열번호 65	Agls-6	10	Agls-6_10	TAGTCTATGGTATGGATCAATTTATAGGAGAGCCAAATTATTGGAGTAAAGGAA TTGGTA

서열번호 66	Agls-6	11	Agls-6_11	AGTCTATGGTATGGATCAATTTATAGGAGAGCCAAATTATTGGAGTAAAGGAATTGGTAC
서열번호 67	Agls-7	1	Agls-7_1	TTGCAGCCGTACAGGATTGGGGAGTGGCGAAAGGTTGCACCGAGATGGCAAGCGATGCGG
서열번호 68	Agls-7	2	Agls-7_2	TGCAGCCGTACAGGATTGGGGAGTGGCGAAAGGTTGCACCGAGATGGCAAGCGATGCGGC
서열번호 69	Agls-7	3	Agls-7_3	GCAGCCGTACAGGATTGGGGAGTGGCGAAAGGTTGCACCGAGATGGCAAGCGATGCGGCT
서열번호 70	Agls-7	4	Agls-7_4	CAGCCGTACAGGATTGGGGAGTGGCGAAAGGTTGCACCGAGATGGCAAGCGATGCGGCTT
서열번호 71	Agls-7	5	Agls-7_5	AGCCGTACAGGATTGGGGAGTGGCGAAAGGTTGCACCGAGATGGCAAGCGATGCGGCTTT
서열번호 72	Agls-7	6	Agls-7_6	GCCGTACAGGATTGGGGAGTGGCGAAAGGTTGCACCGAGATGGCAAGCGATGCGGCTTTA
서열번호 73	Agls-7	7	Agls-7_7	CCGTACAGGATTGGGGAGTGGCGAAAGGTTGCACCGAGATGGCAAGCGATGCGGCTTTAG
서열번호 74	Agls-7	8	Agls-7_8	CGTACAGGATTGGGGAGTGGCGAAAGGTTGCACCGAGATGGCAAGCGATGCGGCTTTAGA
서열번호 75	Agls-7	9	Agls-7_9	GTACAGGATTGGGGAGTGGCGAAAGGTTGCACCGAGATGGCAAGCGATGCGGCTTTAGAT
서열번호 76	Agls-7	10	Agls-7_10	TACAGGATTGGGGAGTGGCGAAAGGTTGCACCGAGATGGCAAGCGATGCGGCTTTAGATA
서열번호 77	Agls-7	11	Agls-7_11	ACAGGATTGGGGAGTGGCGAAAGGTTGCACCGAGATGGCAAGCGATGCGGCTTTAGATAA
서열번호 78	Agls-8	1	Agls-8_1	GGCGTTGCAACGATGCTTATTCGACAGGCCGAAGTGTGGGCAAAACAATTTTCTTGCACT
서열번호 79	Agls-8	2	Agls-8_2	GCGTTGCAACGATGCTTATTCGACAGGCCGAAGTGTGGGCAAAACAATTTTCTTGCACTG
서열번호 80	Agls-8	3	Agls-8_3	CGTTGCAACGATGCTTATTCGACAGGCCGAAGTGTGGGCAAAACAATTTTCTTGCACTGA
서열번호 81	Agls-8	4	Agls-8_4	GTTGCAACGATGCTTATTCGACAGGCCGAAGTGTGGGCAAAACAATTTTCTTGCACTGAA
서열번호 82	Agls-8	5	Agls-8_5	TTGCAACGATGCTTATTCGACAGGCCGAAGTGTGGGCAAAACAATTTTCTTGCACTGAAT
서열번호 83	Agls-8	6	Agls-8_6	TGCAACGATGCTTATTCGACAGGCCGAAGTGTGGGCAAAACAATTTTCTTGCACTGAATT
서열번호 84	Agls-8	7	Agls-8_7	GCAACGATGCTTATTCGACAGGCCGAAGTGTGGGCAAAACAATTTTCTTGCACTGAATTT
서열번호 85	Agls-8	8	Agls-8_8	CAACGATGCTTATTCGACAGGCCGAAGTGTGGGCAAAACAATTTTCTTGCACTGAATTTG
서열번호 86	Agls-8	9	Agls-8_9	AACGATGCTTATTCGACAGGCCGAAGTGTGGGCAAAACAATTTTCTTGCACTGAATTTGC
서열번호 87	Agls-8	10	Agls-8_10	ACGATGCTTATTCGACAGGCCGAAGTGTGGGCAAAACAATTTTCTTGCACTGAATTTGCA
서열번호 88	Agls-8	11	Agls-8_11	CGATGCTTATTCGACAGGCCGAAGTGTGGGCAAAACAATTTTCTTGCACTGAATTTGCAT
서열번호 89	Agls-9	1	Agls-9_1	CTTTGGCCTGATCATGAAGATGTGCATTTACAGGAAATGCGCCAACTGATCACACAGGCA
서열번호 90	Agls-9	2	Agls-9_2	TTTGGCCTGATCATGAAGATGTGCATTTACAGGAAATGCGCCAACTGATCACACAGGCAC
서열번호 91	Agls-9	3	Agls-9_3	TTGGCCTGATCATGAAGATGTGCATTTACAGGAAATGCGCCAACTGATCACACAGGCACA
서열번호 92	Agls-9	4	Agls-9_4	TGGCCTGATCATGAAGATGTGCATTTACAGGAAATGCGCCAACTGATCACACAGGCACAT
서열번호 93	Agls-9	5	Agls-9_5	GGCCTGATCATGAAGATGTGCATTTACAGGAAATGCGCCAACTGATCACACAGGCACATC
서열번호 94	Agls-9	6	Agls-9_6	GCCTGATCATGAAGATGTGCATTTACAGGAAATGCGCCAACTGATCACACAGGCACATCG
서열번호 95	Agls-9	7	Agls-9_7	CCTGATCATGAAGATGTGCATTTACAGGAAATGCGCCAACTGATCACACAGGCACATCGT
서열번호 96	Agls-9	8	Agls-9_8	CTGATCATGAAGATGTGCATTTACAGGAAATGCGCCAACTGATCACACAGGCACATCGTT
서열번호 97	Agls-9	9	Agls-9_9	TGATCATGAAGATGTGCATTTACAGGAAATGCGCCAACTGATCACACAGGCACATCGTTT

서열번호 98	Agls-9	10	Agls-9_10	GATCATGAAGATGTGCATTTACAGGAAATGCGCCAACTGATCACACAGGCACATCGTTTA
서열번호 99	Agls-9	11	Agls-9_11	ATCATGAAGATGTGCATTTACAGGAAATGCGCCAACTGATCACACAGGCACATCGTTTAC
서열번호 100	Agls-10	1	Agls-10_1	AACGAATCGCGGTAGCAGCGGTAGACCAAGATGAGTTAGTAGGATTTATTGGTGCAATCC
서열번호 101	Agls-10	2	Agls-10_2	ACGAATCGCGGTAGCAGCGGTAGACCAAGATGAGTTAGTAGGATTTATTGGTGCAATCCC
서열번호 102	Agls-10	3	Agls-10_3	CGAATCGCGGTAGCAGCGGTAGACCAAGATGAGTTAGTAGGATTTATTGGTGCAATCCCT
서열번호 103	Agls-10	4	Agls-10_4	GAATCGCGGTAGCAGCGGTAGACCAAGATGAGTTAGTAGGATTTATTGGTGCAATCCCTC
서열번호 104	Agls-10	5	Agls-10_5	AATCGCGGTAGCAGCGGTAGACCAAGATGAGTTAGTAGGATTTATTGGTGCAATCCCTCA
서열번호 105	Agls-10	6	Agls-10_6	ATCGCGGTAGCAGCGGTAGACCAAGATGAGTTAGTAGGATTTATTGGTGCAATCCCTCAA
서열번호 106	Agls-10	7	Agls-10_7	TCGCGGTAGCAGCGGTAGACCAAGATGAGTTAGTAGGATTTATTGGTGCAATCCCTCAAT
서열번호 107	Agls-10	8	Agls-10_8	CGCGGTAGCAGCGGTAGACCAAGATGAGTTAGTAGGATTTATTGGTGCAATCCCTCAATA
서열번호 108	Agls-10	9	Agls-10_9	GCGGTAGCAGCGGTAGACCAAGATGAGTTAGTAGGATTTATTGGTGCAATCCCTCAATAC
서열번호 109	Agls-10	10	Agls-10_10	CGGTAGCAGCGGTAGACCAAGATGAGTTAGTAGGATTTATTGGTGCAATCCCTCAATACG
서열번호 110	Agls-10	11	Agls-10_11	GGTAGCAGCGGTAGACCAAGATGAGTTAGTAGGATTTATTGGTGCAATCCCTCAATACGG
서열번호 111	Agls-11	1	Agls-11_1	CGATGGCGGAAGAGTCCGTAACACCGTACATCGCAATGCTGGGCGAGGAACCGATCGGCT
서열번호 112	Agls-11	2	Agls-11_2	GATGGCGGAAGAGTCCGTAACACCGTACATCGCAATGCTGGGCGAGGAACCGATCGGCTA
서열번호 113	Agls-11	3	Agls-11_3	ATGGCGGAAGAGTCCGTAACACCGTACATCGCAATGCTGGGCGAGGAACCGATCGGCTAT
서열번호 114	Agls-11	4	Agls-11_4	TGGCGGAAGAGTCCGTAACACCGTACATCGCAATGCTGGGCGAGGAACCGATCGGCTATG
서열번호 115	Agls-11	5	Agls-11_5	GGCGGAAGAGTCCGTAACACCGTACATCGCAATGCTGGGCGAGGAACCGATCGGCTATGC
서열번호 116	Agls-11	6	Agls-11_6	GCGGAAGAGTCCGTAACACCGTACATCGCAATGCTGGGCGAGGAACCGATCGGCTATGCT
서열번호 117	Agls-11	7	Agls-11_7	CGGAAGAGTCCGTAACACCGTACATCGCAATGCTGGGCGAGGAACCGATCGGCTATGCTC
서열번호 118	Agls-11	8	Agls-11_8	GGAAGAGTCCGTAACACCGTACATCGCAATGCTGGGCGAGGAACCGATCGGCTATGCTCA
서열번호 119	Agls-11	9	Agls-11_9	GAAGAGTCCGTAACACCGTACATCGCAATGCTGGGCGAGGAACCGATCGGCTATGCTCAG
서열번호 120	Agls-11	10	Agls-11_10	AAGAGTCCGTAACACCGTACATCGCAATGCTGGGCGAGGAACCGATCGGCTATGCTCAGT
서열번호 121	Agls-11	11	Agls-11_11	AGAGTCCGTAACACCGTACATCGCAATGCTGGGCGAGGAACCGATCGGCTATGCTCAGTC
서열번호 122	Agls-12	1	Agls-12_1	TTCTCGGAAGAGGTTACGGCACTCGGCTGGTGCAGGCGCTTGTTGATTTGCTGTTCGCCG
서열번호 123	Agls-12	2	Agls-12_2	TCTCGGAAGAGGTTACGGCACTCGGCTGGTGCAGGCGCTTGTTGATTTGCTGTTCGCCGA
서열번호 124	Agls-12	3	Agls-12_3	CTCGGAAGAGGTTACGGCACTCGGCTGGTGCAGGCGCTTGTTGATTTGCTGTTCGCCGAC
서열번호 125	Agls-12	4	Agls-12_4	TCGGAAGAGGTTACGGCACTCGGCTGGTGCAGGCGCTTGTTGATTTGCTGTTCGCCGACC
서열번호 126	Agls-12	5	Agls-12_5	CGGAAGAGGTTACGGCACTCGGCTGGTGCAGGCGCTTGTTGATTTGCTGTTCGCCGACCC
서열번호 127	Agls-12	6	Agls-12_6	GGAAGAGGTTACGGCACTCGGCTGGTGCAGGCGCTTGTTGATTTGCTGTTCGCCGACCCG
서열번호 128	Agls-12	7	Agls-12_7	GAAGAGGTTACGGCACTCGGCTGGTGCAGGCGCTTGTTGATTTGCTGTTCGCCGACCCGC
서열번호 129	Agls-12	8	Agls-12_8	AAGAGGTTACGGCACTCGGCTGGTGCAGGCGCTTGTTGATTTGCTGTTCGCCGACCCGCA

서열번호 130	Agls-12	9	Agls-12_9	AGAGGTTACGGCACTCGGCTGGTGCAGGCGCTTGTTGATTTGCTGTTCGCCGACCCGCAG
서열번호 131	Agls-12	10	Agls-12_10	GAGGTTACGGCACTCGGCTGGTGCAGGCGCTTGTTGATTTGCTGTTCGCCGACCCGCAGG
서열번호 132	Agls-12	11	Agls-12_11	AGGTTACGGCACTCGGCTGGTGCAGGCGCTTGTTGATTTGCTGTTCGCCGACCCGCAGGT
서열번호 133	Agls-13	1	Agls-13_1	ATTTATGTCCTTCCTGATTATCGGCGTTCAGGCATCGCAACACATCTGGTTCAACAAGTA
서열번호 134	Agls-13	2	Agls-13_2	TTTATGTCCTTCCTGATTATCGGCGTTCAGGCATCGCAACACATCTGGTTCAACAAGTAG
서열번호 135	Agls-13	3	Agls-13_3	TTATGTCCTTCCTGATTATCGGCGTTCAGGCATCGCAACACATCTGGTTCAACAAGTAGA
서열번호 136	Agls-13	4	Agls-13_4	TATGTCCTTCCTGATTATCGGCGTTCAGGCATCGCAACACATCTGGTTCAACAAGTAGAA
서열번호 137	Agls-13	5	Agls-13_5	ATGTCCTTCCTGATTATCGGCGTTCAGGCATCGCAACACATCTGGTTCAACAAGTAGAAG
서열번호 138	Agls-13	6	Agls-13_6	TGTCCTTCCTGATTATCGGCGTTCAGGCATCGCAACACATCTGGTTCAACAAGTAGAAGC
서열번호 139	Agls-13	7	Agls-13_7	GTCCTTCCTGATTATCGGCGTTCAGGCATCGCAACACATCTGGTTCAACAAGTAGAAGCG
서열번호 140	Agls-13	8	Agls-13_8	TCCTTCCTGATTATCGGCGTTCAGGCATCGCAACACATCTGGTTCAACAAGTAGAAGCGT
서열번호 141	Agls-13	9	Agls-13_9	CCTTCCTGATTATCGGCGTTCAGGCATCGCAACACATCTGGTTCAACAAGTAGAAGCGTG
서열번호 142	Agls-13	10	Agls-13_10	CTTCCTGATTATCGGCGTTCAGGCATCGCAACACATCTGGTTCAACAAGTAGAAGCGTGG
서열번호 143	Agls-13	11	Agls-13_11	TTCCTGATTATCGGCGTTCAGGCATCGCAACACATCTGGTTCAACAAGTAGAAGCGTGGG
서열번호 144	Agls-14	1	Agls-14_1	GATCACGCGGTTGGCATGCTAGAAGCATCTATTCGGTATGAATATGTAAACGGGACAGAG
서열번호 145	Agls-14	2	Agls-14_2	ATCACGCGGTTGGCATGCTAGAAGCATCTATTCGGTATGAATATGTAAACGGGACAGAGA
서열번호 146	Agls-14	3	Agls-14_3	TCACGCGGTTGGCATGCTAGAAGCATCTATTCGGTATGAATATGTAAACGGGACAGAGAC
서열번호 147	Agls-14	4	Agls-14_4	CACGCGGTTGGCATGCTAGAAGCATCTATTCGGTATGAATATGTAAACGGGACAGAGACT
서열번호 148	Agls-14	5	Agls-14_5	ACGCGGTTGGCATGCTAGAAGCATCTATTCGGTATGAATATGTAAACGGGACAGAGACTT
서열번호 149	Agls-14	6	Agls-14_6	CGCGGTTGGCATGCTAGAAGCATCTATTCGGTATGAATATGTAAACGGGACAGAGACTTC
서열번호 150	Agls-14	7	Agls-14_7	GCGGTTGGCATGCTAGAAGCATCTATTCGGTATGAATATGTAAACGGGACAGAGACTTCT
서열번호 151	Agls-14	8	Agls-14_8	CGGTTGGCATGCTAGAAGCATCTATTCGGTATGAATATGTAAACGGGACAGAGACTTCTC
서열번호 152	Agls-14	9	Agls-14_9	GGTTGGCATGCTAGAAGCATCTATTCGGTATGAATATGTAAACGGGACAGAGACTTCTCC
서열번호 153	Agls-14	10	Agls-14_10	GTTGGCATGCTAGAAGCATCTATTCGGTATGAATATGTAAACGGGACAGAGACTTCTCCC
서열번호 154	Agls-14	11	Agls-14_11	TTGGCATGCTAGAAGCATCTATTCGGTATGAATATGTAAACGGGACAGAGACTTCTCCCG
서열번호 155	Agls-16	1	Agls-16_1	GAATGGCCAGCAAAGCTCACCGGTGGCTTTTCTGGAAGGTATTTATGTGTTGCCAGAATA
서열번호 156	Agls-16	2	Agls-16_2	AATGGCCAGCAAAGCTCACCGGTGGCTTTTCTGGAAGGTATTTATGTGTTGCCAGAATAT
서열번호 157	Agls-16	3	Agls-16_3	ATGGCCAGCAAAGCTCACCGGTGGCTTTTCTGGAAGGTATTTATGTGTTGCCAGAATATC
서열번호 158	Agls-16	4	Agls-16_4	TGGCCAGCAAAGCTCACCGGTGGCTTTTCTGGAAGGTATTTATGTGTTGCCAGAATATCG
서열번호 159	Agls-16	5	Agls-16_5	GGCCAGCAAAGCTCACCGGTGGCTTTTCTGGAAGGTATTTATGTGTTGCCAGAATATCGA
서열번호 160	Agls-16	6	Agls-16_6	GCCAGCAAAGCTCACCGGTGGCTTTTCTGGAAGGTATTTATGTGTTGCCAGAATATCGAC
서열번호 161	Agls-16	7	Agls-16_7	CCAGCAAAGCTCACCGGTGGCTTTTCTGGAAGGTATTTATGTGTTGCCAGAATATCGACG

서열번호 162	Agls-16	8	Agls-16_8	CAGCAAAGCTCACCGGTGGCTTTTCTGGAAGGTATTTATGTGTTGCCAGAATATCGACGT
서열번호 163	Agls-16	9	Agls-16_9	AGCAAAGCTCACCGGTGGCTTTTCTGGAAGGTATTTATGTGTTGCCAGAATATCGACGTT
서열번호 164	Agls-16	10	Agls-16_10	GCAAAGCTCACCGGTGGCTTTTCTGGAAGGTATTTATGTGTTGCCAGAATATCGACGTTT
서열번호 165	Agls-16	11	Agls-16_11	CAAAGCTCACCGGTGGCTTTTCTGGAAGGTATTTATGTGTTGCCAGAATATCGACGTTTA
서열번호 166	Agls-18	1	Agls-18_1	CAATTGGCATGTTGGAAGCTTCGATTCGATATGAATATGTGAATGGTACGCAAACCTCAC
서열번호 167	Agls-18	2	Agls-18_2	AATTGGCATGTTGGAAGCTTCGATTCGATATGAATATGTGAATGGTACGCAAACCTCACC
서열번호 168	Agls-18	3	Agls-18_3	ATTGGCATGTTGGAAGCTTCGATTCGATATGAATATGTGAATGGTACGCAAACCTCACCC
서열번호 169	Agls-18	4	Agls-18_4	TTGGCATGTTGGAAGCTTCGATTCGATATGAATATGTGAATGGTACGCAAACCTCACCCG
서열번호 170	Agls-18	5	Agls-18_5	TGGCATGTTGGAAGCTTCGATTCGATATGAATATGTGAATGGTACGCAAACCTCACCCGT
서열번호 171	Agls-18	6	Agls-18_6	GGCATGTTGGAAGCTTCGATTCGATATGAATATGTGAATGGTACGCAAACCTCACCCGTG
서열번호 172	Agls-18	7	Agls-18_7	GCATGTTGGAAGCTTCGATTCGATATGAATATGTGAATGGTACGCAAACCTCACCCGTGG
서열번호 173	Agls-18	8	Agls-18_8	CATGTTGGAAGCTTCGATTCGATATGAATATGTGAATGGTACGCAAACCTCACCCGTGGC
서열번호 174	Agls-18	9	Agls-18_9	ATGTTGGAAGCTTCGATTCGATATGAATATGTGAATGGTACGCAAACCTCACCCGTGGCT
서열번호 175	Agls-18	10	Agls-18_10	TGTTGGAAGCTTCGATTCGATATGAATATGTGAATGGTACGCAAACCTCACCCGTGGCTT
서열번호 176	Agls-18	11	Agls-18_11	GTTGGAAGCTTCGATTCGATATGAATATGTGAATGGTACGCAAACCTCACCCGTGGCTTT
서열번호 177	Agls-19	1	Agls-19_1	CAGATGCAGCGCTGGATAATCAGATCACCCATGCAATGCATCAAGCACTCGGTTTTCAAG
서열번호 178	Agls-19	2	Agls-19_2	AGATGCAGCGCTGGATAATCAGATCACCCATGCAATGCATCAAGCACTCGGTTTTCAAGA
서열번호 179	Agls-19	3	Agls-19_3	GATGCAGCGCTGGATAATCAGATCACCCATGCAATGCATCAAGCACTCGGTTTTCAAGAA
서열번호 180	Agls-19	4	Agls-19_4	ATGCAGCGCTGGATAATCAGATCACCCATGCAATGCATCAAGCACTCGGTTTTCAAGAAA
서열번호 181	Agls-19	5	Agls-19_5	TGCAGCGCTGGATAATCAGATCACCCATGCAATGCATCAAGCACTCGGTTTTCAAGAAAC
서열번호 182	Agls-19	6	Agls-19_6	GCAGCGCTGGATAATCAGATCACCCATGCAATGCATCAAGCACTCGGTTTTCAAGAAACT
서열번호 183	Agls-19	7	Agls-19_7	CAGCGCTGGATAATCAGATCACCCATGCAATGCATCAAGCACTCGGTTTTCAAGAAACTG
서열번호 184	Agls-19	8	Agls-19_8	AGCGCTGGATAATCAGATCACCCATGCAATGCATCAAGCACTCGGTTTTCAAGAAACTGA
서열번호 185	Agls-19	9	Agls-19_9	GCGCTGGATAATCAGATCACCCATGCAATGCATCAAGCACTCGGTTTTCAAGAAACTGAA
서열번호 186	Agls-19	10	Agls-19_10	CGCTGGATAATCAGATCACCCATGCAATGCATCAAGCACTCGGTTTTCAAGAAACTGAAC
서열번호 187	Agls-19	11	Agls-19_11	GCTGGATAATCAGATCACCCATGCAATGCATCAAGCACTCGGTTTTCAAGAAACTGAACG
서열번호 188	Agls-20	1	Agls-20_1	GTTAGAAGCATCCATTCGACATGAATATGTGAACGGTACACAAACCTCACCTGTGGCGTT
서열번호 189	Agls-20	2	Agls-20_2	TTAGAAGCATCCATTCGACATGAATATGTGAACGGTACACAAACCTCACCTGTGGCGTTT
서열번호 190	Agls-20	3	Agls-20_3	TAGAAGCATCCATTCGACATGAATATGTGAACGGTACACAAACCTCACCTGTGGCGTTTC
서열번호 191	Agls-20	4	Agls-20_4	AGAAGCATCCATTCGACATGAATATGTGAACGGTACACAAACCTCACCTGTGGCGTTTCT
서열번호 192	Agls-20	5	Agls-20_5	GAAGCATCCATTCGACATGAATATGTGAACGGTACACAAACCTCACCTGTGGCGTTTCTG
서열번호 193	Agls-20	6	Agls-20_6	AAGCATCCATTCGACATGAATATGTGAACGGTACACAAACCTCACCTGTGGCGTTTCTGG

서열번호 194	Agls-20	7	Agls-20_7	AGCATCCATTCGACATGAATATGTGAACGGTACACAAACCTCACCTGTGGCGTTTCTGGA
서열번호 195	Agls-20	8	Agls-20_8	GCATCCATTCGACATGAATATGTGAACGGTACACAAACCTCACCTGTGGCGTTTCTGGAA
서열번호 196	Agls-20	9	Agls-20_9	CATCCATTCGACATGAATATGTGAACGGTACACAAACCTCACCTGTGGCGTTTCTGGAAG
서열번호 197	Agls-20	10	Agls-20_10	ATCCATTCGACATGAATATGTGAACGGTACACAAACCTCACCTGTGGCGTTTCTGGAAGG
서열번호 198	Agls-20	11	Agls-20_11	TCCATTCGACATGAATATGTGAACGGTACACAAACCTCACCTGTGGCGTTTCTGGAAGGG
서열번호 199	Agls-21	1	Agls-21_1	TCCCCTCATTCCGTCAACGCGGCGTAGCGAAACAATTGATTGCAGCGGTGCAACGATGGG
서열번호 200	Agls-21	2	Agls-21_2	CCCCTCATTCCGTCAACGCGGCGTAGCGAAACAATTGATTGCAGCGGTGCAACGATGGGG
서열번호 201	Agls-21	3	Agls-21_3	CCCTCATTCCGTCAACGCGGCGTAGCGAAACAATTGATTGCAGCGGTGCAACGATGGGGA
서열번호 202	Agls-21	4	Agls-21_4	CCTCATTCCGTCAACGCGGCGTAGCGAAACAATTGATTGCAGCGGTGCAACGATGGGGAA
서열번호 203	Agls-21	5	Agls-21_5	CTCATTCCGTCAACGCGGCGTAGCGAAACAATTGATTGCAGCGGTGCAACGATGGGGAAC
서열번호 204	Agls-21	6	Agls-21_6	TCATTCCGTCAACGCGGCGTAGCGAAACAATTGATTGCAGCGGTGCAACGATGGGGAACG
서열번호 205	Agls-21	7	Agls-21_7	CATTCCGTCAACGCGGCGTAGCGAAACAATTGATTGCAGCGGTGCAACGATGGGGAACGA
서열번호 206	Agls-21	8	Agls-21_8	ATTCCGTCAACGCGGCGTAGCGAAACAATTGATTGCAGCGGTGCAACGATGGGGAACGAA
서열번호 207	Agls-21	9	Agls-21_9	TTCCGTCAACGCGGCGTAGCGAAACAATTGATTGCAGCGGTGCAACGATGGGGAACGAAT
서열번호 208	Agls-21	10	Agls-21_10	TCCGTCAACGCGGCGTAGCGAAACAATTGATTGCAGCGGTGCAACGATGGGGAACGAATA
서열번호 209	Agls-21	11	Agls-21_11	CCGTCAACGCGGCGTAGCGAAACAATTGATTGCAGCGGTGCAACGATGGGGAACGAATAA

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서열번호	TargetID	BPStart	프로브 명칭	염기서열
서열번호 210	Agls-22	1	Agls-22_1	GCCTGATGCCGATGATCCGCTGGAGGAGCTGACGCAGTCGCTGGCAGATGCCGAAGGTGC
서열번호 211	Agls-22	2	Agls-22_2	CCTGATGCCGATGATCCGCTGGAGGAGCTGACGCAGTCGCTGGCAGATGCCGAAGGTGCT
서열번호 212	Agls-22	3	Agls-22_3	CTGATGCCGATGATCCGCTGGAGGAGCTGACGCAGTCGCTGGCAGATGCCGAAGGTGCTG
서열번호 213	Agls-22	4	Agls-22_4	TGATGCCGATGATCCGCTGGAGGAGCTGACGCAGTCGCTGGCAGATGCCGAAGGTGCTGT
서열번호 214	Agls-22	5	Agls-22_5	GATGCCGATGATCCGCTGGAGGAGCTGACGCAGTCGCTGGCAGATGCCGAAGGTGCTGTG
서열번호 215	Agls-22	6	Agls-22_6	ATGCCGATGATCCGCTGGAGGAGCTGACGCAGTCGCTGGCAGATGCCGAAGGTGCTGTGT
서열번호 216	Agls-22	7	Agls-22_7	TGCCGATGATCCGCTGGAGGAGCTGACGCAGTCGCTGGCAGATGCCGAAGGTGCTGTGTT
서열번호 217	Agls-22	8	Agls-22_8	GCCGATGATCCGCTGGAGGAGCTGACGCAGTCGCTGGCAGATGCCGAAGGTGCTGTGTTC
서열번호 218	Agls-22	9	Agls-22_9	CCGATGATCCGCTGGAGGAGCTGACGCAGTCGCTGGCAGATGCCGAAGGTGCTGTGTTCT
서열번호 219	Agls-22	10	Agls-22_10	CGATGATCCGCTGGAGGAGCTGACGCAGTCGCTGGCAGATGCCGAAGGTGCTGTGTTCTT
서열번호 220	Agls-22	11	Agls-22_11	GATGATCCGCTGGAGGAGCTGACGCAGTCGCTGGCAGATGCCGAAGGTGCTGTGTTCTTG
서열번호 221	Amp-1	1	Amp-1_1	ATACAGCGGCACACTTCCTAACAACAGCGTGACGGTTGCCGTCGCCATCAGCGTGAACTG

서열번호 222	Amp-1	2	Amp-1_2	TACAGCGGCACACTTCCTAACAACAGCGTGACGGTTGCCGTCGCCATCAGCGTG AACTGA
서열번호 223	Amp-1	3	Amp-1_3	ACAGCGGCACACTTCCTAACAACAGCGTGACGGTTGCCGTCGCCATCAGCGTGA ACTGAC
서열번호 224	Amp-1	4	Amp-1_4	CAGCGGCACACTTCCTAACAACAGCGTGACGGTTGCCGTCGCCATCAGCGTGAA CTGACG
서열번호 225	Amp-1	5	Amp-1_5	AGCGGCACACTTCCTAACAACAGCGTGACGGTTGCCGTCGCCATCAGCGTGAAC TGACGC
서열번호 226	Amp-1	6	Amp-1_6	GCGGCACACTTCCTAACAACAGCGTGACGGTTGCCGTCGCCATCAGCGTGAACT GACGCA
서열번호 227	Amp-1	7	Amp-1_7	CGGCACACTTCCTAACAACAGCGTGACGGTTGCCGTCGCCATCAGCGTGAACTG ACGCAG
서열번호 228	Amp-1	8	Amp-1_8	GGCACACTTCCTAACAACAGCGTGACGGTTGCCGTCGCCATCAGCGTGAACTGA CGCAGT
서열번호 229	Amp-1	9	Amp-1_9	GCACACTTCCTAACAACAGCGTGACGGTTGCCGTCGCCATCAGCGTGAACTGAC GCAGTG
서열번호 230	Amp-1	10	Amp-1_10	CACACTTCCTAACAACAGCGTGACGGTTGCCGTCGCCATCAGCGTGAACTGACG CAGTGA
서열번호 231	Amp-1	11	Amp-1_11	CACACTTCCTAACAACAGCGTGACGGTTGCCGTCGCCATCAGCGTGAACTGACG CAGTGA
서열번호 232	Amp-2	1	Amp-2_1	GTAGCGCAGGCTAATTTACTGCTACTTTTACAAAGCACGAAAACACCATTGACG GCTTCG
서열번호 233	Amp-2	2	Amp-2_2	TAGCGCAGGCTAATTTACTGCTACTTTTACAAAGCACGAAAACACCATTGACGG CTTCGG
서열번호 234	Amp-2	3	Amp-2_3	AGCGCAGGCTAATTTACTGCTACTTTTACAAAGCACGAAAACACCATTGACGGC TTCGGC
서열번호 235	Amp-2	4	Amp-2_4	GCGCAGGCTAATTTACTGCTACTTTTACAAAGCACGAAAACACCATTGACGGCT TCGGCA
서열번호 236	Amp-2	5	Amp-2_5	CGCAGGCTAATTTACTGCTACTTTTACAAAGCACGAAAACACCATTGACGGCTT CGGCAG
서열번호 237	Amp-2	6	Amp-2_6	GCAGGCTAATTTACTGCTACTTTTACAAAGCACGAAAACACCATTGACGGCTTC GGCAGA
서열번호 238	Amp-2	7	Amp-2_7	CAGGCTAATTTACTGCTACTTTTACAAAGCACGAAAACACCATTGACGGCTTCG GCAGAG
서열번호 239	Amp-2	8	Amp-2_8	AGGCTAATTTACTGCTACTTTTACAAAGCACGAAAACACCATTGACGGCTTCGG CAGAGA
서열번호 240	Amp-2	9	Amp-2_9	GGCTAATTTACTGCTACTTTTACAAAGCACGAAAACACCATTGACGGCTTCGGC AGAGAA
서열번호 241	Amp-2	10	Amp-2_10	GCTAATTTACTGCTACTTTTACAAAGCACGAAAACACCATTGACGGCTTCGGCA GAGAAC
서열번호 242	Amp-2	11	Amp-2_11	CTAATTTACTGCTACTTTTACAAAGCACGAAAACACCATTGACGGCTTCGGCAG AGAACT
서열번호 243	Amp-3	1	Amp-3_1	CGCTGATTGCCATTGTAATCCCAATATTCTCCATTTTGAGTATCAAGAACGGAA ACACCT
서열번호 244	Amp-3	2	Amp-3_2	GCTGATTGCCATTGTAATCCCAATATTCTCCATTTTGAGTATCAAGAACGGAAA CACCTA
서열번호 245	Amp-3	3	Amp-3_3	CTGATTGCCATTGTAATCCCAATATTCTCCATTTTGAGTATCAAGAACGGAAAC ACCTAT
서열번호 246	Amp-3	4	Amp-3_4	TGATTGCCATTGTAATCCCAATATTCTCCATTTTGAGTATCAAGAACGGAAACA CCTATA
서열번호 247	Amp-3	5	Amp-3_5	GATTGCCATTGTAATCCCAATATTCTCCATTTTGAGTATCAAGAACGGAAACAC CTATAC
서열번호 248	Amp-3	6	Amp-3_6	ATTGCCATTGTAATCCCAATATTCTCCATTTTGAGTATCAAGAACGGAAACACC TATACG
서열번호 249	Amp-3	7	Amp-3_7	TTGCCATTGTAATCCCAATATTCTCCATTTTGAGTATCAAGAACGGAAACACCT ATACGA
서열번호 250	Amp-3	8	Amp-3_8	TGCCATTGTAATCCCAATATTCTCCATTTTGAGTATCAAGAACGGAAACACCTA TACGAG
서열번호 251	Amp-3	9	Amp-3_9	GCCATTGTAATCCCAATATTCTCCATTTTGAGTATCAAGAACGGAAACACCTAT ACGAGC
서열번호 252	Amp-3	10	Amp-3_10	CCATTGTAATCCCAATATTCTCCATTTTGAGTATCAAGAACGGAAACACCTATA CGAGCA
서열번호 253	Amp-3	11	Amp-3_11	CATTGTAATCCCAATATTCTCCATTTTGAGTATCAAGAACGGAAACACCTATAC GAGCAG

서열번호 254	Amp-4	1	Amp-4_1	CTCAAGCGGCTGCGGGCTGGCGTGTACCGCCAGCGGCAGGGTGGCTAACAGGGAGATAAT
서열번호 255	Amp-4	2	Amp-4_2	TCAAGCGGCTGCGGGCTGGCGTGTACCGCCAGCGGCAGGGTGGCTAACAGGGAGATAATA
서열번호 256	Amp-4	3	Amp-4_3	CAAGCGGCTGCGGGCTGGCGTGTACCGCCAGCGGCAGGGTGGCTAACAGGGAGATAATAC
서열번호 257	Amp-4	4	Amp-4_4	AAGCGGCTGCGGGCTGGCGTGTACCGCCAGCGGCAGGGTGGCTAACAGGGAGATAATACA
서열번호 258	Amp-4	5	Amp-4_5	AGCGGCTGCGGGCTGGCGTGTACCGCCAGCGGCAGGGTGGCTAACAGGGAGATAATACAC
서열번호 259	Amp-4	6	Amp-4_6	GCGGCTGCGGGCTGGCGTGTACCGCCAGCGGCAGGGTGGCTAACAGGGAGATAATACACA
서열번호 260	Amp-4	7	Amp-4_7	CGGCTGCGGGCTGGCGTGTACCGCCAGCGGCAGGGTGGCTAACAGGGAGATAATACACAG
서열번호 261	Amp-4	8	Amp-4_8	GGCTGCGGGCTGGCGTGTACCGCCAGCGGCAGGGTGGCTAACAGGGAGATAATACACAGG
서열번호 262	Amp-4	9	Amp-4_9	GCTGCGGGCTGGCGTGTACCGCCAGCGGCAGGGTGGCTAACAGGGAGATAATACACAGGC
서열번호 263	Amp-4	10	Amp-4_10	CTGCGGGCTGGCGTGTACCGCCAGCGGCAGGGTGGCTAACAGGGAGATAATACACAGGCG
서열번호 264	Amp-4	11	Amp-4_11	TGCGGGCTGGCGTGTACCGCCAGCGGCAGGGTGGCTAACAGGGAGATAATACACAGGCGA
서열번호 265	Amp-5	1	Amp-5_1	AAAGTTCTGCTATGTGGCGCGGTATTATCCCGTGTTGACGCCGGGCAAGAGCAACTCGGT
서열번호 266	Amp-5	2	Amp-5_2	AAGTTCTGCTATGTGGCGCGGTATTATCCCGTGTTGACGCCGGGCAAGAGCAACTCGGTC
서열번호 267	Amp-5	3	Amp-5_3	AGTTCTGCTATGTGGCGCGGTATTATCCCGTGTTGACGCCGGGCAAGAGCAACTCGGTCG
서열번호 268	Amp-5	4	Amp-5_4	GTTCTGCTATGTGGCGCGGTATTATCCCGTGTTGACGCCGGGCAAGAGCAACTCGGTCGC
서열번호 269	Amp-5	5	Amp-5_5	TTCTGCTATGTGGCGCGGTATTATCCCGTGTTGACGCCGGGCAAGAGCAACTCGGTCGCC
서열번호 270	Amp-5	6	Amp-5_6	TCTGCTATGTGGCGCGGTATTATCCCGTGTTGACGCCGGGCAAGAGCAACTCGGTCGCCG
서열번호 271	Amp-5	7	Amp-5_7	CTGCTATGTGGCGCGGTATTATCCCGTGTTGACGCCGGGCAAGAGCAACTCGGTCGCCGC
서열번호 272	Amp-5	8	Amp-5_8	TGCTATGTGGCGCGGTATTATCCCGTGTTGACGCCGGGCAAGAGCAACTCGGTCGCCGCA
서열번호 273	Amp-5	9	Amp-5_9	GCTATGTGGCGCGGTATTATCCCGTGTTGACGCCGGGCAAGAGCAACTCGGTCGCCGCAT
서열번호 274	Amp-5	10	Amp-5_10	CTATGTGGCGCGGTATTATCCCGTGTTGACGCCGGGCAAGAGCAACTCGGTCGCCGCATA
서열번호 275	Amp-5	11	Amp-5_11	TATGTGGCGCGGTATTATCCCGTGTTGACGCCGGGCAAGAGCAACTCGGTCGCCGCATAC
서열번호 276	Blact-7	1	Blact-7_1	CACTGGTAATTTACTACGTTCAGTATTGCCGGCGGGATGGAACATTGCGGATCGCTCAGG
서열번호 277	Blact-7	2	Blact-7_2	CACTGGTAATTTACTACGTTCAGTATTGCCGGCGGGATGGAACATTGCGGATCGCTCAGG
서열번호 278	Blact-7	3	Blact-7_3	CACTGGTAATTTACTACGTTCAGTATTGCCGGCGGGATGGAACATTGCGGATCGCTCAGG
서열번호 279	Blact-7	4	Blact-7_4	CACTGGTAATTTACTACGTTCAGTATTGCCGGCGGGATGGAACATTGCGGATCGCTCAGG
서열번호 280	Blact-7	5	Blact-7_5	CACTGGTAATTTACTACGTTCAGTATTGCCGGCGGGATGGAACATTGCGGATCGCTCAGG
서열번호 281	Blact-7	6	Blact-7_6	CACTGGTAATTTACTACGTTCAGTATTGCCGGCGGGATGGAACATTGCGGATCGCTCAGG
서열번호 282	Blact-7	7	Blact-7_7	CACTGGTAATTTACTACGTTCAGTATTGCCGGCGGGATGGAACATTGCGGATCGCTCAGG
서열번호 283	Blact-7	8	Blact-7_8	CACTGGTAATTTACTACGTTCAGTATTGCCGGCGGGATGGAACATTGCGGATCGCTCAGG
서열번호 284	Blact-7	9	Blact-7_9	CACTGGTAATTTACTACGTTCAGTATTGCCGGCGGGATGGAACATTGCGGATCGCTCAGG
서열번호 285	Blact-7	10	Blact-7_10	CACTGGTAATTTACTACGTTCAGTATTGCCGGCGGGATGGAACATTGCGGATCGCTCAGG

서열번호 286	Blact-7	11	Blact-7_11	CACTGGTAATTTACTACGTTCAGTATTGCCGGCGGGATGGAACATTGCGGATCGCTCAGG
서열번호 287	Chl-1	1	Chl-1_1	AAATCGTGAACGCCCATAGAGAATTTAGAATAAATTTTAACTCAGAAGGAAATTTAGGTT
서열번호 288	Chl-1	2	Chl-1_2	AATCGTGAACGCCCATAGAGAATTTAGAATAAATTTTAACTCAGAAGGAAATTTAGGTTA
서열번호 289	Chl-1	3	Chl-1_3	ATCGTGAACGCCCATAGAGAATTTAGAATAAATTTTAACTCAGAAGGAAATTTAGGTTAC
서열번호 290	Chl-1	4	Chl-1_4	TCGTGAACGCCCATAGAGAATTTAGAATAAATTTTAACTCAGAAGGAAATTTAGGTTACT
서열번호 291	Chl-1	5	Chl-1_5	CGTGAACGCCCATAGAGAATTTAGAATAAATTTTAACTCAGAAGGAAATTTAGGTTACTG
서열번호 292	Chl-1	6	Chl-1_6	GTGAACGCCCATAGAGAATTTAGAATAAATTTTAACTCAGAAGGAAATTTAGGTTACTGG
서열번호 293	Chl-1	7	Chl-1_7	TGAACGCCCATAGAGAATTTAGAATAAATTTTAACTCAGAAGGAAATTTAGGTTACTGGA
서열번호 294	Chl-1	8	Chl-1_8	GAACGCCCATAGAGAATTTAGAATAAATTTTAACTCAGAAGGAAATTTAGGTTACTGGAC
서열번호 295	Chl-1	9	Chl-1_9	AACGCCCATAGAGAATTTAGAATAAATTTTAACTCAGAAGGAAATTTAGGTTACTGGACG
서열번호 296	Chl-1	10	Chl-1_10	ACGCCCATAGAGAATTTAGAATAAATTTTAACTCAGAAGGAAATTTAGGTTACTGGACGG
서열번호 297	Chl-1	11	Chl-1_11	CGCCCATAGAGAATTTAGAATAAATTTTAACTCAGAAGGAAATTTAGGTTACTGGACGGA
서열번호 298	Chl-2	1	Chl-2_1	ATGTGATGGCTTCCATGTAGGCAGATTACTCAATGAAATACAGCAATACTGCGATGAGGG
서열번호 299	Chl-2	2	Chl-2_2	TGTGATGGCTTCCATGTAGGCAGATTACTCAATGAAATACAGCAATACTGCGATGAGGGA
서열번호 300	Chl-2	3	Chl-2_3	GTGATGGCTTCCATGTAGGCAGATTACTCAATGAAATACAGCAATACTGCGATGAGGGAT
서열번호 301	Chl-2	4	Chl-2_4	TGATGGCTTCCATGTAGGCAGATTACTCAATGAAATACAGCAATACTGCGATGAGGGATG
서열번호 302	Chl-2	5	Chl-2_5	GATGGCTTCCATGTAGGCAGATTACTCAATGAAATACAGCAATACTGCGATGAGGGATGT
서열번호 303	Chl-2	6	Chl-2_6	ATGGCTTCCATGTAGGCAGATTACTCAATGAAATACAGCAATACTGCGATGAGGGATGTA
서열번호 304	Chl-2	7	Chl-2_7	TGGCTTCCATGTAGGCAGATTACTCAATGAAATACAGCAATACTGCGATGAGGGATGTAA
서열번호 305	Chl-2	8	Chl-2_8	GGCTTCCATGTAGGCAGATTACTCAATGAAATACAGCAATACTGCGATGAGGGATGTAAA
서열번호 306	Chl-2	9	Chl-2_9	GCTTCCATGTAGGCAGATTACTCAATGAAATACAGCAATACTGCGATGAGGGATGTAAAT
서열번호 307	Chl-2	10	Chl-2_10	CTTCCATGTAGGCAGATTACTCAATGAAATACAGCAATACTGCGATGAGGGATGTAAATA
서열번호 308	Chl-2	11	Chl-2_11	TTCCATGTAGGCAGATTACTCAATGAAATACAGCAATACTGCGATGAGGGATGTAAATAA
서열번호 309	Chl-3	1	Chl-3_1	ATATACAGTCTTTAATAAAGAAACTGAAAAATTTTCTAATATTTGGACAGAATCAAATGC
서열번호 310	Chl-3	2	Chl-3_2	TATACAGTCTTTAATAAAGAAACTGAAAAATTTTCTAATATTTGGACAGAATCAAATGCT
서열번호 311	Chl-3	3	Chl-3_3	ATACAGTCTTTAATAAAGAAACTGAAAAATTTTCTAATATTTGGACAGAATCAAATGCTA
서열번호 312	Chl-3	4	Chl-3_4	TACAGTCTTTAATAAAGAAACTGAAAAATTTTCTAATATTTGGACAGAATCAAATGCTAG
서열번호 313	Chl-3	5	Chl-3_5	ACAGTCTTTAATAAAGAAACTGAAAAATTTTCTAATATTTGGACAGAATCAAATGCTAGT
서열번호 314	Chl-3	6	Chl-3_6	CAGTCTTTAATAAAGAAACTGAAAAATTTTCTAATATTTGGACAGAATCAAATGCTAGTT
서열번호 315	Chl-3	7	Chl-3_7	AGTCTTTAATAAAGAAACTGAAAAATTTTCTAATATTTGGACAGAATCAAATGCTAGTTT
서열번호 316	Chl-3	8	Chl-3_8	GTCTTTAATAAAGAAACTGAAAAATTTTCTAATATTTGGACAGAATCAAATGCTAGTTTT
서열번호 317	Chl-3	9	Chl-3_9	TCTTTAATAAAGAAACTGAAAAATTTTCTAATATTTGGACAGAATCAAATGCTAGTTTTA

서열번호 318	Chl-3	10	Chl-3_10	CTTTAATAAAGAAACTGAAAAATTTTCTAATATTTGGACAGAATCAAATGCTAGTTTTAA
서열번호 319	Chl-3	11	Chl-3_11	TTTAATAAAGAAACTGAAAAATTTTCTAATATTTGGACAGAATCAAATGCTAGTTTTAAC
서열번호 320	Chl-4	1	Chl-4_1	GGGTGATAAACTCAAATACAGCTTTTAGAACTGGTTACAATAGCGACGGAGAGTTAGGTT
서열번호 321	Chl-4	2	Chl-4_2	GGTGATAAACTCAAATACAGCTTTTAGAACTGGTTACAATAGCGACGGAGAGTTAGGTTA
서열번호 322	Chl-4	3	Chl-4_3	GTGATAAACTCAAATACAGCTTTTAGAACTGGTTACAATAGCGACGGAGAGTTAGGTTAT
서열번호 323	Chl-4	4	Chl-4_4	TGATAAACTCAAATACAGCTTTTAGAACTGGTTACAATAGCGACGGAGAGTTAGGTTATT
서열번호 324	Chl-4	5	Chl-4_5	GATAAACTCAAATACAGCTTTTAGAACTGGTTACAATAGCGACGGAGAGTTAGGTTATTG
서열번호 325	Chl-4	6	Chl-4_6	ATAAACTCAAATACAGCTTTTAGAACTGGTTACAATAGCGACGGAGAGTTAGGTTATTGG
서열번호 326	Chl-4	7	Chl-4_7	TAAACTCAAATACAGCTTTTAGAACTGGTTACAATAGCGACGGAGAGTTAGGTTATTGGG
서열번호 327	Chl-4	8	Chl-4_8	AAACTCAAATACAGCTTTTAGAACTGGTTACAATAGCGACGGAGAGTTAGGTTATTGGGA
서열번호 328	Chl-4	9	Chl-4_9	AACTCAAATACAGCTTTTAGAACTGGTTACAATAGCGACGGAGAGTTAGGTTATTGGGAT
서열번호 329	Chl-4	10	Chl-4_10	ACTCAAATACAGCTTTTAGAACTGGTTACAATAGCGACGGAGAGTTAGGTTATTGGGATA
서열번호 330	Chl-4	11	Chl-4_11	CTCAAATACAGCTTTTAGAACTGGTTACAATAGCGACGGAGAGTTAGGTTATTGGGATAA
서열번호 331	Chl-5	1	Chl-5_1	TTGTGATGGCTTCCATGTCGGCAGAATGCTTAATGAATTACAACAGTACTGCGATGAGTG
서열번호 332	Chl-5	2	Chl-5_2	TGTGATGGCTTCCATGTCGGCAGAATGCTTAATGAATTACAACAGTACTGCGATGAGTGG
서열번호 333	Chl-5	3	Chl-5_3	GTGATGGCTTCCATGTCGGCAGAATGCTTAATGAATTACAACAGTACTGCGATGAGTGGC
서열번호 334	Chl-5	4	Chl-5_4	TGATGGCTTCCATGTCGGCAGAATGCTTAATGAATTACAACAGTACTGCGATGAGTGGCA
서열번호 335	Chl-5	5	Chl-5_5	GATGGCTTCCATGTCGGCAGAATGCTTAATGAATTACAACAGTACTGCGATGAGTGGCAG
서열번호 336	Chl-5	6	Chl-5_6	ATGGCTTCCATGTCGGCAGAATGCTTAATGAATTACAACAGTACTGCGATGAGTGGCAGG
서열번호 337	Chl-5	7	Chl-5_7	TGGCTTCCATGTCGGCAGAATGCTTAATGAATTACAACAGTACTGCGATGAGTGGCAGGG
서열번호 338	Chl-5	8	Chl-5_8	GGCTTCCATGTCGGCAGAATGCTTAATGAATTACAACAGTACTGCGATGAGTGGCAGGGC
서열번호 339	Chl-5	9	Chl-5_9	GCTTCCATGTCGGCAGAATGCTTAATGAATTACAACAGTACTGCGATGAGTGGCAGGGCG
서열번호 340	Chl-5	10	Chl-5_10	CTTCCATGTCGGCAGAATGCTTAATGAATTACAACAGTACTGCGATGAGTGGCAGGGCGG
서열번호 341	Chl-5	11	Chl-5_11	TTCCATGTCGGCAGAATGCTTAATGAATTACAACAGTACTGCGATGAGTGGCAGGGCGGG
서열번호 342	Chl-6	1	Chl-6_1	AACGGCAGAATATCAGCATGATACCAGATTGTTTCCGCAGGGAAATTTACCGGAGAATCA
서열번호 343	Chl-6	2	Chl-6_2	ACGGCAGAATATCAGCATGATACCAGATTGTTTCCGCAGGGAAATTTACCGGAGAATCAC
서열번호 344	Chl-6	3	Chl-6_3	CGGCAGAATATCAGCATGATACCAGATTGTTTCCGCAGGGAAATTTACCGGAGAATCACC
서열번호 345	Chl-6	4	Chl-6_4	GGCAGAATATCAGCATGATACCAGATTGTTTCCGCAGGGAAATTTACCGGAGAATCACCT
서열번호 346	Chl-6	5	Chl-6_5	GCAGAATATCAGCATGATACCAGATTGTTTCCGCAGGGAAATTTACCGGAGAATCACCTG
서열번호 347	Chl-6	6	Chl-6_6	CAGAATATCAGCATGATACCAGATTGTTTCCGCAGGGAAATTTACCGGAGAATCACCTGA
서열번호 348	Chl-6	7	Chl-6_7	AGAATATCAGCATGATACCAGATTGTTTCCGCAGGGAAATTTACCGGAGAATCACCTGAA
서열번호 349	Chl-6	8	Chl-6_8	GAATATCAGCATGATACCAGATTGTTTCCGCAGGGAAATTTACCGGAGAATCACCTGAAT

서열번호 350	Ch1-6	9	Ch1-6_9	AATATCAGCATGATACCAGATTGTTTCCGCAGGGAAATTTACCGGAGAATCACC TGAATA
서열번호 351	Ch1-6	10	Ch1-6_10	ATATCAGCATGATACCAGATTGTTTCCGCAGGGAAATTTACCGGAGAATCACCT GAATAT
서열번호 352	Ch1-6	11	Ch1-6_11	TATCAGCATGATACCAGATTGTTTCCGCAGGGAAATTTACCGGAGAATCACCTG AATATA
서열번호 353	Ch1-7	1	Ch1-7_1	AGTTGCCCATACTCATCCGATATTGATCAATTTATGGTGAATTATTTATCGGTA ATGGAA
서열번호 354	Ch1-7	2	Ch1-7_2	GTTGCCCATACTCATCCGATATTGATCAATTTATGGTGAATTATTTATCGGTAA TGGAAC
서열번호 355	Ch1-7	3	Ch1-7_3	TTGCCCATACTCATCCGATATTGATCAATTTATGGTGAATTATTTATCGGTAAT GGAACG
서열번호 356	Ch1-7	4	Ch1-7_4	TGCCCATACTCATCCGATATTGATCAATTTATGGTGAATTATTTATCGGTAATG GAACGT
서열번호 357	Ch1-7	5	Ch1-7_5	GCCCATACTCATCCGATATTGATCAATTTATGGTGAATTATTTATCGGTAATGG AACGTT
서열번호 358	Ch1-7	6	Ch1-7_6	CCCATACTCATCCGATATTGATCAATTTATGGTGAATTATTTATCGGTAATGGA ACGTTA
서열번호 359	Ch1-7	7	Ch1-7_7	CCATACTCATCCGATATTGATCAATTTATGGTGAATTATTTATCGGTAATGGAA CGTTAT
서열번호 360	Ch1-7	8	Ch1-7_8	CATACTCATCCGATATTGATCAATTTATGGTGAATTATTTATCGGTAATGGAAC GTTATA
서열번호 361	Ch1-7	9	Ch1-7_9	ATACTCATCCGATATTGATCAATTTATGGTGAATTATTTATCGGTAATGGAACG TTATAA
서열번호 362	Ch1-7	10	Ch1-7_10	TACTCATCCGATATTGATCAATTTATGGTGAATTATTTATCGGTAATGGAACGT TATAAA
서열번호 363	Ch1-7	11	Ch1-7_11	ACTCATCCGATATTGATCAATTTATGGTGAATTATTTATCGGTAATGGAACGTT ATAAAA
서열번호 364	Ch1-8	1	Ch1-8_1	GCAATACGGTGAAAACAAGGGCATGATGGCAAAGCCAAATCCGCCTGTGAATAC TTTCCC
서열번호 365	Ch1-8	2	Ch1-8_2	CAATACGGTGAAAACAAGGGCATGATGGCAAAGCCAAATCCGCCTGTGAATACT TTCCCA
서열번호 366	Ch1-8	3	Ch1-8_3	AATACGGTGAAAACAAGGGCATGATGGCAAAGCCAAATCCGCCTGTGAATACTT TCCCAG
서열번호 367	Ch1-8	4	Ch1-8_4	ATACGGTGAAAACAAGGGCATGATGGCAAAGCCAAATCCGCCTGTGAATACTTT CCCAGT
서열번호 368	Ch1-8	5	Ch1-8_5	TACGGTGAAAACAAGGGCATGATGGCAAAGCCAAATCCGCCTGTGAATACTTTC CCAGTC
서열번호 369	Ch1-8	6	Ch1-8_6	ACGGTGAAAACAAGGGCATGATGGCAAAGCCAAATCCGCCTGTGAATACTTTCC CAGTCT
서열번호 370	Ch1-8	7	Ch1-8_7	CGGTGAAAACAAGGGCATGATGGCAAAGCCAAATCCGCCTGTGAATACTTTCCC AGTCTC
서열번호 371	Ch1-8	8	Ch1-8_8	GGTGAAAACAAGGGCATGATGGCAAAGCCAAATCCGCCTGTGAATACTTTCCCA GTCTCT
서열번호 372	Ch1-8	9	Ch1-8_9	GTGAAAACAAGGGCATGATGGCAAAGCCAAATCCGCCTGTGAATACTTTCCCAG TCTCTA
서열번호 373	Ch1-8	10	Ch1-8_10	TGAAAACAAGGGCATGATGGCAAAGCCAAATCCGCCTGTGAATACTTTCCCAGT CTCTAT
서열번호 374	Ch1-8	11	Ch1-8_11	GAAAACAAGGGCATGATGGCAAAGCCAAATCCGCCTGTGAATACTTTCCCAGTC TCTATG
서열번호 375	Ch1-9	1	Ch1-9_1	TGTTGAATATTTGAGGTGGCTTATTGAACATTGTGACGAGTGGTTAAATGATTC ATTGCA
서열번호 376	Ch1-9	2	Ch1-9_2	GTTGAATATTTGAGGTGGCTTATTGAACATTGTGACGAGTGGTTAAATGATTCA TTGCAT
서열번호 377	Ch1-9	3	Ch1-9_3	TTGAATATTTGAGGTGGCTTATTGAACATTGTGACGAGTGGTTAAATGATTCAT TGCATA
서열번호 378	Ch1-9	4	Ch1-9_4	TGAATATTTGAGGTGGCTTATTGAACATTGTGACGAGTGGTTAAATGATTCATT GCATAT
서열번호 379	Ch1-9	5	Ch1-9_5	GAATATTTGAGGTGGCTTATTGAACATTGTGACGAGTGGTTAAATGATTCATTG CATATT
서열번호 380	Ch1-9	6	Ch1-9_6	AATATTTGAGGTGGCTTATTGAACATTGTGACGAGTGGTTAAATGATTCATTGC ATATTA
서열번호 381	Ch1-9	7	Ch1-9_7	ATATTTGAGGTGGCTTATTGAACATTGTGACGAGTGGTTAAATGATTCATTGCA TATTAC

서열번호 382	Ch1-9	8	Ch1-9_8	TATTTGAGGTGGCTTATTGAACATTGTGACGAGTGGTTAAATGATTCATTGCATATTACC
서열번호 383	Ch1-9	9	Ch1-9_9	ATTTGAGGTGGCTTATTGAACATTGTGACGAGTGGTTAAATGATTCATTGCATATTACCT
서열번호 384	Ch1-9	10	Ch1-9_10	TTTGAGGTGGCTTATTGAACATTGTGACGAGTGGTTAAATGATTCATTGCATATTACCTG
서열번호 385	Ch1-9	11	Ch1-9_11	TTGAGGTGGCTTATTGAACATTGTGACGAGTGGTTAAATGATTCATTGCATATTACCTGA
서열번호 386	Ch1-10	1	Ch1-10_1	AAAAAACTATGGAAATATCATGAAGTTTACTCCGAAATCAAATGAACCTGACAATACATT
서열번호 387	Ch1-10	2	Ch1-10_2	AAAAACTATGGAAATATCATGAAGTTTACTCCGAAATCAAATGAACCTGACAATACATTT
서열번호 388	Ch1-10	3	Ch1-10_3	AAAACTATGGAAATATCATGAAGTTTACTCCGAAATCAAATGAACCTGACAATACATTTT
서열번호 389	Ch1-10	4	Ch1-10_4	AAACTATGGAAATATCATGAAGTTTACTCCGAAATCAAATGAACCTGACAATACATTTTC
서열번호 390	Ch1-10	5	Ch1-10_5	AACTATGGAAATATCATGAAGTTTACTCCGAAATCAAATGAACCTGACAATACATTTTCT
서열번호 391	Ch1-10	6	Ch1-10_6	ACTATGGAAATATCATGAAGTTTACTCCGAAATCAAATGAACCTGACAATACATTTTCTG
서열번호 392	Ch1-10	7	Ch1-10_7	CTATGGAAATATCATGAAGTTTACTCCGAAATCAAATGAACCTGACAATACATTTTCTGT
서열번호 393	Ch1-10	8	Ch1-10_8	TATGGAAATATCATGAAGTTTACTCCGAAATCAAATGAACCTGACAATACATTTTCTGTA
서열번호 394	Ch1-10	9	Ch1-10_9	ATGGAAATATCATGAAGTTTACTCCGAAATCAAATGAACCTGACAATACATTTTCTGTAT
서열번호 395	Ch1-10	10	Ch1-10_10	TGGAAATATCATGAAGTTTACTCCGAAATCAAATGAACCTGACAATACATTTTCTGTATC
서열번호 396	Ch1-10	11	Ch1-10_11	GGAAATATCATGAAGTTTACTCCGAAATCAAATGAACCTGACAATACATTTTCTGTATCA
서열번호 397	Ch1-11	1	Ch1-11_1	GAAAGCTGCAATGCCGCTGATGACCAGCGGCAATGTCGCGGCGCTCTATCGTTTCTGGCG
서열번호 398	Ch1-11	2	Ch1-11_2	AAAGCTGCAATGCCGCTGATGACCAGCGGCAATGTCGCGGCGCTCTATCGTTTCTGGCGG
서열번호 399	Ch1-11	3	Ch1-11_3	AAGCTGCAATGCCGCTGATGACCAGCGGCAATGTCGCGGCGCTCTATCGTTTCTGGCGGT
서열번호 400	Ch1-11	4	Ch1-11_4	AGCTGCAATGCCGCTGATGACCAGCGGCAATGTCGCGGCGCTCTATCGTTTCTGGCGGTC
서열번호 401	Ch1-11	5	Ch1-11_5	GCTGCAATGCCGCTGATGACCAGCGGCAATGTCGCGGCGCTCTATCGTTTCTGGCGGTCC
서열번호 402	Ch1-11	6	Ch1-11_6	CTGCAATGCCGCTGATGACCAGCGGCAATGTCGCGGCGCTCTATCGTTTCTGGCGGTCCG
서열번호 403	Ch1-11	7	Ch1-11_7	TGCAATGCCGCTGATGACCAGCGGCAATGTCGCGGCGCTCTATCGTTTCTGGCGGTCCGA
서열번호 404	Ch1-11	8	Ch1-11_8	GCAATGCCGCTGATGACCAGCGGCAATGTCGCGGCGCTCTATCGTTTCTGGCGGTCCGAT
서열번호 405	Ch1-11	9	Ch1-11_9	CAATGCCGCTGATGACCAGCGGCAATGTCGCGGCGCTCTATCGTTTCTGGCGGTCCGATA
서열번호 406	Ch1-11	10	Ch1-11_10	AATGCCGCTGATGACCAGCGGCAATGTCGCGGCGCTCTATCGTTTCTGGCGGTCCGATAG
서열번호 407	Ch1-11	11	Ch1-11_11	ATGCCGCTGATGACCAGCGGCAATGTCGCGGCGCTCTATCGTTTCTGGCGGTCCGATAGC

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서열번호	Target ID	BP Start	프로브 명칭	염기서열
서열번호 408	Ch1-12	1	Ch1-12_1	GGGAAACCCTGCAAAGTCGATTAGGAAGCGCTTTTCTGAAGAAGAAATTTCTATGCTTTT
서열번호 409	Ch1-12	2	Ch1-12_2	GGAAACCCTGCAAAGTCGATTAGGAAGCGCTTTTCTGAAGAAGAAATTTCTATGCTTTTA

서열번호 410	Chl-12	3	Chl-12_3	GAAACCCTGCAAAGTCGATTAGGAAGCGCTTTTCTGAAGAAGAAATTTCTATGCTTTTAG
서열번호 411	Chl-12	4	Chl-12_4	AAACCCTGCAAAGTCGATTAGGAAGCGCTTTTCTGAAGAAGAAATTTCTATGCTTTTAGA
서열번호 412	Chl-12	5	Chl-12_5	AACCCTGCAAAGTCGATTAGGAAGCGCTTTTCTGAAGAAGAAATTTCTATGCTTTTAGAT
서열번호 413	Chl-12	6	Chl-12_6	ACCCTGCAAAGTCGATTAGGAAGCGCTTTTCTGAAGAAGAAATTTCTATGCTTTTAGATA
서열번호 414	Chl-12	7	Chl-12_7	CCCTGCAAAGTCGATTAGGAAGCGCTTTTCTGAAGAAGAAATTTCTATGCTTTTAGATAT
서열번호 415	Chl-12	8	Chl-12_8	CCTGCAAAGTCGATTAGGAAGCGCTTTTCTGAAGAAGAAATTTCTATGCTTTTAGATATG
서열번호 416	Chl-12	9	Chl-12_9	CTGCAAAGTCGATTAGGAAGCGCTTTTCTGAAGAAGAAATTTCTATGCTTTTAGATATGG
서열번호 417	Chl-12	10	Chl-12_10	TGCAAAGTCGATTAGGAAGCGCTTTTCTGAAGAAGAAATTTCTATGCTTTTAGATATGGC
서열번호 418	Chl-12	11	Chl-12_11	GCAAAGTCGATTAGGAAGCGCTTTTCTGAAGAAGAAATTTCTATGCTTTTAGATATGGCT
서열번호 419	Chl-13	1	Chl-13_1	GGGGCTTCCTTCATCATGGCTGGCAATCAGGGGCATCGGCATGACTGGGCATCATCCTTC
서열번호 420	Chl-13	2	Chl-13_2	GGGCTTCCTTCATCATGGCTGGCAATCAGGGGCATCGGCATGACTGGGCATCATCCTTCC
서열번호 421	Chl-13	3	Chl-13_3	GGCTTCCTTCATCATGGCTGGCAATCAGGGGCATCGGCATGACTGGGCATCATCCTTCCC
서열번호 422	Chl-13	4	Chl-13_4	GCTTCCTTCATCATGGCTGGCAATCAGGGGCATCGGCATGACTGGGCATCATCCTTCCCC
서열번호 423	Chl-13	5	Chl-13_5	CTTCCTTCATCATGGCTGGCAATCAGGGGCATCGGCATGACTGGGCATCATCCTTCCCCT
서열번호 424	Chl-13	6	Chl-13_6	TTCCTTCATCATGGCTGGCAATCAGGGGCATCGGCATGACTGGGCATCATCCTTCCCCTT
서열번호 425	Chl-13	7	Chl-13_7	TCCTTCATCATGGCTGGCAATCAGGGGCATCGGCATGACTGGGCATCATCCTTCCCCTTC
서열번호 426	Chl-13	8	Chl-13_8	CCTTCATCATGGCTGGCAATCAGGGGCATCGGCATGACTGGGCATCATCCTTCCCCTTCT
서열번호 427	Chl-13	9	Chl-13_9	CTTCATCATGGCTGGCAATCAGGGGCATCGGCATGACTGGGCATCATCCTTCCCCTTCTT
서열번호 428	Chl-13	10	Chl-13_10	TTCATCATGGCTGGCAATCAGGGGCATCGGCATGACTGGGCATCATCCTTCCCCTTCTTC
서열번호 429	Chl-13	11	Chl-13_11	TCATCATGGCTGGCAATCAGGGGCATCGGCATGACTGGGCATCATCCTTCCCCTTCTTCT
서열번호 430	Chl-14	1	Chl-14_1	GCCACTGCTGTGTACTGGGGATATCCCCGCCTTGTACCGGCACTGGAAACAGCGCCAGGC
서열번호 431	Chl-14	2	Chl-14_2	CCACTGCTGTGTACTGGGGATATCCCCGCCTTGTACCGGCACTGGAAACAGCGCCAGGCC
서열번호 432	Chl-14	3	Chl-14_3	CACTGCTGTGTACTGGGGATATCCCCGCCTTGTACCGGCACTGGAAACAGCGCCAGGCCA
서열번호 433	Chl-14	4	Chl-14_4	ACTGCTGTGTACTGGGGATATCCCCGCCTTGTACCGGCACTGGAAACAGCGCCAGGCCAC
서열번호 434	Chl-14	5	Chl-14_5	CTGCTGTGTACTGGGGATATCCCCGCCTTGTACCGGCACTGGAAACAGCGCCAGGCCACG
서열번호 435	Chl-14	6	Chl-14_6	TGCTGTGTACTGGGGATATCCCCGCCTTGTACCGGCACTGGAAACAGCGCCAGGCCACGG
서열번호 436	Chl-14	7	Chl-14_7	GCTGTGTACTGGGGATATCCCCGCCTTGTACCGGCACTGGAAACAGCGCCAGGCCACGGC
서열번호 437	Chl-14	8	Chl-14_8	CTGTGTACTGGGGATATCCCCGCCTTGTACCGGCACTGGAAACAGCGCCAGGCCACGGCC
서열번호 438	Chl-14	9	Chl-14_9	TGTGTACTGGGGATATCCCCGCCTTGTACCGGCACTGGAAACAGCGCCAGGCCACGGCCT
서열번호 439	Chl-14	10	Chl-14_10	GTGTACTGGGGATATCCCCGCCTTGTACCGGCACTGGAAACAGCGCCAGGCCACGGCCTG
서열번호 440	Chl-14	11	Chl-14_11	TGTACTGGGGATATCCCCGCCTTGTACCGGCACTGGAAACAGCGCCAGGCCACGGCCTGA
서열번호 441	Chl-15	1	Chl-15_1	TATGCAGTCTCTGTGTTCATCAGACATTGAAGGGCTTTATCTCAATTGGCAGTCAAAAGC

서열번호 442	Chl-15	2	Chl-15_2	ATGCAGTCTCTGTGTTCATCAGACATTGAAGGGCTTTATCTCAATTGGCAGTCAAAAGCA
서열번호 443	Chl-15	3	Chl-15_3	TGCAGTCTCTGTGTTCATCAGACATTGAAGGGCTTTATCTCAATTGGCAGTCAAAAGCAC
서열번호 444	Chl-15	4	Chl-15_4	GCAGTCTCTGTGTTCATCAGACATTGAAGGGCTTTATCTCAATTGGCAGTCAAAAGCACG
서열번호 445	Chl-15	5	Chl-15_5	CAGTCTCTGTGTTCATCAGACATTGAAGGGCTTTATCTCAATTGGCAGTCAAAAGCACGC
서열번호 446	Chl-15	6	Chl-15_6	AGTCTCTGTGTTCATCAGACATTGAAGGGCTTTATCTCAATTGGCAGTCAAAAGCACGCA
서열번호 447	Chl-15	7	Chl-15_7	GTCTCTGTGTTCATCAGACATTGAAGGGCTTTATCTCAATTGGCAGTCAAAAGCACGCAC
서열번호 448	Chl-15	8	Chl-15_8	TCTCTGTGTTCATCAGACATTGAAGGGCTTTATCTCAATTGGCAGTCAAAAGCACGCACA
서열번호 449	Chl-15	9	Chl-15_9	CTCTGTGTTCATCAGACATTGAAGGGCTTTATCTCAATTGGCAGTCAAAAGCACGCACAT
서열번호 450	Chl-15	10	Chl-15_10	TCTGTGTTCATCAGACATTGAAGGGCTTTATCTCAATTGGCAGTCAAAAGCACGCACATA
서열번호 451	Chl-15	11	Chl-15_11	CTGTGTTCATCAGACATTGAAGGGCTTTATCTCAATTGGCAGTCAAAAGCACGCACATAA
서열번호 452	Chl-16	1	Chl-16_1	GAACACTATTTTAACCAGCAAACTACGTATAGCATTACTAAAGAAATTGATATTACTTTG
서열번호 453	Chl-16	2	Chl-16_2	AACACTATTTTAACCAGCAAACTACGTATAGCATTACTAAAGAAATTGATATTACTTTGT
서열번호 454	Chl-16	3	Chl-16_3	ACACTATTTTAACCAGCAAACTACGTATAGCATTACTAAAGAAATTGATATTACTTTGTT
서열번호 455	Chl-16	4	Chl-16_4	CACTATTTTAACCAGCAAACTACGTATAGCATTACTAAAGAAATTGATATTACTTTGTTT
서열번호 456	Chl-16	5	Chl-16_5	ACTATTTTAACCAGCAAACTACGTATAGCATTACTAAAGAAATTGATATTACTTTGTTTA
서열번호 457	Chl-16	6	Chl-16_6	CTATTTTAACCAGCAAACTACGTATAGCATTACTAAAGAAATTGATATTACTTTGTTTAA
서열번호 458	Chl-16	7	Chl-16_7	TATTTTAACCAGCAAACTACGTATAGCATTACTAAAGAAATTGATATTACTTTGTTTAAA
서열번호 459	Chl-16	8	Chl-16_8	ATTTTAACCAGCAAACTACGTATAGCATTACTAAAGAAATTGATATTACTTTGTTTAAAG
서열번호 460	Chl-16	9	Chl-16_9	TTTTAACCAGCAAACTACGTATAGCATTACTAAAGAAATTGATATTACTTTGTTTAAAGA
서열번호 461	Chl-16	10	Chl-16_10	TTTAACCAGCAAACTACGTATAGCATTACTAAAGAAATTGATATTACTTTGTTTAAAGAT
서열번호 462	Chl-16	11	Chl-16_11	TTAACCAGCAAACTACGTATAGCATTACTAAAGAAATTGATATTACTTTGTTTAAAGATA
서열번호 463	Chl-17	1	Chl-17_1	AATCATTATTTCAATCAACAAACAACTTACAGTGTTACTAAAGAATTTGATATCACTTTA
서열번호 464	Chl-17	2	Chl-17_2	ATCATTATTTCAATCAACAAACAACTTACAGTGTTACTAAAGAATTTGATATCACTTTAC
서열번호 465	Chl-17	3	Chl-17_3	TCATTATTTCAATCAACAAACAACTTACAGTGTTACTAAAGAATTTGATATCACTTTACT
서열번호 466	Chl-17	4	Chl-17_4	CATTATTTCAATCAACAAACAACTTACAGTGTTACTAAAGAATTTGATATCACTTTACTT
서열번호 467	Chl-17	5	Chl-17_5	ATTATTTCAATCAACAAACAACTTACAGTGTTACTAAAGAATTTGATATCACTTTACTTA
서열번호 468	Chl-17	6	Chl-17_6	TTATTTCAATCAACAAACAACTTACAGTGTTACTAAAGAATTTGATATCACTTTACTTAA
서열번호 469	Chl-17	7	Chl-17_7	TATTTCAATCAACAAACAACTTACAGTGTTACTAAAGAATTTGATATCACTTTACTTAAA
서열번호 470	Chl-17	8	Chl-17_8	ATTTCAATCAACAAACAACTTACAGTGTTACTAAAGAATTTGATATCACTTTACTTAAAA
서열번호 471	Chl-17	9	Chl-17_9	TTTCAATCAACAAACAACTTACAGTGTTACTAAAGAATTTGATATCACTTTACTTAAAAG
서열번호 472	Chl-17	10	Chl-17_10	TTCAATCAACAAACAACTTACAGTGTTACTAAAGAATTTGATATCACTTTACTTAAAAGT
서열번호 473	Chl-17	11	Chl-17_11	TCAATCAACAAACAACTTACAGTGTTACTAAAGAATTTGATATCACTTTACTTAAAAGTA

서열번호 474	Chl-18	1	Chl-18_1	TGAGTGTAAGTCTGACTTTAAATCATTTTTAGCAGATTATGAAAGTGATACGCA ACGGTA
서열번호 475	Chl-18	2	Chl-18_2	GAGTGTAAGTCTGACTTTAAATCATTTTTAGCAGATTATGAAAGTGATACGCAA CGGTAT
서열번호 476	Chl-18	3	Chl-18_3	AGTGTAAGTCTGACTTTAAATCATTTTTAGCAGATTATGAAAGTGATACGCAAC GGTATG
서열번호 477	Chl-18	4	Chl-18_4	GTGTAAGTCTGACTTTAAATCATTTTTAGCAGATTATGAAAGTGATACGCAACG GTATGG
서열번호 478	Chl-18	5	Chl-18_5	TGTAAGTCTGACTTTAAATCATTTTTAGCAGATTATGAAAGTGATACGCAACGG TATGGA
서열번호 479	Chl-18	6	Chl-18_6	GTAAGTCTGACTTTAAATCATTTTTAGCAGATTATGAAAGTGATACGCAACGGT ATGGAA
서열번호 480	Chl-18	7	Chl-18_7	TAAGTCTGACTTTAAATCATTTTTAGCAGATTATGAAAGTGATACGCAACGGTA TGGAAA
서열번호 481	Chl-18	8	Chl-18_8	AAGTCTGACTTTAAATCATTTTTAGCAGATTATGAAAGTGATACGCAACGGTAT GGAAAC
서열번호 482	Chl-18	9	Chl-18_9	AGTCTGACTTTAAATCATTTTTAGCAGATTATGAAAGTGATACGCAACGGTATG GAAACA
서열번호 483	Chl-18	10	Chl-18_10	GTCTGACTTTAAATCATTTTTAGCAGATTATGAAAGTGATACGCAACGGTATGG AAACAA
서열번호 484	Chl-18	11	Chl-18_11	TCTGACTTTAAATCATTTTTAGCAGATTATGAAAGTGATACGCAACGGTATGGA AACAAT
서열번호 485	Chl-19	1	Chl-19_1	TAGAAACTATAGCGACGTTTTGAATTTCATGCCTAAGACAGGTGAACCTGCTAA TACAAT
서열번호 486	Chl-19	2	Chl-19_2	AGAAACTATAGCGACGTTTTGAATTTCATGCCTAAGACAGGTGAACCTGCTAAT ACAATT
서열번호 487	Chl-19	3	Chl-19_3	GAAACTATAGCGACGTTTTGAATTTCATGCCTAAGACAGGTGAACCTGCTAATA CAATTA
서열번호 488	Chl-19	4	Chl-19_4	AAACTATAGCGACGTTTTGAATTTCATGCCTAAGACAGGTGAACCTGCTAATAC AATTAA
서열번호 489	Chl-19	5	Chl-19_5	AACTATAGCGACGTTTTGAATTTCATGCCTAAGACAGGTGAACCTGCTAATACA ATTAAT
서열번호 490	Chl-19	6	Chl-19_6	ACTATAGCGACGTTTTGAATTTCATGCCTAAGACAGGTGAACCTGCTAATACAA TTAATG
서열번호 491	Chl-19	7	Chl-19_7	CTATAGCGACGTTTTGAATTTCATGCCTAAGACAGGTGAACCTGCTAATACAAT TAATGT
서열번호 492	Chl-19	8	Chl-19_8	TATAGCGACGTTTTGAATTTCATGCCTAAGACAGGTGAACCTGCTAATACAATT AATGTG
서열번호 493	Chl-19	9	Chl-19_9	ATAGCGACGTTTTGAATTTCATGCCTAAGACAGGTGAACCTGCTAATACAATTA ATGTGT
서열번호 494	Chl-19	10	Chl-19_10	TAGCGACGTTTTGAATTTCATGCCTAAGACAGGTGAACCTGCTAATACAATTAA TGTGTC
서열번호 495	Chl-19	11	Chl-19_11	AGCGACGTTTTGAATTTCATGCCTAAGACAGGTGAACCTGCTAATACAATTAAT GTGTCC
서열번호 496	Chl-20	1	Chl-20_1	ACCATACATACCAGATTTTGAAGCATTTTCTATGGCGTATGCGAATGATATGCA AAGGTA
서열번호 497	Chl-20	2	Chl-20_2	CCATACATACCAGATTTTGAAGCATTTTCTATGGCGTATGCGAATGATATGCAA AGGTAT
서열번호 498	Chl-20	3	Chl-20_3	CATACATACCAGATTTTGAAGCATTTTCTATGGCGTATGCGAATGATATGCAAA GGTATG
서열번호 499	Chl-20	4	Chl-20_4	ATACATACCAGATTTTGAAGCATTTTCTATGGCGTATGCGAATGATATGCAAAG GTATGG
서열번호 500	Chl-20	5	Chl-20_5	TACATACCAGATTTTGAAGCATTTTCTATGGCGTATGCGAATGATATGCAAAGG TATGGA
서열번호 501	Chl-20	6	Chl-20_6	ACATACCAGATTTTGAAGCATTTTCTATGGCGTATGCGAATGATATGCAAAGGT ATGGAA
서열번호 502	Chl-20	7	Chl-20_7	CATACCAGATTTTGAAGCATTTTCTATGGCGTATGCGAATGATATGCAAAGGTA TGGAAG
서열번호 503	Chl-20	8	Chl-20_8	ATACCAGATTTTGAAGCATTTTCTATGGCGTATGCGAATGATATGCAAAGGTAT GGAAGC
서열번호 504	Chl-20	9	Chl-20_9	TACCAGATTTTGAAGCATTTTCTATGGCGTATGCGAATGATATGCAAAGGTATG GAAGCA
서열번호 505	Chl-20	10	Chl-20_10	ACCAGATTTTGAAGCATTTTCTATGGCGTATGCGAATGATATGCAAAGGTATGG AAGCAA

서열번호 506	Chl-20	11	Chl-20_11	CCAGATTTTGAAGCATTTTCTATGGCGTATGCGAATGATATGCAAAGGTATGGAAGCAAT
서열번호 507	Chl-21	1	Chl-21_1	TACTTCTGCTTGGGCGGTGTACTGCTAGGAAGCATCGGAACGTTGATCATTTCGCTGTTG
서열번호 508	Chl-21	2	Chl-21_2	ACTTCTGCTTGGGCGGTGTACTGCTAGGAAGCATCGGAACGTTGATCATTTCGCTGTTGC
서열번호 509	Chl-21	3	Chl-21_3	CTTCTGCTTGGGCGGTGTACTGCTAGGAAGCATCGGAACGTTGATCATTTCGCTGTTGCC
서열번호 510	Chl-21	4	Chl-21_4	TTCTGCTTGGGCGGTGTACTGCTAGGAAGCATCGGAACGTTGATCATTTCGCTGTTGCCG
서열번호 511	Chl-21	5	Chl-21_5	TCTGCTTGGGCGGTGTACTGCTAGGAAGCATCGGAACGTTGATCATTTCGCTGTTGCCGC
서열번호 512	Chl-21	6	Chl-21_6	CTGCTTGGGCGGTGTACTGCTAGGAAGCATCGGAACGTTGATCATTTCGCTGTTGCCGCG
서열번호 513	Chl-21	7	Chl-21_7	TGCTTGGGCGGTGTACTGCTAGGAAGCATCGGAACGTTGATCATTTCGCTGTTGCCGCGC
서열번호 514	Chl-21	8	Chl-21_8	GCTTGGGCGGTGTACTGCTAGGAAGCATCGGAACGTTGATCATTTCGCTGTTGCCGCGCA
서열번호 515	Chl-21	9	Chl-21_9	CTTGGGCGGTGTACTGCTAGGAAGCATCGGAACGTTGATCATTTCGCTGTTGCCGCGCAA
서열번호 516	Chl-21	10	Chl-21_10	TTGGGCGGTGTACTGCTAGGAAGCATCGGAACGTTGATCATTTCGCTGTTGCCGCGCAAC
서열번호 517	Chl-21	11	Chl-21_11	TGGGCGGTGTACTGCTAGGAAGCATCGGAACGTTGATCATTTCGCTGTTGCCGCGCAACA
서열번호 518	Chl-22	1	Chl-22_1	GGACTGTCGTGTGTTTCCCGAGCGAGAGACCTTCGCGGTCACGGGGAGTATGATGCGGTT
서열번호 519	Chl-22	2	Chl-22_2	GACTGTCGTGTGTTTCCCGAGCGAGAGACCTTCGCGGTCACGGGGAGTATGATGCGGTTG
서열번호 520	Chl-22	3	Chl-22_3	ACTGTCGTGTGTTTCCCGAGCGAGAGACCTTCGCGGTCACGGGGAGTATGATGCGGTTGC
서열번호 521	Chl-22	4	Chl-22_4	CTGTCGTGTGTTTCCCGAGCGAGAGACCTTCGCGGTCACGGGGAGTATGATGCGGTTGCA
서열번호 522	Chl-22	5	Chl-22_5	TGTCGTGTGTTTCCCGAGCGAGAGACCTTCGCGGTCACGGGGAGTATGATGCGGTTGCAC
서열번호 523	Chl-22	6	Chl-22_6	GTCGTGTGTTTCCCGAGCGAGAGACCTTCGCGGTCACGGGGAGTATGATGCGGTTGCACG
서열번호 524	Chl-22	7	Chl-22_7	TCGTGTGTTTCCCGAGCGAGAGACCTTCGCGGTCACGGGGAGTATGATGCGGTTGCACGC
서열번호 525	Chl-22	8	Chl-22_8	CGTGTGTTTCCCGAGCGAGAGACCTTCGCGGTCACGGGGAGTATGATGCGGTTGCACGCA
서열번호 526	Chl-22	9	Chl-22_9	GTGTGTTTCCCGAGCGAGAGACCTTCGCGGTCACGGGGAGTATGATGCGGTTGCACGCAC
서열번호 527	Chl-22	10	Chl-22_10	TGTGTTTCCCGAGCGAGAGACCTTCGCGGTCACGGGGAGTATGATGCGGTTGCACGCACA
서열번호 528	Chl-22	11	Chl-22_11	GTGTTTCCCGAGCGAGAGACCTTCGCGGTCACGGGGAGTATGATGCGGTTGCACGCACAT
서열번호 529	Chl-23	1	Chl-23_1	GTCGCCATCTACCGCGACCGCCAGGTCCTCCTGTCGATCGCGGTCACGGCCCTCGCGGCG
서열번호 530	Chl-23	2	Chl-23_2	TCGCCATCTACCGCGACCGCCAGGTCCTCCTGTCGATCGCGGTCACGGCCCTCGCGGCGG
서열번호 531	Chl-23	3	Chl-23_3	CGCCATCTACCGCGACCGCCAGGTCCTCCTGTCGATCGCGGTCACGGCCCTCGCGGCGGG
서열번호 532	Chl-23	4	Chl-23_4	GCCATCTACCGCGACCGCCAGGTCCTCCTGTCGATCGCGGTCACGGCCCTCGCGGCGGGC
서열번호 533	Chl-23	5	Chl-23_5	CCATCTACCGCGACCGCCAGGTCCTCCTGTCGATCGCGGTCACGGCCCTCGCGGCGGGCG
서열번호 534	Chl-23	6	Chl-23_6	CATCTACCGCGACCGCCAGGTCCTCCTGTCGATCGCGGTCACGGCCCTCGCGGCGGGCGG
서열번호 535	Chl-23	7	Chl-23_7	ATCTACCGCGACCGCCAGGTCCTCCTGTCGATCGCGGTCACGGCCCTCGCGGCGGGCGGC
서열번호 536	Chl-23	8	Chl-23_8	TCTACCGCGACCGCCAGGTCCTCCTGTCGATCGCGGTCACGGCCCTCGCGGCGGGCGGCG
서열번호 537	Chl-23	9	Chl-23_9	CTACCGCGACCGCCAGGTCCTCCTGTCGATCGCGGTCACGGCCCTCGCGGCGGGCGGCGT

서열번호 538	Chl-23	10	Chl-23_10	TACCGCGACCGCCAGGTCCTCCTGTCGATCGCGGTCACGGCCCTCGCGGCGGGC GGCGTC
서열번호 539	Chl-23	11	Chl-23_11	ACCGCGACCGCCAGGTCCTCCTGTCGATCGCGGTCACGGCCCTCGCGGCGGGCG GCGTCT
서열번호 540	Chl-24	1	Chl-24_1	GATCGTCATCGGCGCAGCCACCTTGTCGCTCTGGCGGCGTCCAGCGTCCGTCCA GGAAAC
서열번호 541	Chl-24	2	Chl-24_2	ATCGTCATCGGCGCAGCCACCTTGTCGCTCTGGCGGCGTCCAGCGTCCGTCCAG GAAACC
서열번호 542	Chl-24	3	Chl-24_3	TCGTCATCGGCGCAGCCACCTTGTCGCTCTGGCGGCGTCCAGCGTCCGTCCAGG AAACCG
서열번호 543	Chl-24	4	Chl-24_4	CGTCATCGGCGCAGCCACCTTGTCGCTCTGGCGGCGTCCAGCGTCCGTCCAGGA AACCGT
서열번호 544	Chl-24	5	Chl-24_5	GTCATCGGCGCAGCCACCTTGTCGCTCTGGCGGCGTCCAGCGTCCGTCCAGGAA ACCGTC
서열번호 545	Chl-24	6	Chl-24_6	TCATCGGCGCAGCCACCTTGTCGCTCTGGCGGCGTCCAGCGTCCGTCCAGGAAA CCGTCC
서열번호 546	Chl-24	7	Chl-24_7	CATCGGCGCAGCCACCTTGTCGCTCTGGCGGCGTCCAGCGTCCGTCCAGGAAAC CGTCCC
서열번호 547	Chl-24	8	Chl-24_8	ATCGGCGCAGCCACCTTGTCGCTCTGGCGGCGTCCAGCGTCCGTCCAGGAAACC GTCCCA
서열번호 548	Chl-24	9	Chl-24_9	TCGGCGCAGCCACCTTGTCGCTCTGGCGGCGTCCAGCGTCCGTCCAGGAAACCG TCCCAG
서열번호 549	Chl-24	10	Chl-24_10	CGGCGCAGCCACCTTGTCGCTCTGGCGGCGTCCAGCGTCCGTCCAGGAAACCGT CCCAGC
서열번호 550	Chl-24	11	Chl-24_11	GGCGCAGCCACCTTGTCGCTCTGGCGGCGTCCAGCGTCCGTCCAGGAAACCGTC CCAGCC
서열번호 551	Chl-25	1	Chl-25_1	ACCAAGGCTCCGTGTCGAGCTCAGCCAGTTGGCGACGCCGCGGCTCATCCTGGC CATGGC
서열번호 552	Chl-25	2	Chl-25_2	CCAAGGCTCCGTGTCGAGCTCAGCCAGTTGGCGACGCCGCGGCTCATCCTGGCC ATGGCA
서열번호 553	Chl-25	3	Chl-25_3	CAAGGCTCCGTGTCGAGCTCAGCCAGTTGGCGACGCCGCGGCTCATCCTGGCCA TGGCAC
서열번호 554	Chl-25	4	Chl-25_4	AAGGCTCCGTGTCGAGCTCAGCCAGTTGGCGACGCCGCGGCTCATCCTGGCCAT GGCACT
서열번호 555	Chl-25	5	Chl-25_5	AGGCTCCGTGTCGAGCTCAGCCAGTTGGCGACGCCGCGGCTCATCCTGGCCATG GCACTC
서열번호 556	Chl-25	6	Chl-25_6	GGCTCCGTGTCGAGCTCAGCCAGTTGGCGACGCCGCGGCTCATCCTGGCCATGG CACTCG
서열번호 557	Chl-25	7	Chl-25_7	GCTCCGTGTCGAGCTCAGCCAGTTGGCGACGCCGCGGCTCATCCTGGCCATGGC ACTCGG
서열번호 558	Chl-25	8	Chl-25_8	CTCCGTGTCGAGCTCAGCCAGTTGGCGACGCCGCGGCTCATCCTGGCCATGGCA CTCGGA
서열번호 559	Chl-25	9	Chl-25_9	TCCGTGTCGAGCTCAGCCAGTTGGCGACGCCGCGGCTCATCCTGGCCATGGCAC TCGGAG
서열번호 560	Chl-25	10	Chl-25_10	CCGTGTCGAGCTCAGCCAGTTGGCGACGCCGCGGCTCATCCTGGCCATGGCACT CGGAGC
서열번호 561	Chl-25	11	Chl-25_11	CGTGTCGAGCTCAGCCAGTTGGCGACGCCGCGGCTCATCCTGGCCATGGCACTC GGAGCG
서열번호 562	Ery-1	1	Ery-1_1	TCGGCAGGAGAAAGCTATCTCAGGGGTAACCAGATTGAAGCTCCGCTTGGCGTC GCTTGC
서열번호 563	Ery-1	2	Ery-1_2	CGGCAGGAGAAAGCTATCTCAGGGGTAACCAGATTGAAGCTCCGCTTGGCGTCG CTTGCC
서열번호 564	Ery-1	3	Ery-1_3	GGCAGGAGAAAGCTATCTCAGGGGTAACCAGATTGAAGCTCCGCTTGGCGTCGC TTGCCC
서열번호 565	Ery-1	4	Ery-1_4	GCAGGAGAAAGCTATCTCAGGGGTAACCAGATTGAAGCTCCGCTTGGCGTCGCT TGCCCC
서열번호 566	Ery-1	5	Ery-1_5	CAGGAGAAAGCTATCTCAGGGGTAACCAGATTGAAGCTCCGCTTGGCGTCGCTT GCCCCC
서열번호 567	Ery-1	6	Ery-1_6	AGGAGAAAGCTATCTCAGGGGTAACCAGATTGAAGCTCCGCTTGGCGTCGCTTG CCCCCG
서열번호 568	Ery-1	7	Ery-1_7	GGAGAAAGCTATCTCAGGGGTAACCAGATTGAAGCTCCGCTTGGCGTCGCTTGC CCCCGT
서열번호 569	Ery-1	8	Ery-1_8	GAGAAAGCTATCTCAGGGGTAACCAGATTGAAGCTCCGCTTGGCGTCGCTTGCC CCCGTC

서열번호 570	Ery-1	9	Ery-1_9	AGAAAGCTATCTCAGGGGTAACCAGATTGAAGCTCCGCTTGGCGTCGCTTGCCCCCGTCC
서열번호 571	Ery-1	10	Ery-1_10	GAAAGCTATCTCAGGGGTAACCAGATTGAAGCTCCGCTTGGCGTCGCTTGCCCCCGTCCT
서열번호 572	Ery-1	11	Ery-1_11	AAAGCTATCTCAGGGGTAACCAGATTGAAGCTCCGCTTGGCGTCGCTTGCCCCCGTCCTG
서열번호 573	Ery-2	1	Ery-2_1	AAATTTACATGAGCTAACAGATTCTGAGAAATGCCGTTTAACTAGCCAATTAGCTCGAGT
서열번호 574	Ery-2	2	Ery-2_2	AATTTACATGAGCTAACAGATTCTGAGAAATGCCGTTTAACTAGCCAATTAGCTCGAGTA
서열번호 575	Ery-2	3	Ery-2_3	ATTTACATGAGCTAACAGATTCTGAGAAATGCCGTTTAACTAGCCAATTAGCTCGAGTAA
서열번호 576	Ery-2	4	Ery-2_4	TTTACATGAGCTAACAGATTCTGAGAAATGCCGTTTAACTAGCCAATTAGCTCGAGTAAA
서열번호 577	Ery-2	5	Ery-2_5	TTACATGAGCTAACAGATTCTGAGAAATGCCGTTTAACTAGCCAATTAGCTCGAGTAAAA
서열번호 578	Ery-2	6	Ery-2_6	TACATGAGCTAACAGATTCTGAGAAATGCCGTTTAACTAGCCAATTAGCTCGAGTAAAAG
서열번호 579	Ery-2	7	Ery-2_7	ACATGAGCTAACAGATTCTGAGAAATGCCGTTTAACTAGCCAATTAGCTCGAGTAAAAGT
서열번호 580	Ery-2	8	Ery-2_8	CATGAGCTAACAGATTCTGAGAAATGCCGTTTAACTAGCCAATTAGCTCGAGTAAAAGTT
서열번호 581	Ery-2	9	Ery-2_9	ATGAGCTAACAGATTCTGAGAAATGCCGTTTAACTAGCCAATTAGCTCGAGTAAAAGTTC
서열번호 582	Ery-2	10	Ery-2_10	TGAGCTAACAGATTCTGAGAAATGCCGTTTAACTAGCCAATTAGCTCGAGTAAAAGTTCG
서열번호 583	Ery-2	11	Ery-2_11	GAGCTAACAGATTCTGAGAAATGCCGTTTAACTAGCCAATTAGCTCGAGTAAAAGTTCGC
서열번호 584	Ery-3	1	Ery-3_1	CCGACAGGCTTTGAAGCATGCAAATGTCACTAATATTAATAAACTATCGAAGGAACAATT
서열번호 585	Ery-3	2	Ery-3_2	CGACAGGCTTTGAAGCATGCAAATGTCACTAATATTAATAAACTATCGAAGGAACAATTT
서열번호 586	Ery-3	3	Ery-3_3	GACAGGCTTTGAAGCATGCAAATGTCACTAATATTAATAAACTATCGAAGGAACAATTTC
서열번호 587	Ery-3	4	Ery-3_4	ACAGGCTTTGAAGCATGCAAATGTCACTAATATTAATAAACTATCGAAGGAACAATTTCT
서열번호 588	Ery-3	5	Ery-3_5	CAGGCTTTGAAGCATGCAAATGTCACTAATATTAATAAACTATCGAAGGAACAATTTCTT
서열번호 589	Ery-3	6	Ery-3_6	AGGCTTTGAAGCATGCAAATGTCACTAATATTAATAAACTATCGAAGGAACAATTTCTTT
서열번호 590	Ery-3	7	Ery-3_7	GGCTTTGAAGCATGCAAATGTCACTAATATTAATAAACTATCGAAGGAACAATTTCTTTC
서열번호 591	Ery-3	8	Ery-3_8	GCTTTGAAGCATGCAAATGTCACTAATATTAATAAACTATCGAAGGAACAATTTCTTTCT
서열번호 592	Ery-3	9	Ery-3_9	CTTTGAAGCATGCAAATGTCACTAATATTAATAAACTATCGAAGGAACAATTTCTTTCTA
서열번호 593	Ery-3	10	Ery-3_10	TTTGAAGCATGCAAATGTCACTAATATTAATAAACTATCGAAGGAACAATTTCTTTCTAT
서열번호 594	Ery-3	11	Ery-3_11	TTGAAGCATGCAAATGTCACTAATATTAATAAACTATCGAAGGAACAATTTCTTTCTATT
서열번호 595	Ery-4	1	Ery-4_1	CAAGTCTCGATTCAGCAATTGCTTAAGCTGCCAGCGGAATGCTTTCATCCTAAACCAAAA
서열번호 596	Ery-4	2	Ery-4_2	AAGTCTCGATTCAGCAATTGCTTAAGCTGCCAGCGGAATGCTTTCATCCTAAACCAAAAG
서열번호 597	Ery-4	3	Ery-4_3	AGTCTCGATTCAGCAATTGCTTAAGCTGCCAGCGGAATGCTTTCATCCTAAACCAAAAGT
서열번호 598	Ery-4	4	Ery-4_4	GTCTCGATTCAGCAATTGCTTAAGCTGCCAGCGGAATGCTTTCATCCTAAACCAAAAGTA
서열번호 599	Ery-4	5	Ery-4_5	TCTCGATTCAGCAATTGCTTAAGCTGCCAGCGGAATGCTTTCATCCTAAACCAAAAGTAA
서열번호 600	Ery-4	6	Ery-4_6	CTCGATTCAGCAATTGCTTAAGCTGCCAGCGGAATGCTTTCATCCTAAACCAAAAGTAAA
서열번호 601	Ery-4	7	Ery-4_7	TCGATTCAGCAATTGCTTAAGCTGCCAGCGGAATGCTTTCATCCTAAACCAAAAGTAAAC

서열번호 602	Ery-4	8	Ery-4_8	CGATTCAGCAATTGCTTAAGCTGCCAGCGGAATGCTTTCATCCTAAACCAAAAGTAAACA
서열번호 603	Ery-4	9	Ery-4_9	GATTCAGCAATTGCTTAAGCTGCCAGCGGAATGCTTTCATCCTAAACCAAAAGTAAACAG
서열번호 604	Ery-4	10	Ery-4_10	ATTCAGCAATTGCTTAAGCTGCCAGCGGAATGCTTTCATCCTAAACCAAAAGTAAACAGT
서열번호 605	Ery-4	11	Ery-4_11	TTCAGCAATTGCTTAAGCTGCCAGCGGAATGCTTTCATCCTAAACCAAAAGTAAACAGTG

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서열번호	Target ID	BP Start	프로브 명칭	염기서열
서열번호 606	Ery-5	1	Ery-5_1	CGAAGATTCCGATAGAGCAGCGCAAAGCCTTTCAGGCGATGGTGCACACCGTTTTCACTG
서열번호 607	Ery-5	2	Ery-5_2	GAAGATTCCGATAGAGCAGCGCAAAGCCTTTCAGGCGATGGTGCACACCGTTTTCACTGC
서열번호 608	Ery-5	3	Ery-5_3	AAGATTCCGATAGAGCAGCGCAAAGCCTTTCAGGCGATGGTGCACACCGTTTTCACTGCC
서열번호 609	Ery-5	4	Ery-5_4	AGATTCCGATAGAGCAGCGCAAAGCCTTTCAGGCGATGGTGCACACCGTTTTCACTGCCC
서열번호 610	Ery-5	5	Ery-5_5	GATTCCGATAGAGCAGCGCAAAGCCTTTCAGGCGATGGTGCACACCGTTTTCACTGCCCG
서열번호 611	Ery-5	6	Ery-5_6	ATTCCGATAGAGCAGCGCAAAGCCTTTCAGGCGATGGTGCACACCGTTTTCACTGCCCGG
서열번호 612	Ery-5	7	Ery-5_7	TTCCGATAGAGCAGCGCAAAGCCTTTCAGGCGATGGTGCACACCGTTTTCACTGCCCGGG
서열번호 613	Ery-5	8	Ery-5_8	TCCGATAGAGCAGCGCAAAGCCTTTCAGGCGATGGTGCACACCGTTTTCACTGCCCGGGG
서열번호 614	Ery-5	9	Ery-5_9	CCGATAGAGCAGCGCAAAGCCTTTCAGGCGATGGTGCACACCGTTTTCACTGCCCGGGGA
서열번호 615	Ery-5	10	Ery-5_10	CGATAGAGCAGCGCAAAGCCTTTCAGGCGATGGTGCACACCGTTTTCACTGCCCGGGGAC
서열번호 616	Ery-5	11	Ery-5_11	GATAGAGCAGCGCAAAGCCTTTCAGGCGATGGTGCACACCGTTTTCACTGCCCGGGGACG
서열번호 617	Ery-6	1	Ery-6_1	TAGGATAACTAAAAACAAACTTATTGAATATGAGAACTTCCAGGTTATCAATAAAGATAT
서열번호 618	Ery-6	2	Ery-6_2	AGGATAACTAAAAACAAACTTATTGAATATGAGAACTTCCAGGTTATCAATAAAGATATT
서열번호 619	Ery-6	3	Ery-6_3	GGATAACTAAAAACAAACTTATTGAATATGAGAACTTCCAGGTTATCAATAAAGATATTT
서열번호 620	Ery-6	4	Ery-6_4	GATAACTAAAAACAAACTTATTGAATATGAGAACTTCCAGGTTATCAATAAAGATATTTT
서열번호 621	Ery-6	5	Ery-6_5	ATAACTAAAAACAAACTTATTGAATATGAGAACTTCCAGGTTATCAATAAAGATATTTTA
서열번호 622	Ery-6	6	Ery-6_6	TAACTAAAAACAAACTTATTGAATATGAGAACTTCCAGGTTATCAATAAAGATATTTTAC
서열번호 623	Ery-6	7	Ery-6_7	AACTAAAAACAAACTTATTGAATATGAGAACTTCCAGGTTATCAATAAAGATATTTTACA
서열번호 624	Ery-6	8	Ery-6_8	ACTAAAAACAAACTTATTGAATATGAGAACTTCCAGGTTATCAATAAAGATATTTTACAA
서열번호 625	Ery-6	9	Ery-6_9	CTAAAAACAAACTTATTGAATATGAGAACTTCCAGGTTATCAATAAAGATATTTTACAAT
서열번호 626	Ery-6	10	Ery-6_10	TAAAAACAAACTTATTGAATATGAGAACTTCCAGGTTATCAATAAAGATATTTTACAATT
서열번호 627	Ery-6	11	Ery-6_11	AAAAACAAACTTATTGAATATGAGAACTTCCAGGTTATCAATAAAGATATTTTACAATTT
서열번호 628	Ery-7	1	Ery-7_1	CAAAACTACAGAAAATAAACTTGTTGATCACGATAATTTCCAAGTTTTAAACAAGGATAT
서열번호 629	Ery-7	2	Ery-7_2	AAAACTACAGAAAATAAACTTGTTGATCACGATAATTTCCAAGTTTTAAACAAGGATATA

서열번호 630	Ery-7	3	Ery-7_3	AAACTACAGAAAATAAACTTGTTGATCACGATAATTTCCAAGTTTTAAACAAGGATATAT
서열번호 631	Ery-7	4	Ery-7_4	AACTACAGAAAATAAACTTGTTGATCACGATAATTTCCAAGTTTTAAACAAGGATATATT
서열번호 632	Ery-7	5	Ery-7_5	ACTACAGAAAATAAACTTGTTGATCACGATAATTTCCAAGTTTTAAACAAGGATATATTG
서열번호 633	Ery-7	6	Ery-7_6	CTACAGAAAATAAACTTGTTGATCACGATAATTTCCAAGTTTTAAACAAGGATATATTGC
서열번호 634	Ery-7	7	Ery-7_7	TACAGAAAATAAACTTGTTGATCACGATAATTTCCAAGTTTTAAACAAGGATATATTGCA
서열번호 635	Ery-7	8	Ery-7_8	ACAGAAAATAAACTTGTTGATCACGATAATTTCCAAGTTTTAAACAAGGATATATTGCAG
서열번호 636	Ery-7	9	Ery-7_9	CAGAAAATAAACTTGTTGATCACGATAATTTCCAAGTTTTAAACAAGGATATATTGCAGT
서열번호 637	Ery-7	10	Ery-7_10	AGAAAATAAACTTGTTGATCACGATAATTTCCAAGTTTTAAACAAGGATATATTGCAGTT
서열번호 638	Ery-7	11	Ery-7_11	GAAAATAAACTTGTTGATCACGATAATTTCCAAGTTTTAAACAAGGATATATTGCAGTTT
서열번호 639	Ery-8	1	Ery-8_1	GTGGCCCGCCGGCGTGCCGGCATCGGTGGTAGCAGCATGATGACCGCGCAGTGGTGGCCT
서열번호 640	Ery-8	2	Ery-8_2	TGGCCCGCCGGCGTGCCGGCATCGGTGGTAGCAGCATGATGACCGCGCAGTGGTGGCCTT
서열번호 641	Ery-8	3	Ery-8_3	GGCCCGCCGGCGTGCCGGCATCGGTGGTAGCAGCATGATGACCGCGCAGTGGTGGCCTTG
서열번호 642	Ery-8	4	Ery-8_4	GCCCGCCGGCGTGCCGGCATCGGTGGTAGCAGCATGATGACCGCGCAGTGGTGGCCTTGG
서열번호 643	Ery-8	5	Ery-8_5	CCCGCCGGCGTGCCGGCATCGGTGGTAGCAGCATGATGACCGCGCAGTGGTGGCCTTGGA
서열번호 644	Ery-8	6	Ery-8_6	CCGCCGGCGTGCCGGCATCGGTGGTAGCAGCATGATGACCGCGCAGTGGTGGCCTTGGAT
서열번호 645	Ery-8	7	Ery-8_7	CGCCGGCGTGCCGGCATCGGTGGTAGCAGCATGATGACCGCGCAGTGGTGGCCTTGGATC
서열번호 646	Ery-8	8	Ery-8_8	GCCGGCGTGCCGGCATCGGTGGTAGCAGCATGATGACCGCGCAGTGGTGGCCTTGGATCG
서열번호 647	Ery-8	9	Ery-8_9	CCGGCGTGCCGGCATCGGTGGTAGCAGCATGATGACCGCGCAGTGGTGGCCTTGGATCGA
서열번호 648	Ery-8	10	Ery-8_10	CGGCGTGCCGGCATCGGTGGTAGCAGCATGATGACCGCGCAGTGGTGGCCTTGGATCGAC
서열번호 649	Ery-8	11	Ery-8_11	GGCGTGCCGGCATCGGTGGTAGCAGCATGATGACCGCGCAGTGGTGGCCTTGGATCGACT
서열번호 650	Ery-9	1	Ery-9_1	GTATTTACAAAAAATCAAATTCATGCAGTAATTAAATACCTAGGTATAAATCTTAATAAT
서열번호 651	Ery-9	2	Ery-9_2	TATTTACAAAAAATCAAATTCATGCAGTAATTAAATACCTAGGTATAAATCTTAATAATA
서열번호 652	Ery-9	3	Ery-9_3	ATTTACAAAAAATCAAATTCATGCAGTAATTAAATACCTAGGTATAAATCTTAATAATAT
서열번호 653	Ery-9	4	Ery-9_4	TTTACAAAAAATCAAATTCATGCAGTAATTAAATACCTAGGTATAAATCTTAATAATATT
서열번호 654	Ery-9	5	Ery-9_5	TTACAAAAAATCAAATTCATGCAGTAATTAAATACCTAGGTATAAATCTTAATAATATTA
서열번호 655	Ery-9	6	Ery-9_6	TACAAAAAATCAAATTCATGCAGTAATTAAATACCTAGGTATAAATCTTAATAATATTAG
서열번호 656	Ery-9	7	Ery-9_7	ACAAAAAATCAAATTCATGCAGTAATTAAATACCTAGGTATAAATCTTAATAATATTAGT
서열번호 657	Ery-9	8	Ery-9_8	CAAAAAATCAAATTCATGCAGTAATTAAATACCTAGGTATAAATCTTAATAATATTAGTG
서열번호 658	Ery-9	9	Ery-9_9	AAAAAATCAAATTCATGCAGTAATTAAATACCTAGGTATAAATCTTAATAATATTAGTGA
서열번호 659	Ery-9	10	Ery-9_10	AAAAATCAAATTCATGCAGTAATTAAATACCTAGGTATAAATCTTAATAATATTAGTGAA
서열번호 660	Ery-9	11	Ery-9_11	AAAATCAAATTCATGCAGTAATTAAATACCTAGGTATAAATCTTAATAATATTAGTGAAG
서열번호 661	Ery-10	1	Ery-10_1	TGAAACAGAAAAACCCGAAAAATACGCAAAATTTCATTACATCTAAAAAGCATGTAAAGG

서열번호 662	Ery-10	2	Ery-10_2	GAAACAGAAAAACCCGAAAAATACGCAAAATTTCATTACATCTAAAAAGCATGTAAAGGA
서열번호 663	Ery-10	3	Ery-10_3	AAACAGAAAAACCCGAAAAATACGCAAAATTTCATTACATCTAAAAAGCATGTAAAGGAA
서열번호 664	Ery-10	4	Ery-10_4	AACAGAAAAACCCGAAAAATACGCAAAATTTCATTACATCTAAAAAGCATGTAAAGGAAA
서열번호 665	Ery-10	5	Ery-10_5	ACAGAAAAACCCGAAAAATACGCAAAATTTCATTACATCTAAAAAGCATGTAAAGGAAAT
서열번호 666	Ery-10	6	Ery-10_6	CAGAAAAACCCGAAAAATACGCAAAATTTCATTACATCTAAAAAGCATGTAAAGGAAATA
서열번호 667	Ery-10	7	Ery-10_7	AGAAAAACCCGAAAAATACGCAAAATTTCATTACATCTAAAAAGCATGTAAAGGAAATAT
서열번호 668	Ery-10	8	Ery-10_8	GAAAAACCCGAAAAATACGCAAAATTTCATTACATCTAAAAAGCATGTAAAGGAAATATT
서열번호 669	Ery-10	9	Ery-10_9	AAAAACCCGAAAAATACGCAAAATTTCATTACATCTAAAAAGCATGTAAAGGAAATATTA
서열번호 670	Ery-10	10	Ery-10_10	AAAACCCGAAAAATACGCAAAATTTCATTACATCTAAAAAGCATGTAAAGGAAATATTAA
서열번호 671	Ery-10	11	Ery-10_11	AAACCCGAAAAATACGCAAAATTTCATTACATCTAAAAAGCATGTAAAGGAAATATTAAA
서열번호 672	Ery-11	1	Ery-11_1	TTGATAGGGGGTCTATTATTAGGGTTATTTGGGAATTACCAAAAGCGAATCTTATTAATA
서열번호 673	Ery-11	2	Ery-11_2	TGATAGGGGGTCTATTATTAGGGTTATTTGGGAATTACCAAAAGCGAATCTTATTAATAA
서열번호 674	Ery-11	3	Ery-11_3	GATAGGGGGTCTATTATTAGGGTTATTTGGGAATTACCAAAAGCGAATCTTATTAATAAC
서열번호 675	Ery-11	4	Ery-11_4	ATAGGGGGTCTATTATTAGGGTTATTTGGGAATTACCAAAAGCGAATCTTATTAATAACG
서열번호 676	Ery-11	5	Ery-11_5	TAGGGGGTCTATTATTAGGGTTATTTGGGAATTACCAAAAGCGAATCTTATTAATAACGG
서열번호 677	Ery-11	6	Ery-11_6	AGGGGGTCTATTATTAGGGTTATTTGGGAATTACCAAAAGCGAATCTTATTAATAACGGC
서열번호 678	Ery-11	7	Ery-11_7	GGGGGTCTATTATTAGGGTTATTTGGGAATTACCAAAAGCGAATCTTATTAATAACGGCA
서열번호 679	Ery-11	8	Ery-11_8	GGGGTCTATTATTAGGGTTATTTGGGAATTACCAAAAGCGAATCTTATTAATAACGGCAT
서열번호 680	Ery-11	9	Ery-11_9	GGGTCTATTATTAGGGTTATTTGGGAATTACCAAAAGCGAATCTTATTAATAACGGCATC
서열번호 681	Ery-11	10	Ery-11_10	GGTCTATTATTAGGGTTATTTGGGAATTACCAAAAGCGAATCTTATTAATAACGGCATCC
서열번호 682	Ery-11	11	Ery-11_11	GTCTATTATTAGGGTTATTTGGGAATTACCAAAAGCGAATCTTATTAATAACGGCATCCA
서열번호 683	Ery-12	1	Ery-12_1	CTAGCAGGAGGCTTATTATTAGGAAGATTAGGGGGCTTCGAAAAGCATGTATTACTAATA
서열번호 684	Ery-12	2	Ery-12_2	TAGCAGGAGGCTTATTATTAGGAAGATTAGGGGGCTTCGAAAAGCATGTATTACTAATAA
서열번호 685	Ery-12	3	Ery-12_3	AGCAGGAGGCTTATTATTAGGAAGATTAGGGGGCTTCGAAAAGCATGTATTACTAATAAC
서열번호 686	Ery-12	4	Ery-12_4	GCAGGAGGCTTATTATTAGGAAGATTAGGGGGCTTCGAAAAGCATGTATTACTAATAACA
서열번호 687	Ery-12	5	Ery-12_5	CAGGAGGCTTATTATTAGGAAGATTAGGGGGCTTCGAAAAGCATGTATTACTAATAACAA
서열번호 688	Ery-12	6	Ery-12_6	AGGAGGCTTATTATTAGGAAGATTAGGGGGCTTCGAAAAGCATGTATTACTAATAACAAG
서열번호 689	Ery-12	7	Ery-12_7	GGAGGCTTATTATTAGGAAGATTAGGGGGCTTCGAAAAGCATGTATTACTAATAACAAGT
서열번호 690	Ery-12	8	Ery-12_8	GAGGCTTATTATTAGGAAGATTAGGGGGCTTCGAAAAGCATGTATTACTAATAACAAGTT
서열번호 691	Ery-12	9	Ery-12_9	AGGCTTATTATTAGGAAGATTAGGGGGCTTCGAAAAGCATGTATTACTAATAACAAGTTC
서열번호 692	Ery-12	10	Ery-12_10	GGCTTATTATTAGGAAGATTAGGGGGCTTCGAAAAGCATGTATTACTAATAACAAGTTCA
서열번호 693	Ery-12	11	Ery-12_11	GCTTATTATTAGGAAGATTAGGGGGCTTCGAAAAGCATGTATTACTAATAACAAGTTCAT

서열번호 694	Ery-13	1	Ery-13_1	GGGAATTGATTGTTCTCCTAAAGTGCAAATGGCATACTATCGTCAACTTGCTTATGAAGA
서열번호 695	Ery-13	2	Ery-13_2	GGAATTGATTGTTCTCCTAAAGTGCAAATGGCATACTATCGTCAACTTGCTTATGAAGAC
서열번호 696	Ery-13	3	Ery-13_3	GAATTGATTGTTCTCCTAAAGTGCAAATGGCATACTATCGTCAACTTGCTTATGAAGACA
서열번호 697	Ery-13	4	Ery-13_4	AATTGATTGTTCTCCTAAAGTGCAAATGGCATACTATCGTCAACTTGCTTATGAAGACAT
서열번호 698	Ery-13	5	Ery-13_5	ATTGATTGTTCTCCTAAAGTGCAAATGGCATACTATCGTCAACTTGCTTATGAAGACATG
서열번호 699	Ery-13	6	Ery-13_6	TTGATTGTTCTCCTAAAGTGCAAATGGCATACTATCGTCAACTTGCTTATGAAGACATGC
서열번호 700	Ery-13	7	Ery-13_7	TGATTGTTCTCCTAAAGTGCAAATGGCATACTATCGTCAACTTGCTTATGAAGACATGCG
서열번호 701	Ery-13	8	Ery-13_8	GATTGTTCTCCTAAAGTGCAAATGGCATACTATCGTCAACTTGCTTATGAAGACATGCGT
서열번호 702	Ery-13	9	Ery-13_9	ATTGTTCTCCTAAAGTGCAAATGGCATACTATCGTCAACTTGCTTATGAAGACATGCGTG
서열번호 703	Ery-13	10	Ery-13_10	TTGTTCTCCTAAAGTGCAAATGGCATACTATCGTCAACTTGCTTATGAAGACATGCGTGA
서열번호 704	Ery-13	11	Ery-13_11	TGTTCTCCTAAAGTGCAAATGGCATACTATCGTCAACTTGCTTATGAAGACATGCGTGAC
서열번호 705	Fph-1	1	Fph-1_1	AAGAAATGATTCAATCTGAAAAAAGGGGTTCTACTAGGCTTTTAATGATGGTACTCTCCC
서열번호 706	Fph-1	2	Fph-1_2	AGAAATGATTCAATCTGAAAAAAGGGGTTCTACTAGGCTTTTAATGATGGTACTCTCCCT
서열번호 707	Fph-1	3	Fph-1_3	GAAATGATTCAATCTGAAAAAAGGGGTTCTACTAGGCTTTTAATGATGGTACTCTCCCTA
서열번호 708	Fph-1	4	Fph-1_4	AAATGATTCAATCTGAAAAAAGGGGTTCTACTAGGCTTTTAATGATGGTACTCTCCCTAT
서열번호 709	Fph-1	5	Fph-1_5	AATGATTCAATCTGAAAAAAGGGGTTCTACTAGGCTTTTAATGATGGTACTCTCCCTATC
서열번호 710	Fph-1	6	Fph-1_6	ATGATTCAATCTGAAAAAAGGGGTTCTACTAGGCTTTTAATGATGGTACTCTCCCTATCT
서열번호 711	Fph-1	7	Fph-1_7	TGATTCAATCTGAAAAAAGGGGTTCTACTAGGCTTTTAATGATGGTACTCTCCCTATCTG
서열번호 712	Fph-1	8	Fph-1_8	GATTCAATCTGAAAAAAGGGGTTCTACTAGGCTTTTAATGATGGTACTCTCCCTATCTGT
서열번호 713	Fph-1	9	Fph-1_9	ATTCAATCTGAAAAAAGGGGTTCTACTAGGCTTTTAATGATGGTACTCTCCCTATCTGTA
서열번호 714	Fph-1	10	Fph-1_10	TTCAATCTGAAAAAAGGGGTTCTACTAGGCTTTTAATGATGGTACTCTCCCTATCTGTAC
서열번호 715	Fph-1	11	Fph-1_11	TCAATCTGAAAAAAGGGGTTCTACTAGGCTTTTAATGATGGTACTCTCCCTATCTGTACT
서열번호 716	Fph-2	1	Fph-2_1	GCACTTTTAAACGGTGACACAGCGTGGCCCGTGATCTGTTACGCCACGGCGATGGCGGTA
서열번호 717	Fph-2	2	Fph-2_2	CACTTTTAAACGGTGACACAGCGTGGCCCGTGATCTGTTACGCCACGGCGATGGCGGTAC
서열번호 718	Fph-2	3	Fph-2_3	ACTTTTAAACGGTGACACAGCGTGGCCCGTGATCTGTTACGCCACGGCGATGGCGGTACT
서열번호 719	Fph-2	4	Fph-2_4	CTTTTAAACGGTGACACAGCGTGGCCCGTGATCTGTTACGCCACGGCGATGGCGGTACTG
서열번호 720	Fph-2	5	Fph-2_5	TTTTAAACGGTGACACAGCGTGGCCCGTGATCTGTTACGCCACGGCGATGGCGGTACTGG
서열번호 721	Fph-2	6	Fph-2_6	TTTAAACGGTGACACAGCGTGGCCCGTGATCTGTTACGCCACGGCGATGGCGGTACTGGT
서열번호 722	Fph-2	7	Fph-2_7	TTAAACGGTGACACAGCGTGGCCCGTGATCTGTTACGCCACGGCGATGGCGGTACTGGTT
서열번호 723	Fph-2	8	Fph-2_8	TAAACGGTGACACAGCGTGGCCCGTGATCTGTTACGCCACGGCGATGGCGGTACTGGTTT
서열번호 724	Fph-2	9	Fph-2_9	AAACGGTGACACAGCGTGGCCCGTGATCTGTTACGCCACGGCGATGGCGGTACTGGTTTC
서열번호 725	Fph-2	10	Fph-2_10	AACGGTGACACAGCGTGGCCCGTGATCTGTTACGCCACGGCGATGGCGGTACTGGTTTCG

서열번호 726	Fph-2	11	Fph-2_11	ACGGTGACACAGCGTGGCCCGTGATCTGTTACGCCACGGCGATGGCGGTACTGGTTTCGT
서열번호 727	Fph-3	1	Fph-3_1	CTGATCGGCGAGTTTTTCGGATGGCGGGCGATATTCGTAACGCTGGCCGCGCTTGCGTTA
서열번호 728	Fph-3	2	Fph-3_2	TGATCGGCGAGTTTTTCGGATGGCGGGCGATATTCGTAACGCTGGCCGCGCTTGCGTTAC
서열번호 729	Fph-3	3	Fph-3_3	GATCGGCGAGTTTTTCGGATGGCGGGCGATATTCGTAACGCTGGCCGCGCTTGCGTTACC
서열번호 730	Fph-3	4	Fph-3_4	ATCGGCGAGTTTTTCGGATGGCGGGCGATATTCGTAACGCTGGCCGCGCTTGCGTTACCC
서열번호 731	Fph-3	5	Fph-3_5	TCGGCGAGTTTTTCGGATGGCGGGCGATATTCGTAACGCTGGCCGCGCTTGCGTTACCCG
서열번호 732	Fph-3	6	Fph-3_6	CGGCGAGTTTTTCGGATGGCGGGCGATATTCGTAACGCTGGCCGCGCTTGCGTTACCCGC
서열번호 733	Fph-3	7	Fph-3_7	GGCGAGTTTTTCGGATGGCGGGCGATATTCGTAACGCTGGCCGCGCTTGCGTTACCCGCA
서열번호 734	Fph-3	8	Fph-3_8	GCGAGTTTTTCGGATGGCGGGCGATATTCGTAACGCTGGCCGCGCTTGCGTTACCCGCAC
서열번호 735	Fph-3	9	Fph-3_9	CGAGTTTTTCGGATGGCGGGCGATATTCGTAACGCTGGCCGCGCTTGCGTTACCCGCACT
서열번호 736	Fph-3	10	Fph-3_10	GAGTTTTTCGGATGGCGGGCGATATTCGTAACGCTGGCCGCGCTTGCGTTACCCGCACTC
서열번호 737	Fph-3	11	Fph-3_11	AGTTTTTCGGATGGCGGGCGATATTCGTAACGCTGGCCGCGCTTGCGTTACCCGCACTCT
서열번호 738	Fph-4	1	Fph-4_1	ACGCTGTTAAACGGCGATACAGCGTGGCCCGTGATTTGTTACGCCACGGCAATGGCAGTG
서열번호 739	Fph-4	2	Fph-4_2	CGCTGTTAAACGGCGATACAGCGTGGCCCGTGATTTGTTACGCCACGGCAATGGCAGTGC
서열번호 740	Fph-4	3	Fph-4_3	GCTGTTAAACGGCGATACAGCGTGGCCCGTGATTTGTTACGCCACGGCAATGGCAGTGCT
서열번호 741	Fph-4	4	Fph-4_4	CTGTTAAACGGCGATACAGCGTGGCCCGTGATTTGTTACGCCACGGCAATGGCAGTGCTG
서열번호 742	Fph-4	5	Fph-4_5	TGTTAAACGGCGATACAGCGTGGCCCGTGATTTGTTACGCCACGGCAATGGCAGTGCTGG
서열번호 743	Fph-4	6	Fph-4_6	GTTAAACGGCGATACAGCGTGGCCCGTGATTTGTTACGCCACGGCAATGGCAGTGCTGGT
서열번호 744	Fph-4	7	Fph-4_7	TTAAACGGCGATACAGCGTGGCCCGTGATTTGTTACGCCACGGCAATGGCAGTGCTGGTG
서열번호 745	Fph-4	8	Fph-4_8	TAAACGGCGATACAGCGTGGCCCGTGATTTGTTACGCCACGGCAATGGCAGTGCTGGTGT
서열번호 746	Fph-4	9	Fph-4_9	AAACGGCGATACAGCGTGGCCCGTGATTTGTTACGCCACGGCAATGGCAGTGCTGGTGTC
서열번호 747	Fph-4	10	Fph-4_10	AACGGCGATACAGCGTGGCCCGTGATTTGTTACGCCACGGCAATGGCAGTGCTGGTGTCG
서열번호 748	Fph-4	11	Fph-4_11	ACGGCGATACAGCGTGGCCCGTGATTTGTTACGCCACGGCAATGGCAGTGCTGGTGTCGT
서열번호 749	Fph-5	1	Fph-5_1	TGGCAATGAAAGACGGTGAGCTGGTGATATGGGATAGTGTTCACCCTTGTTACACCGTAT
서열번호 750	Fph-5	2	Fph-5_2	GGCAATGAAAGACGGTGAGCTGGTGATATGGGATAGTGTTCACCCTTGTTACACCGTATT
서열번호 751	Fph-5	3	Fph-5_3	GCAATGAAAGACGGTGAGCTGGTGATATGGGATAGTGTTCACCCTTGTTACACCGTATTC
서열번호 752	Fph-5	4	Fph-5_4	CAATGAAAGACGGTGAGCTGGTGATATGGGATAGTGTTCACCCTTGTTACACCGTATTCC
서열번호 753	Fph-5	5	Fph-5_5	AATGAAAGACGGTGAGCTGGTGATATGGGATAGTGTTCACCCTTGTTACACCGTATTCCA
서열번호 754	Fph-5	6	Fph-5_6	ATGAAAGACGGTGAGCTGGTGATATGGGATAGTGTTCACCCTTGTTACACCGTATTCCAT
서열번호 755	Fph-5	7	Fph-5_7	TGAAAGACGGTGAGCTGGTGATATGGGATAGTGTTCACCCTTGTTACACCGTATTCCATG
서열번호 756	Fph-5	8	Fph-5_8	GAAAGACGGTGAGCTGGTGATATGGGATAGTGTTCACCCTTGTTACACCGTATTCCATGA
서열번호 757	Fph-5	9	Fph-5_9	AAAGACGGTGAGCTGGTGATATGGGATAGTGTTCACCCTTGTTACACCGTATTCCATGAG

서열번호 758	Fph-5	10	Fph-5_10	AAGACGGTGAGCTGGTGATATGGGATAGTGTTCACCCTTGTTACACCGTATTCCATGAGC
서열번호 759	Fph-5	11	Fph-5_11	AGACGGTGAGCTGGTGATATGGGATAGTGTTCACCCTTGTTACACCGTATTCCATGAGCA
서열번호 760	Fosf-1	1	Fosf-1_1	AAACCCTGGGCTTCAGGTTGCACGCGAGCTGGAAGGCAGGGGCCTATCTCAGCCTGGGTG
서열번호 761	Fosf-1	2	Fosf-1_2	AACCCTGGGCTTCAGGTTGCACGCGAGCTGGAAGGCAGGGGCCTATCTCAGCCTGGGTGA
서열번호 762	Fosf-1	3	Fosf-1_3	ACCCTGGGCTTCAGGTTGCACGCGAGCTGGAAGGCAGGGGCCTATCTCAGCCTGGGTGAG
서열번호 763	Fosf-1	4	Fosf-1_4	CCCTGGGCTTCAGGTTGCACGCGAGCTGGAAGGCAGGGGCCTATCTCAGCCTGGGTGAGC
서열번호 764	Fosf-1	5	Fosf-1_5	CCTGGGCTTCAGGTTGCACGCGAGCTGGAAGGCAGGGGCCTATCTCAGCCTGGGTGAGCT
서열번호 765	Fosf-1	6	Fosf-1_6	CTGGGCTTCAGGTTGCACGCGAGCTGGAAGGCAGGGGCCTATCTCAGCCTGGGTGAGCTT
서열번호 766	Fosf-1	7	Fosf-1_7	TGGGCTTCAGGTTGCACGCGAGCTGGAAGGCAGGGGCCTATCTCAGCCTGGGTGAGCTTT
서열번호 767	Fosf-1	8	Fosf-1_8	GGGCTTCAGGTTGCACGCGAGCTGGAAGGCAGGGGCCTATCTCAGCCTGGGTGAGCTTTG
서열번호 768	Fosf-1	9	Fosf-1_9	GGCTTCAGGTTGCACGCGAGCTGGAAGGCAGGGGCCTATCTCAGCCTGGGTGAGCTTTGG
서열번호 769	Fosf-1	10	Fosf-1_10	GCTTCAGGTTGCACGCGAGCTGGAAGGCAGGGGCCTATCTCAGCCTGGGTGAGCTTTGGC
서열번호 770	Fosf-1	11	Fosf-1_11	CTTCAGGTTGCACGCGAGCTGGAAGGCAGGGGCCTATCTCAGCCTGGGTGAGCTTTGGCT
서열번호 771	Fosf-2	1	Fosf-2_1	CCCTGATGGTCATAAGCTAGAATTACATACTGGCACACTTGAGAACAGATTAAATTATTA
서열번호 772	Fosf-2	2	Fosf-2_2	CCTGATGGTCATAAGCTAGAATTACATACTGGCACACTTGAGAACAGATTAAATTATTAT
서열번호 773	Fosf-2	3	Fosf-2_3	CTGATGGTCATAAGCTAGAATTACATACTGGCACACTTGAGAACAGATTAAATTATTATA
서열번호 774	Fosf-2	4	Fosf-2_4	TGATGGTCATAAGCTAGAATTACATACTGGCACACTTGAGAACAGATTAAATTATTATAA
서열번호 775	Fosf-2	5	Fosf-2_5	GATGGTCATAAGCTAGAATTACATACTGGCACACTTGAGAACAGATTAAATTATTATAAA
서열번호 776	Fosf-2	6	Fosf-2_6	ATGGTCATAAGCTAGAATTACATACTGGCACACTTGAGAACAGATTAAATTATTATAAAG
서열번호 777	Fosf-2	7	Fosf-2_7	TGGTCATAAGCTAGAATTACATACTGGCACACTTGAGAACAGATTAAATTATTATAAAGA
서열번호 778	Fosf-2	8	Fosf-2_8	GGTCATAAGCTAGAATTACATACTGGCACACTTGAGAACAGATTAAATTATTATAAAGAG
서열번호 779	Fosf-2	9	Fosf-2_9	GTCATAAGCTAGAATTACATACTGGCACACTTGAGAACAGATTAAATTATTATAAAGAGG
서열번호 780	Fosf-2	10	Fosf-2_10	TCATAAGCTAGAATTACATACTGGCACACTTGAGAACAGATTAAATTATTATAAAGAGGC
서열번호 781	Fosf-2	11	Fosf-2_11	CATAAGCTAGAATTACATACTGGCACACTTGAGAACAGATTAAATTATTATAAAGAGGCT
서열번호 782	Fosf-3	1	Fosf-3_1	TGTGACAAGGTGATGCCAAGTAAGGATTATTCTCATATTGCCTTAGATATTTCAGAAGAT
서열번호 783	Fosf-3	2	Fosf-3_2	GTGACAAGGTGATGCCAAGTAAGGATTATTCTCATATTGCCTTAGATATTTCAGAAGATG
서열번호 784	Fosf-3	3	Fosf-3_3	TGACAAGGTGATGCCAAGTAAGGATTATTCTCATATTGCCTTAGATATTTCAGAAGATGA
서열번호 785	Fosf-3	4	Fosf-3_4	GACAAGGTGATGCCAAGTAAGGATTATTCTCATATTGCCTTAGATATTTCAGAAGATGAC
서열번호 786	Fosf-3	5	Fosf-3_5	ACAAGGTGATGCCAAGTAAGGATTATTCTCATATTGCCTTAGATATTTCAGAAGATGACT
서열번호 787	Fosf-3	6	Fosf-3_6	CAAGGTGATGCCAAGTAAGGATTATTCTCATATTGCCTTAGATATTTCAGAAGATGACTT
서열번호 788	Fosf-3	7	Fosf-3_7	AAGGTGATGCCAAGTAAGGATTATTCTCATATTGCCTTAGATATTTCAGAAGATGACTTT
서열번호 789	Fosf-3	8	Fosf-3_8	AGGTGATGCCAAGTAAGGATTATTCTCATATTGCCTTAGATATTTCAGAAGATGACTTTG

서열번호 790	Fosf-3	9	Fosf-3_9	GGTGATGCCAAGTAAGGATTATTCTCATATTGCCTTAGATATTTCAGAAGATGACTTTGC
서열번호 791	Fosf-3	10	Fosf-3_10	GTGATGCCAAGTAAGGATTATTCTCATATTGCCTTAGATATTTCAGAAGATGACTTTGCA
서열번호 792	Fosf-3	11	Fosf-3_11	TGATGCCAAGTAAGGATTATTCTCATATTGCCTTAGATATTTCAGAAGATGACTTTGCAT
서열번호 793	Fosf-4	1	Fosf-4_1	GCTTATGGGTTGCGTTAAACGAAGAAAAAGACATTCCTCGAAATGAAGTTCAATATTCGT
서열번호 794	Fosf-4	2	Fosf-4_2	CTTATGGGTTGCGTTAAACGAAGAAAAAGACATTCCTCGAAATGAAGTTCAATATTCGTA
서열번호 795	Fosf-4	3	Fosf-4_3	TTATGGGTTGCGTTAAACGAAGAAAAAGACATTCCTCGAAATGAAGTTCAATATTCGTAC
서열번호 796	Fosf-4	4	Fosf-4_4	TATGGGTTGCGTTAAACGAAGAAAAAGACATTCCTCGAAATGAAGTTCAATATTCGTACA
서열번호 797	Fosf-4	5	Fosf-4_5	ATGGGTTGCGTTAAACGAAGAAAAAGACATTCCTCGAAATGAAGTTCAATATTCGTACAC
서열번호 798	Fosf-4	6	Fosf-4_6	TGGGTTGCGTTAAACGAAGAAAAAGACATTCCTCGAAATGAAGTTCAATATTCGTACACA
서열번호 799	Fosf-4	7	Fosf-4_7	GGGTTGCGTTAAACGAAGAAAAAGACATTCCTCGAAATGAAGTTCAATATTCGTACACAC
서열번호 800	Fosf-4	8	Fosf-4_8	GGTTGCGTTAAACGAAGAAAAAGACATTCCTCGAAATGAAGTTCAATATTCGTACACACA
서열번호 801	Fosf-4	9	Fosf-4_9	GTTGCGTTAAACGAAGAAAAAGACATTCCTCGAAATGAAGTTCAATATTCGTACACACAT
서열번호 802	Fosf-4	10	Fosf-4_10	TTGCGTTAAACGAAGAAAAAGACATTCCTCGAAATGAAGTTCAATATTCGTACACACATG
서열번호 803	Fosf-4	11	Fosf-4_11	TGCGTTAAACGAAGAAAAAGACATTCCTCGAAATGAAGTTCAATATTCGTACACACATGT

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서열번호	TargetID	BPStart	프로브 명칭	염기서열
서열번호 804	Gen-1	1	Gen-1_1	CCCGAGTGAGGTGCATGCGAGCCTGTAGGACTCTATGTGCTTTGTAGGCCAGTCCACTGG
서열번호 805	Gen-1	2	Gen-1_2	CCGAGTGAGGTGCATGCGAGCCTGTAGGACTCTATGTGCTTTGTAGGCCAGTCCACTGGT
서열번호 806	Gen-1	3	Gen-1_3	CGAGTGAGGTGCATGCGAGCCTGTAGGACTCTATGTGCTTTGTAGGCCAGTCCACTGGTG
서열번호 807	Gen-1	4	Gen-1_4	GAGTGAGGTGCATGCGAGCCTGTAGGACTCTATGTGCTTTGTAGGCCAGTCCACTGGTGG
서열번호 808	Gen-1	5	Gen-1_5	AGTGAGGTGCATGCGAGCCTGTAGGACTCTATGTGCTTTGTAGGCCAGTCCACTGGTGGT
서열번호 809	Gen-1	6	Gen-1_6	GTGAGGTGCATGCGAGCCTGTAGGACTCTATGTGCTTTGTAGGCCAGTCCACTGGTGGTA
서열번호 810	Gen-1	7	Gen-1_7	TGAGGTGCATGCGAGCCTGTAGGACTCTATGTGCTTTGTAGGCCAGTCCACTGGTGGTAC
서열번호 811	Gen-1	8	Gen-1_8	GAGGTGCATGCGAGCCTGTAGGACTCTATGTGCTTTGTAGGCCAGTCCACTGGTGGTACT
서열번호 812	Gen-1	9	Gen-1_9	AGGTGCATGCGAGCCTGTAGGACTCTATGTGCTTTGTAGGCCAGTCCACTGGTGGTACTT
서열번호 813	Gen-1	10	Gen-1_10	GGTGCATGCGAGCCTGTAGGACTCTATGTGCTTTGTAGGCCAGTCCACTGGTGGTACTTC
서열번호 814	Gen-1	11	Gen-1_11	GTGCATGCGAGCCTGTAGGACTCTATGTGCTTTGTAGGCCAGTCCACTGGTGGTACTTCA
서열번호 815	Gen-2	1	Gen-2_1	CACCGGTTTGGACTCCGAGTTTTCGAATTGCCTCCGTTATTGCCTTCCGCGTATGCATCG
서열번호 816	Gen-2	2	Gen-2_2	ACCGGTTTGGACTCCGAGTTTTCGAATTGCCTCCGTTATTGCCTTCCGCGTATGCATCGC
서열번호 817	Gen-2	3	Gen-2_3	CCGGTTTGGACTCCGAGTTTTCGAATTGCCTCCGTTATTGCCTTCCGCGTATGCATCGCG

서열번호 818	Gen-2	4	Gen-2_4	CGGTTTGGACTCCGAGTTTTCGAATTGCCTCCGTTATTGCCTTCCGCGTATGCATCGCGA
서열번호 819	Gen-2	5	Gen-2_5	GGTTTGGACTCCGAGTTTTCGAATTGCCTCCGTTATTGCCTTCCGCGTATGCATCGCGAT
서열번호 820	Gen-2	6	Gen-2_6	GTTTGGACTCCGAGTTTTCGAATTGCCTCCGTTATTGCCTTCCGCGTATGCATCGCGATA
서열번호 821	Gen-2	7	Gen-2_7	TTTGGACTCCGAGTTTTCGAATTGCCTCCGTTATTGCCTTCCGCGTATGCATCGCGATAT
서열번호 822	Gen-2	8	Gen-2_8	TTGGACTCCGAGTTTTCGAATTGCCTCCGTTATTGCCTTCCGCGTATGCATCGCGATATC
서열번호 823	Gen-2	9	Gen-2_9	TGGACTCCGAGTTTTCGAATTGCCTCCGTTATTGCCTTCCGCGTATGCATCGCGATATCT
서열번호 824	Gen-2	10	Gen-2_10	GGACTCCGAGTTTTCGAATTGCCTCCGTTATTGCCTTCCGCGTATGCATCGCGATATCTC
서열번호 825	Gen-2	11	Gen-2_11	GACTCCGAGTTTTCGAATTGCCTCCGTTATTGCCTTCCGCGTATGCATCGCGATATCTCC
서열번호 826	Gen-3	1	Gen-3_1	TCGATCAGTCCAAGTGGCCCATCTTCGAGGGGCCGGACGCTACGGAAGGAGCTGTGGACC
서열번호 827	Gen-3	2	Gen-3_2	CGATCAGTCCAAGTGGCCCATCTTCGAGGGGCCGGACGCTACGGAAGGAGCTGTGGACCA
서열번호 828	Gen-3	3	Gen-3_3	GATCAGTCCAAGTGGCCCATCTTCGAGGGGCCGGACGCTACGGAAGGAGCTGTGGACCAG
서열번호 829	Gen-3	4	Gen-3_4	ATCAGTCCAAGTGGCCCATCTTCGAGGGGCCGGACGCTACGGAAGGAGCTGTGGACCAGC
서열번호 830	Gen-3	5	Gen-3_5	TCAGTCCAAGTGGCCCATCTTCGAGGGGCCGGACGCTACGGAAGGAGCTGTGGACCAGCA
서열번호 831	Gen-3	6	Gen-3_6	CAGTCCAAGTGGCCCATCTTCGAGGGGCCGGACGCTACGGAAGGAGCTGTGGACCAGCAG
서열번호 832	Gen-3	7	Gen-3_7	AGTCCAAGTGGCCCATCTTCGAGGGGCCGGACGCTACGGAAGGAGCTGTGGACCAGCAGC
서열번호 833	Gen-3	8	Gen-3_8	GTCCAAGTGGCCCATCTTCGAGGGGCCGGACGCTACGGAAGGAGCTGTGGACCAGCAGCA
서열번호 834	Gen-3	9	Gen-3_9	TCCAAGTGGCCCATCTTCGAGGGGCCGGACGCTACGGAAGGAGCTGTGGACCAGCAGCAC
서열번호 835	Gen-3	10	Gen-3_10	CCAAGTGGCCCATCTTCGAGGGGCCGGACGCTACGGAAGGAGCTGTGGACCAGCAGCACA
서열번호 836	Gen-3	11	Gen-3_11	CAAGTGGCCCATCTTCGAGGGGCCGGACGCTACGGAAGGAGCTGTGGACCAGCAGCACAC
서열번호 837	Kan-1	1	Kan-1_1	CAAGAAGCGGTTGTTGGCGCTCTCGCGGCTTACGTTCTGCCAAAGTTTGAGCAGGCGCGT
서열번호 838	Kan-1	2	Kan-1_2	AAGAAGCGGTTGTTGGCGCTCTCGCGGCTTACGTTCTGCCAAAGTTTGAGCAGGCGCGTA
서열번호 839	Kan-1	3	Kan-1_3	AGAAGCGGTTGTTGGCGCTCTCGCGGCTTACGTTCTGCCAAAGTTTGAGCAGGCGCGTAG
서열번호 840	Kan-1	4	Kan-1_4	GAAGCGGTTGTTGGCGCTCTCGCGGCTTACGTTCTGCCAAAGTTTGAGCAGGCGCGTAGT
서열번호 841	Kan-1	5	Kan-1_5	AAGCGGTTGTTGGCGCTCTCGCGGCTTACGTTCTGCCAAAGTTTGAGCAGGCGCGTAGTG
서열번호 842	Kan-1	6	Kan-1_6	AGCGGTTGTTGGCGCTCTCGCGGCTTACGTTCTGCCAAAGTTTGAGCAGGCGCGTAGTGA
서열번호 843	Kan-1	7	Kan-1_7	GCGGTTGTTGGCGCTCTCGCGGCTTACGTTCTGCCAAAGTTTGAGCAGGCGCGTAGTGAG
서열번호 844	Kan-1	8	Kan-1_8	CGGTTGTTGGCGCTCTCGCGGCTTACGTTCTGCCAAAGTTTGAGCAGGCGCGTAGTGAGA
서열번호 845	Kan-1	9	Kan-1_9	GGTTGTTGGCGCTCTCGCGGCTTACGTTCTGCCAAAGTTTGAGCAGGCGCGTAGTGAGAT
서열번호 846	Kan-1	10	Kan-1_10	GTTGTTGGCGCTCTCGCGGCTTACGTTCTGCCAAAGTTTGAGCAGGCGCGTAGTGAGATC
서열번호 847	Kan-1	11	Kan-1_11	TTGTTGGCGCTCTCGCGGCTTACGTTCTGCCAAAGTTTGAGCAGGCGCGTAGTGAGATCT
서열번호 848	Kan-2	1	Kan-2_1	CTTGGAAGAAACGGTGAAGTCGCCTGGAAAACGGCATCAGAATACGATTCAAACGGCATT
서열번호 849	Kan-2	2	Kan-2_2	TTGGAAGAAACGGTGAAGTCGCCTGGAAAACGGCATCAGAATACGATTCAAACGGCATTC

서열번호 850	Kan-2	3	Kan-2_3	TGGAAGAAACGGTGAAGTCGCCTGGAAAACGGCATCAGAATACGATTCAAACGG CATTCT
서열번호 851	Kan-2	4	Kan-2_4	GGAAGAAACGGTGAAGTCGCCTGGAAAACGGCATCAGAATACGATTCAAACGGC ATTCTC
서열번호 852	Kan-2	5	Kan-2_5	GAAGAAACGGTGAAGTCGCCTGGAAAACGGCATCAGAATACGATTCAAACGGCA TTCTCG
서열번호 853	Kan-2	6	Kan-2_6	AAGAAACGGTGAAGTCGCCTGGAAAACGGCATCAGAATACGATTCAAACGGCAT TCTCGA
서열번호 854	Kan-2	7	Kan-2_7	AGAAACGGTGAAGTCGCCTGGAAAACGGCATCAGAATACGATTCAAACGGCATT CTCGAT
서열번호 855	Kan-2	8	Kan-2_8	GAAACGGTGAAGTCGCCTGGAAAACGGCATCAGAATACGATTCAAACGGCATTC TCGATT
서열번호 856	Kan-2	9	Kan-2_9	AAACGGTGAAGTCGCCTGGAAAACGGCATCAGAATACGATTCAAACGGCATTCT CGATTG
서열번호 857	Kan-2	10	Kan-2_10	AACGGTGAAGTCGCCTGGAAAACGGCATCAGAATACGATTCAAACGGCATTCTC GATTGC
서열번호 858	Kan-2	11	Kan-2_11	ACGGTGAAGTCGCCTGGAAAACGGCATCAGAATACGATTCAAACGGCATTCTCG ATTGCT
서열번호 859	Kan-3	1	Kan-3_1	GCAGGCGCTCATGGATGCGCTCACGCCCGACGGCACGCTGATGATGTATGCGGG ATGGCA
서열번호 860	Kan-3	2	Kan-3_2	CAGGCGCTCATGGATGCGCTCACGCCCGACGGCACGCTGATGATGTATGCGGGA TGGCAA
서열번호 861	Kan-3	3	Kan-3_3	AGGCGCTCATGGATGCGCTCACGCCCGACGGCACGCTGATGATGTATGCGGGAT GGCAAG
서열번호 862	Kan-3	4	Kan-3_4	GGCGCTCATGGATGCGCTCACGCCCGACGGCACGCTGATGATGTATGCGGGATG GCAAGA
서열번호 863	Kan-3	5	Kan-3_5	GCGCTCATGGATGCGCTCACGCCCGACGGCACGCTGATGATGTATGCGGGATGG CAAGAC
서열번호 864	Kan-3	6	Kan-3_6	CGCTCATGGATGCGCTCACGCCCGACGGCACGCTGATGATGTATGCGGGATGGC AAGACA
서열번호 865	Kan-3	7	Kan-3_7	GCTCATGGATGCGCTCACGCCCGACGGCACGCTGATGATGTATGCGGGATGGCA AGACAT
서열번호 866	Kan-3	8	Kan-3_8	CTCATGGATGCGCTCACGCCCGACGGCACGCTGATGATGTATGCGGGATGGCAA GACATC
서열번호 867	Kan-3	9	Kan-3_9	TCATGGATGCGCTCACGCCCGACGGCACGCTGATGATGTATGCGGGATGGCAAG ACATCC
서열번호 868	Kan-3	10	Kan-3_10	CATGGATGCGCTCACGCCCGACGGCACGCTGATGATGTATGCGGGATGGCAAGA CATCCC
서열번호 869	Kan-3	11	Kan-3_11	ATGGATGCGCTCACGCCCGACGGCACGCTGATGATGTATGCGGGATGGCAAGAC ATCCCC
서열번호 870	Kan-4	1	Kan-4_1	CTGGTCGATGCCGCGGCGATCACCGCCTTCGGCGTCACCTGGCTCGAAAAACGG TTCGGT
서열번호 871	Kan-4	2	Kan-4_2	TGGTCGATGCCGCGGCGATCACCGCCTTCGGCGTCACCTGGCTCGAAAAACGGT TCGGTA
서열번호 872	Kan-4	3	Kan-4_3	GGTCGATGCCGCGGCGATCACCGCCTTCGGCGTCACCTGGCTCGAAAAACGGTT CGGTAC
서열번호 873	Kan-4	4	Kan-4_4	GTCGATGCCGCGGCGATCACCGCCTTCGGCGTCACCTGGCTCGAAAAACGGTTC GGTACG
서열번호 874	Kan-4	5	Kan-4_5	TCGATGCCGCGGCGATCACCGCCTTCGGCGTCACCTGGCTCGAAAAACGGTTCG GTACGC
서열번호 875	Kan-4	6	Kan-4_6	CGATGCCGCGGCGATCACCGCCTTCGGCGTCACCTGGCTCGAAAAACGGTTCGG TACGCC
서열번호 876	Kan-4	7	Kan-4_7	GATGCCGCGGCGATCACCGCCTTCGGCGTCACCTGGCTCGAAAAACGGTTCGGT ACGCCC
서열번호 877	Kan-4	8	Kan-4_8	ATGCCGCGGCGATCACCGCCTTCGGCGTCACCTGGCTCGAAAAACGGTTCGGTA CGCCCT
서열번호 878	Kan-4	9	Kan-4_9	TGCCGCGGCGATCACCGCCTTCGGCGTCACCTGGCTCGAAAAACGGTTCGGTAC GCCCTC
서열번호 879	Kan-4	10	Kan-4_10	GCCGCGGCGATCACCGCCTTCGGCGTCACCTGGCTCGAAAAACGGTTCGGTACG CCCTCG
서열번호 880	Kan-4	11	Kan-4_11	CCGCGGCGATCACCGCCTTCGGCGTCACCTGGCTCGAAAAACGGTTCGGTACGC CCTCGC
서열번호 881	Kan-5	1	Kan-5_1	CTGGTCGATGCTGCCGCAATCACGGCTTTCGGCGTCGCCTGGCTGGAATCGCGC TTCGGC

서열번호 882	Kan-5	2	Kan-5_2	TGGTCGATGCTGCCGCAATCACGGCTTTCGGCGTCGCCTGGCTGGAATCGCGCTTCGGCT
서열번호 883	Kan-5	3	Kan-5_3	GGTCGATGCTGCCGCAATCACGGCTTTCGGCGTCGCCTGGCTGGAATCGCGCTTCGGCTC
서열번호 884	Kan-5	4	Kan-5_4	GTCGATGCTGCCGCAATCACGGCTTTCGGCGTCGCCTGGCTGGAATCGCGCTTCGGCTCG
서열번호 885	Kan-5	5	Kan-5_5	TCGATGCTGCCGCAATCACGGCTTTCGGCGTCGCCTGGCTGGAATCGCGCTTCGGCTCGC
서열번호 886	Kan-5	6	Kan-5_6	CGATGCTGCCGCAATCACGGCTTTCGGCGTCGCCTGGCTGGAATCGCGCTTCGGCTCGCC
서열번호 887	Kan-5	7	Kan-5_7	GATGCTGCCGCAATCACGGCTTTCGGCGTCGCCTGGCTGGAATCGCGCTTCGGCTCGCCC
서열번호 888	Kan-5	8	Kan-5_8	ATGCTGCCGCAATCACGGCTTTCGGCGTCGCCTGGCTGGAATCGCGCTTCGGCTCGCCCT
서열번호 889	Kan-5	9	Kan-5_9	TGCTGCCGCAATCACGGCTTTCGGCGTCGCCTGGCTGGAATCGCGCTTCGGCTCGCCCTC
서열번호 890	Kan-5	10	Kan-5_10	GCTGCCGCAATCACGGCTTTCGGCGTCGCCTGGCTGGAATCGCGCTTCGGCTCGCCCTCA
서열번호 891	Kan-5	11	Kan-5_11	CTGCCGCAATCACGGCTTTCGGCGTCGCCTGGCTGGAATCGCGCTTCGGCTCGCCCTCAT
서열번호 892	Kan-6	1	Kan-6_1	CGAATATGCCGCGCCCGACGGCCCCGACGCGGTCGAACGGATCGCCCGCGACTATCTCGC
서열번호 893	Kan-6	2	Kan-6_2	GAATATGCCGCGCCCGACGGCCCCGACGCGGTCGAACGGATCGCCCGCGACTATCTCGCC
서열번호 894	Kan-6	3	Kan-6_3	AATATGCCGCGCCCGACGGCCCCGACGCGGTCGAACGGATCGCCCGCGACTATCTCGCCC
서열번호 895	Kan-6	4	Kan-6_4	ATATGCCGCGCCCGACGGCCCCGACGCGGTCGAACGGATCGCCCGCGACTATCTCGCCCG
서열번호 896	Kan-6	5	Kan-6_5	TATGCCGCGCCCGACGGCCCCGACGCGGTCGAACGGATCGCCCGCGACTATCTCGCCCGC
서열번호 897	Kan-6	6	Kan-6_6	ATGCCGCGCCCGACGGCCCCGACGCGGTCGAACGGATCGCCCGCGACTATCTCGCCCGCA
서열번호 898	Kan-6	7	Kan-6_7	TGCCGCGCCCGACGGCCCCGACGCGGTCGAACGGATCGCCCGCGACTATCTCGCCCGCAC
서열번호 899	Kan-6	8	Kan-6_8	GCCGCGCCCGACGGCCCCGACGCGGTCGAACGGATCGCCCGCGACTATCTCGCCCGCACC
서열번호 900	Kan-6	9	Kan-6_9	CCGCGCCCGACGGCCCCGACGCGGTCGAACGGATCGCCCGCGACTATCTCGCCCGCACCA
서열번호 901	Kan-6	10	Kan-6_10	CGCGCCCGACGGCCCCGACGCGGTCGAACGGATCGCCCGCGACTATCTCGCCCGCACCAG
서열번호 902	Kan-6	11	Kan-6_11	GCGCCCGACGGCCCCGACGCGGTCGAACGGATCGCCCGCGACTATCTCGCCCGCACCAGG
서열번호 903	Kan-6	12	Kan-6_12	CGCCCGACGGCCCCGACGCGGTCGAACGGATCGCCCGCGACTATCTCGCCCGCACCAGGG
서열번호 904	Kan-6	13	Kan-6_13	GCCCGACGGCCCCGACGCGGTCGAACGGATCGCCCGCGACTATCTCGCCCGCACCAGGGT
서열번호 905	Kan-6	14	Kan-6_14	CCCGACGGCCCCGACGCGGTCGAACGGATCGCCCGCGACTATCTCGCCCGCACCAGGGTT
서열번호 906	Kan-6	15	Kan-6_15	CCGACGGCCCCGACGCGGTCGAACGGATCGCCCGCGACTATCTCGCCCGCACCAGGGTTG
서열번호 907	Kan-6	16	Kan-6_16	CGACGGCCCCGACGCGGTCGAACGGATCGCCCGCGACTATCTCGCCCGCACCAGGGTTGC
서열번호 908	Kan-6	17	Kan-6_17	GACGGCCCCGACGCGGTCGAACGGATCGCCCGCGACTATCTCGCCCGCACCAGGGTTGCG
서열번호 909	Kan-7	1	Kan-7_1	CTTCTGCGTCCGGTCGATCAGGGAGGATATCGGGGAAGAACAGTATGTCGAGCTATTTTT
서열번호 910	Kan-7	2	Kan-7_2	TTCTGCGTCCGGTCGATCAGGGAGGATATCGGGGAAGAACAGTATGTCGAGCTATTTTTT
서열번호 911	Kan-7	3	Kan-7_3	TCTGCGTCCGGTCGATCAGGGAGGATATCGGGGAAGAACAGTATGTCGAGCTATTTTTTG
서열번호 912	Kan-7	4	Kan-7_4	CTGCGTCCGGTCGATCAGGGAGGATATCGGGGAAGAACAGTATGTCGAGCTATTTTTTGA
서열번호 913	Kan-7	5	Kan-7_5	TGCGTCCGGTCGATCAGGGAGGATATCGGGGAAGAACAGTATGTCGAGCTATTTTTTGAC

서열번호 914	Kan-7	6	Kan-7_6	GCGTCCGGTCGATCAGGGAGGATATCGGGGAAGAACAGTATGTCGAGCTATTTTTTGACT
서열번호 915	Kan-7	7	Kan-7_7	CGTCCGGTCGATCAGGGAGGATATCGGGGAAGAACAGTATGTCGAGCTATTTTTTGACTT
서열번호 916	Kan-7	8	Kan-7_8	GTCCGGTCGATCAGGGAGGATATCGGGGAAGAACAGTATGTCGAGCTATTTTTTGACTTA
서열번호 917	Kan-7	9	Kan-7_9	TCCGGTCGATCAGGGAGGATATCGGGGAAGAACAGTATGTCGAGCTATTTTTTGACTTAC
서열번호 918	Kan-7	10	Kan-7_10	CCGGTCGATCAGGGAGGATATCGGGGAAGAACAGTATGTCGAGCTATTTTTTGACTTACT
서열번호 919	Kan-7	11	Kan-7_11	CGGTCGATCAGGGAGGATATCGGGGAAGAACAGTATGTCGAGCTATTTTTTGACTTACTG
서열번호 920	Kan-8	1	Kan-8_1	CTGCCCATTTTCATCCAAAATAGATGTTCGATTAAAAGAACTAAAATATCTTTTGGATAA
서열번호 921	Kan-8	2	Kan-8_2	TGCCCATTTTCATCCAAAATAGATGTTCGATTAAAAGAACTAAAATATCTTTTGGATAAC
서열번호 922	Kan-8	3	Kan-8_3	GCCCATTTTCATCCAAAATAGATGTTCGATTAAAAGAACTAAAATATCTTTTGGATAACA
서열번호 923	Kan-8	4	Kan-8_4	CCCATTTTCATCCAAAATAGATGTTCGATTAAAAGAACTAAAATATCTTTTGGATAACAG
서열번호 924	Kan-8	5	Kan-8_5	CCATTTTCATCCAAAATAGATGTTCGATTAAAAGAACTAAAATATCTTTTGGATAACAGA
서열번호 925	Kan-8	6	Kan-8_6	CATTTTCATCCAAAATAGATGTTCGATTAAAAGAACTAAAATATCTTTTGGATAACAGAA
서열번호 926	Kan-8	7	Kan-8_7	ATTTTCATCCAAAATAGATGTTCGATTAAAAGAACTAAAATATCTTTTGGATAACAGAAT
서열번호 927	Kan-8	8	Kan-8_8	TTTTCATCCAAAATAGATGTTCGATTAAAAGAACTAAAATATCTTTTGGATAACAGAATT
서열번호 928	Kan-8	9	Kan-8_9	TTTCATCCAAAATAGATGTTCGATTAAAAGAACTAAAATATCTTTTGGATAACAGAATTG
서열번호 929	Kan-8	10	Kan-8_10	TTCATCCAAAATAGATGTTCGATTAAAAGAACTAAAATATCTTTTGGATAACAGAATTGC
서열번호 930	Kan-8	11	Kan-8_11	TCATCCAAAATAGATGTTCGATTAAAAGAACTAAAATATCTTTTGGATAACAGAATTGCC
서열번호 931	Kan-10	1	Kan-10_1	CCGTTATCAGGACATCAGCCTGGCGATCCGCAGCCTCCGGCACGATTACGGCGACGACCG
서열번호 932	Kan-10	2	Kan-10_2	CGTTATCAGGACATCAGCCTGGCGATCCGCAGCCTCCGGCACGATTACGGCGACGACCGC
서열번호 933	Kan-10	3	Kan-10_3	GTTATCAGGACATCAGCCTGGCGATCCGCAGCCTCCGGCACGATTACGGCGACGACCGCT
서열번호 934	Kan-10	4	Kan-10_4	TTATCAGGACATCAGCCTGGCGATCCGCAGCCTCCGGCACGATTACGGCGACGACCGCTA
서열번호 935	Kan-10	5	Kan-10_5	TATCAGGACATCAGCCTGGCGATCCGCAGCCTCCGGCACGATTACGGCGACGACCGCTAC
서열번호 936	Kan-10	6	Kan-10_6	ATCAGGACATCAGCCTGGCGATCCGCAGCCTCCGGCACGATTACGGCGACGACCGCTACA
서열번호 937	Kan-10	7	Kan-10_7	TCAGGACATCAGCCTGGCGATCCGCAGCCTCCGGCACGATTACGGCGACGACCGCTACAA
서열번호 938	Kan-10	8	Kan-10_8	CAGGACATCAGCCTGGCGATCCGCAGCCTCCGGCACGATTACGGCGACGACCGCTACAAA
서열번호 939	Kan-10	9	Kan-10_9	AGGACATCAGCCTGGCGATCCGCAGCCTCCGGCACGATTACGGCGACGACCGCTACAAAG
서열번호 940	Kan-10	10	Kan-10_10	GGACATCAGCCTGGCGATCCGCAGCCTCCGGCACGATTACGGCGACGACCGCTACAAAGC
서열번호 941	Kan-10	11	Kan-10_11	GACATCAGCCTGGCGATCCGCAGCCTCCGGCACGATTACGGCGACGACCGCTACAAAGCG
서열번호 942	Kan-11	1	Kan-11_1	AGCCATATTCAACGGGAAACGTCTTGCTCGAGGCCGCGATTAAATTCCAACATGGATGCT
서열번호 943	Kan-11	2	Kan-11_2	GCCATATTCAACGGGAAACGTCTTGCTCGAGGCCGCGATTAAATTCCAACATGGATGCTG
서열번호 944	Kan-11	3	Kan-11_3	CCATATTCAACGGGAAACGTCTTGCTCGAGGCCGCGATTAAATTCCAACATGGATGCTGA
서열번호 945	Kan-11	4	Kan-11_4	CATATTCAACGGGAAACGTCTTGCTCGAGGCCGCGATTAAATTCCAACATGGATGCTGAT

서열번호 946	Kan-11	5	Kan-11_5	ATATTCAACGGGAAACGTCTTGCTCGAGGCCGCGATTAAATTCCAACATGGATG CTGATT
서열번호 947	Kan-11	6	Kan-11_6	TATTCAACGGGAAACGTCTTGCTCGAGGCCGCGATTAAATTCCAACATGGATGC TGATTT
서열번호 948	Kan-11	7	Kan-11_7	ATTCAACGGGAAACGTCTTGCTCGAGGCCGCGATTAAATTCCAACATGGATGCT GATTTA
서열번호 949	Kan-11	8	Kan-11_8	TTCAACGGGAAACGTCTTGCTCGAGGCCGCGATTAAATTCCAACATGGATGCTG ATTTAT
서열번호 950	Kan-11	9	Kan-11_9	TCAACGGGAAACGTCTTGCTCGAGGCCGCGATTAAATTCCAACATGGATGCTGA TTTATA
서열번호 951	Kan-11	10	Kan-11_10	CAACGGGAAACGTCTTGCTCGAGGCCGCGATTAAATTCCAACATGGATGCTGAT TTATAT
서열번호 952	Kan-11	11	Kan-11_11	AACGGGAAACGTCTTGCTCGAGGCCGCGATTAAATTCCAACATGGATGCTGATT TATATG
서열번호 953	Kan-12	1	Kan-12_1	AACGATATTGATCGAGAAGAGCCCTGCGCAGCCGCTGCCGTGCCCGAGAGCATG GCGGCT
서열번호 954	Kan-12	2	Kan-12_2	ACGATATTGATCGAGAAGAGCCCTGCGCAGCCGCTGCCGTGCCCGAGAGCATGG CGGCTC
서열번호 955	Kan-12	3	Kan-12_3	CGATATTGATCGAGAAGAGCCCTGCGCAGCCGCTGCCGTGCCCGAGAGCATGGC GGCTCA
서열번호 956	Kan-12	4	Kan-12_4	GATATTGATCGAGAAGAGCCCTGCGCAGCCGCTGCCGTGCCCGAGAGCATGGCG GCTCAC
서열번호 957	Kan-12	5	Kan-12_5	ATATTGATCGAGAAGAGCCCTGCGCAGCCGCTGCCGTGCCCGAGAGCATGGCGG CTCACG
서열번호 958	Kan-12	6	Kan-12_6	TATTGATCGAGAAGAGCCCTGCGCAGCCGCTGCCGTGCCCGAGAGCATGGCGGC TCACGT
서열번호 959	Kan-12	7	Kan-12_7	ATTGATCGAGAAGAGCCCTGCGCAGCCGCTGCCGTGCCCGAGAGCATGGCGGCT CACGTG
서열번호 960	Kan-12	8	Kan-12_8	TTGATCGAGAAGAGCCCTGCGCAGCCGCTGCCGTGCCCGAGAGCATGGCGGCTC ACGTGA
서열번호 961	Kan-12	9	Kan-12_9	TGATCGAGAAGAGCCCTGCGCAGCCGCTGCCGTGCCCGAGAGCATGGCGGCTCA CGTGAT
서열번호 962	Kan-12	10	Kan-12_10	GATCGAGAAGAGCCCTGCGCAGCCGCTGCCGTGCCCGAGAGCATGGCGGCTCAC GTGATG
서열번호 963	Kan-12	11	Kan-12_11	ATCGAGAAGAGCCCTGCGCAGCCGCTGCCGTGCCCGAGAGCATGGCGGCTCACG TGATGG
서열번호 964	Kan-13	1	Kan-13_1	TTTAAAGCATTTAAAAAATGATAGACCTGACAAAAGGAATTATTTTTTAAAACT TGATGA
서열번호 965	Kan-13	2	Kan-13_2	TTAAAGCATTTAAAAAATGATAGACCTGACAAAAGGAATTATTTTTTAAAACTT GATGAA
서열번호 966	Kan-13	3	Kan-13_3	TAAAGCATTTAAAAAATGATAGACCTGACAAAAGGAATTATTTTTTAAAACTTG ATGAAT
서열번호 967	Kan-13	4	Kan-13_4	AAAGCATTTAAAAAATGATAGACCTGACAAAAGGAATTATTTTTTAAAACTTGA TGAATT
서열번호 968	Kan-13	5	Kan-13_5	AAGCATTTAAAAAATGATAGACCTGACAAAAGGAATTATTTTTTAAAACTTGAT GAATTG
서열번호 969	Kan-13	6	Kan-13_6	AGCATTTAAAAAATGATAGACCTGACAAAAGGAATTATTTTTTAAAACTTGATG AATTGA
서열번호 970	Kan-13	7	Kan-13_7	GCATTTAAAAAATGATAGACCTGACAAAAGGAATTATTTTTTAAAACTTGATGA ATTGAA
서열번호 971	Kan-13	8	Kan-13_8	CATTTAAAAAATGATAGACCTGACAAAAGGAATTATTTTTTAAAACTTGATGAA TTGAAT
서열번호 972	Kan-13	9	Kan-13_9	ATTTAAAAAATGATAGACCTGACAAAAGGAATTATTTTTTAAAACTTGATGAAT TGAATT
서열번호 973	Kan-13	10	Kan-13_10	TTTAAAAAATGATAGACCTGACAAAAGGAATTATTTTTTAAAACTTGATGAATT GAATTG
서열번호 974	Kan-13	11	Kan-13_11	TTAAAAAATGATAGACCTGACAAAAGGAATTATTTTTTAAAACTTGATGAATTG AATTGA
서열번호 975	Kan-14	1	Kan-14_1	GGGTGGACCCTGGCCCGGCTCCTGCAGAACACCCTGTGGGACATCGAGGACGGG CTGACG
서열번호 976	Kan-14	2	Kan-14_2	GGTGGACCCTGGCCCGGCTCCTGCAGAACACCCTGTGGGACATCGAGGACGGGC TGACGG
서열번호 977	Kan-14	3	Kan-14_3	GTGGACCCTGGCCCGGCTCCTGCAGAACACCCTGTGGGACATCGAGGACGGGCT GACGGC

서열번호 978	Kan-14	4	Kan-14_4	TGGACCCTGGCCCGGCTCCTGCAGAACACCCTGTGGGACATCGAGGACGGGCTGACGGCG
서열번호 979	Kan-14	5	Kan-14_5	GGACCCTGGCCCGGCTCCTGCAGAACACCCTGTGGGACATCGAGGACGGGCTGACGGCGA
서열번호 980	Kan-14	6	Kan-14_6	GACCCTGGCCCGGCTCCTGCAGAACACCCTGTGGGACATCGAGGACGGGCTGACGGCGAT
서열번호 981	Kan-14	7	Kan-14_7	ACCCTGGCCCGGCTCCTGCAGAACACCCTGTGGGACATCGAGGACGGGCTGACGGCGATC
서열번호 982	Kan-14	8	Kan-14_8	CCCTGGCCCGGCTCCTGCAGAACACCCTGTGGGACATCGAGGACGGGCTGACGGCGATCG
서열번호 983	Kan-14	9	Kan-14_9	CCTGGCCCGGCTCCTGCAGAACACCCTGTGGGACATCGAGGACGGGCTGACGGCGATCGC
서열번호 984	Kan-14	10	Kan-14_10	CTGGCCCGGCTCCTGCAGAACACCCTGTGGGACATCGAGGACGGGCTGACGGCGATCGCC
서열번호 985	Kan-14	11	Kan-14_11	TGGCCCGGCTCCTGCAGAACACCCTGTGGGACATCGAGGACGGGCTGACGGCGATCGCCC
서열번호 986	Lin-1	1	Lin-1_1	AAAAAGTTATACAAAAATTAGAAGATATAGGATACAAAATAGAAGTTCATTGGATGCCTT
서열번호 987	Lin-1	2	Lin-1_2	AAAAGTTATACAAAAATTAGAAGATATAGGATACAAAATAGAAGTTCATTGGATGCCTTC
서열번호 988	Lin-1	3	Lin-1_3	AAAGTTATACAAAAATTAGAAGATATAGGATACAAAATAGAAGTTCATTGGATGCCTTCA
서열번호 989	Lin-1	4	Lin-1_4	AAGTTATACAAAAATTAGAAGATATAGGATACAAAATAGAAGTTCATTGGATGCCTTCAC
서열번호 990	Lin-1	5	Lin-1_5	AGTTATACAAAAATTAGAAGATATAGGATACAAAATAGAAGTTCATTGGATGCCTTCACG
서열번호 991	Lin-1	6	Lin-1_6	GTTATACAAAAATTAGAAGATATAGGATACAAAATAGAAGTTCATTGGATGCCTTCACGT
서열번호 992	Lin-1	7	Lin-1_7	TTATACAAAAATTAGAAGATATAGGATACAAAATAGAAGTTCATTGGATGCCTTCACGTA
서열번호 993	Lin-1	8	Lin-1_8	TATACAAAAATTAGAAGATATAGGATACAAAATAGAAGTTCATTGGATGCCTTCACGTAT
서열번호 994	Lin-1	9	Lin-1_9	ATACAAAAATTAGAAGATATAGGATACAAAATAGAAGTTCATTGGATGCCTTCACGTATG
서열번호 995	Lin-1	10	Lin-1_10	TACAAAAATTAGAAGATATAGGATACAAAATAGAAGTTCATTGGATGCCTTCACGTATGG
서열번호 996	Lin-1	11	Lin-1_11	ACAAAAATTAGAAGATATAGGATACAAAATAGAAGTTCATTGGATGCCTTCACGTATGGA
서열번호 997	Lin-2	1	Lin-2_1	GATTAGATAAGGTAGAATTATTTGAAGCCTATAAAAATTCTTTGCTATTAGTTATGGATT
서열번호 998	Lin-2	2	Lin-2_2	ATTAGATAAGGTAGAATTATTTGAAGCCTATAAAAATTCTTTGCTATTAGTTATGGATTT
서열번호 999	Lin-2	3	Lin-2_3	TTAGATAAGGTAGAATTATTTGAAGCCTATAAAAATTCTTTGCTATTAGTTATGGATTTG
서열번호 1000	Lin-2	4	Lin-2_4	TAGATAAGGTAGAATTATTTGAAGCCTATAAAAATTCTTTGCTATTAGTTATGGATTTGC
서열번호 1001	Lin-2	5	Lin-2_5	AGATAAGGTAGAATTATTTGAAGCCTATAAAAATTCTTTGCTATTAGTTATGGATTTGCA
서열번호 1002	Lin-2	6	Lin-2_6	GATAAGGTAGAATTATTTGAAGCCTATAAAAATTCTTTGCTATTAGTTATGGATTTGCAA
서열번호 1003	Lin-2	7	Lin-2_7	ATAAGGTAGAATTATTTGAAGCCTATAAAAATTCTTTGCTATTAGTTATGGATTTGCAAA
서열번호 1004	Lin-2	8	Lin-2_8	TAAGGTAGAATTATTTGAAGCCTATAAAAATTCTTTGCTATTAGTTATGGATTTGCAAAG
서열번호 1005	Lin-2	9	Lin-2_9	AAGGTAGAATTATTTGAAGCCTATAAAAATTCTTTGCTATTAGTTATGGATTTGCAAAGT
서열번호 1006	Lin-2	10	Lin-2_10	AGGTAGAATTATTTGAAGCCTATAAAAATTCTTTGCTATTAGTTATGGATTTGCAAAGTC
서열번호 1007	Lin-2	11	Lin-2_11	GGTAGAATTATTTGAAGCCTATAAAAATTCTTTGCTATTAGTTATGGATTTGCAAAGTCA
서열번호 1008	Lin-3	1	Lin-3_1	GTCAAGGTACGCGAGTGCTCTCGTGGGCAGTCCCCCGAAACGTGAAGGCGCGCCGCTGGT
서열번호 1009	Lin-3	2	Lin-3_2	TCAAGGTACGCGAGTGCTCTCGTGGGCAGTCCCCCGAAACGTGAAGGCGCGCCGCTGGTG

서열번호 1010	Lin-3	3	Lin-3_3	CAAGGTACGCGAGTGCTCTCGTGGGCAGTCCCCCGAAACGTGAAGGCGCGCCGCTGGTGG
서열번호 1011	Lin-3	4	Lin-3_4	AAGGTACGCGAGTGCTCTCGTGGGCAGTCCCCCGAAACGTGAAGGCGCGCCGCTGGTGGA
서열번호 1012	Lin-3	5	Lin-3_5	AGGTACGCGAGTGCTCTCGTGGGCAGTCCCCCGAAACGTGAAGGCGCGCCGCTGGTGGAA
서열번호 1013	Lin-3	6	Lin-3_6	GGTACGCGAGTGCTCTCGTGGGCAGTCCCCCGAAACGTGAAGGCGCGCCGCTGGTGGAAG
서열번호 1014	Lin-3	7	Lin-3_7	GTACGCGAGTGCTCTCGTGGGCAGTCCCCCGAAACGTGAAGGCGCGCCGCTGGTGGAAGG
서열번호 1015	Lin-3	8	Lin-3_8	TACGCGAGTGCTCTCGTGGGCAGTCCCCCGAAACGTGAAGGCGCGCCGCTGGTGGAAGGA
서열번호 1016	Lin-3	9	Lin-3_9	ACGCGAGTGCTCTCGTGGGCAGTCCCCCGAAACGTGAAGGCGCGCCGCTGGTGGAAGGAC
서열번호 1017	Lin-3	10	Lin-3_10	CGCGAGTGCTCTCGTGGGCAGTCCCCCGAAACGTGAAGGCGCGCCGCTGGTGGAAGGACT
서열번호 1018	Lin-3	11	Lin-3_11	GCGAGTGCTCTCGTGGGCAGTCCCCCGAAACGTGAAGGCGCGCCGCTGGTGGAAGGACTT

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서열번호	TargetID	BPStart	프로브 명칭	염기서열
서열번호 1019	Lin-4	1	Lin-4_1	TGCTCGCACGGTTCGGGCAGGGCGCAGGAGAGGCCCTCTCCCTGCCGGCCGCGATGTCGC
서열번호 1020	Lin-4	2	Lin-4_2	GCTCGCACGGTTCGGGCAGGGCGCAGGAGAGGCCCTCTCCCTGCCGGCCGCGATGTCGCT
서열번호 1021	Lin-4	3	Lin-4_3	CTCGCACGGTTCGGGCAGGGCGCAGGAGAGGCCCTCTCCCTGCCGGCCGCGATGTCGCTC
서열번호 1022	Lin-4	4	Lin-4_4	TCGCACGGTTCGGGCAGGGCGCAGGAGAGGCCCTCTCCCTGCCGGCCGCGATGTCGCTCA
서열번호 1023	Lin-4	5	Lin-4_5	CGCACGGTTCGGGCAGGGCGCAGGAGAGGCCCTCTCCCTGCCGGCCGCGATGTCGCTCAT
서열번호 1024	Lin-4	6	Lin-4_6	GCACGGTTCGGGCAGGGCGCAGGAGAGGCCCTCTCCCTGCCGGCCGCGATGTCGCTCATC
서열번호 1025	Lin-4	7	Lin-4_7	CACGGTTCGGGCAGGGCGCAGGAGAGGCCCTCTCCCTGCCGGCCGCGATGTCGCTCATCG
서열번호 1026	Lin-4	8	Lin-4_8	ACGGTTCGGGCAGGGCGCAGGAGAGGCCCTCTCCCTGCCGGCCGCGATGTCGCTCATCGC
서열번호 1027	Lin-4	9	Lin-4_9	CGGTTCGGGCAGGGCGCAGGAGAGGCCCTCTCCCTGCCGGCCGCGATGTCGCTCATCGCC
서열번호 1028	Lin-4	10	Lin-4_10	GGTTCGGGCAGGGCGCAGGAGAGGCCCTCTCCCTGCCGGCCGCGATGTCGCTCATCGCCT
서열번호 1029	Lin-4	11	Lin-4_11	GTTCGGGCAGGGCGCAGGAGAGGCCCTCTCCCTGCCGGCCGCGATGTCGCTCATCGCCTG
서열번호 1030	Lin-5	1	Lin-5_1	TGGATGTTCTGTCTGTCATCCTTTCGGTGTTTGCCTTCGGTGGTTTGGTGTACGGCTTCA
서열번호 1031	Lin-5	2	Lin-5_2	GGATGTTCTGTCTGTCATCCTTTCGGTGTTTGCCTTCGGTGGTTTGGTGTACGGCTTCAG
서열번호 1032	Lin-5	3	Lin-5_3	GATGTTCTGTCTGTCATCCTTTCGGTGTTTGCCTTCGGTGGTTTGGTGTACGGCTTCAGT
서열번호 1033	Lin-5	4	Lin-5_4	ATGTTCTGTCTGTCATCCTTTCGGTGTTTGCCTTCGGTGGTTTGGTGTACGGCTTCAGTT
서열번호 1034	Lin-5	5	Lin-5_5	TGTTCTGTCTGTCATCCTTTCGGTGTTTGCCTTCGGTGGTTTGGTGTACGGCTTCAGTTC
서열번호 1035	Lin-5	6	Lin-5_6	GTTCTGTCTGTCATCCTTTCGGTGTTTGCCTTCGGTGGTTTGGTGTACGGCTTCAGTTCC
서열번호 1036	Lin-5	7	Lin-5_7	TTCTGTCTGTCATCCTTTCGGTGTTTGCCTTCGGTGGTTTGGTGTACGGCTTCAGTTCCT
서열번호 1037	Lin-5	8	Lin-5_8	TCTGTCTGTCATCCTTTCGGTGTTTGCCTTCGGTGGTTTGGTGTACGGCTTCAGTTCCTT

서열번호 1038	Lin-5	9	Lin-5_9	CTGTCTGTCATCCTTTCGGTGTTTGCCTTCGGTGGTTTGGTGTACGGCTTCAGTTCCTTC
서열번호 1039	Lin-5	10	Lin-5_10	TGTCTGTCATCCTTTCGGTGTTTGCCTTCGGTGGTTTGGTGTACGGCTTCAGTTCCTTCG
서열번호 1040	Lin-5	11	Lin-5_11	GTCTGTCATCCTTTCGGTGTTTGCCTTCGGTGGTTTGGTGTACGGCTTCAGTTCCTTCGG
서열번호 1041	Lin-6	1	Lin-6_1	TTTTTGTAGAAAAGAACGATTATCAGAACTTTATAGAAATAATGAAAGCTAATGGCTTTT
서열번호 1042	Lin-6	2	Lin-6_2	TTTTGTAGAAAAGAACGATTATCAGAACTTTATAGAAATAATGAAAGCTAATGGCTTTTA
서열번호 1043	Lin-6	3	Lin-6_3	TTTGTAGAAAAGAACGATTATCAGAACTTTATAGAAATAATGAAAGCTAATGGCTTTTAT
서열번호 1044	Lin-6	4	Lin-6_4	TTGTAGAAAAGAACGATTATCAGAACTTTATAGAAATAATGAAAGCTAATGGCTTTTATG
서열번호 1045	Lin-6	5	Lin-6_5	TGTAGAAAAGAACGATTATCAGAACTTTATAGAAATAATGAAAGCTAATGGCTTTTATGA
서열번호 1046	Lin-6	6	Lin-6_6	GTAGAAAAGAACGATTATCAGAACTTTATAGAAATAATGAAAGCTAATGGCTTTTATGAG
서열번호 1047	Lin-6	7	Lin-6_7	TAGAAAAGAACGATTATCAGAACTTTATAGAAATAATGAAAGCTAATGGCTTTTATGAGA
서열번호 1048	Lin-6	8	Lin-6_8	AGAAAAGAACGATTATCAGAACTTTATAGAAATAATGAAAGCTAATGGCTTTTATGAGAT
서열번호 1049	Lin-6	9	Lin-6_9	GAAAAGAACGATTATCAGAACTTTATAGAAATAATGAAAGCTAATGGCTTTTATGAGATT
서열번호 1050	Lin-6	10	Lin-6_10	AAAAGAACGATTATCAGAACTTTATAGAAATAATGAAAGCTAATGGCTTTTATGAGATTA
서열번호 1051	Lin-6	11	Lin-6_11	AAAGAACGATTATCAGAACTTTATAGAAATAATGAAAGCTAATGGCTTTTATGAGATTAA
서열번호 1052	Met-1	1	Met-1_1	GAAATATTATTAGCTGATTCAGGTTACGGACAAGGTGAAATACTGATTAACCCAGTACAG
서열번호 1053	Met-1	2	Met-1_2	AAATATTATTAGCTGATTCAGGTTACGGACAAGGTGAAATACTGATTAACCCAGTACAGA
서열번호 1054	Met-1	3	Met-1_3	AATATTATTAGCTGATTCAGGTTACGGACAAGGTGAAATACTGATTAACCCAGTACAGAT
서열번호 1055	Met-1	4	Met-1_4	ATATTATTAGCTGATTCAGGTTACGGACAAGGTGAAATACTGATTAACCCAGTACAGATC
서열번호 1056	Met-1	5	Met-1_5	TATTATTAGCTGATTCAGGTTACGGACAAGGTGAAATACTGATTAACCCAGTACAGATCC
서열번호 1057	Met-1	6	Met-1_6	ATTATTAGCTGATTCAGGTTACGGACAAGGTGAAATACTGATTAACCCAGTACAGATCCT
서열번호 1058	Met-1	7	Met-1_7	TTATTAGCTGATTCAGGTTACGGACAAGGTGAAATACTGATTAACCCAGTACAGATCCTT
서열번호 1059	Met-1	8	Met-1_8	TATTAGCTGATTCAGGTTACGGACAAGGTGAAATACTGATTAACCCAGTACAGATCCTTT
서열번호 1060	Met-1	9	Met-1_9	ATTAGCTGATTCAGGTTACGGACAAGGTGAAATACTGATTAACCCAGTACAGATCCTTTC
서열번호 1061	Met-1	10	Met-1_10	TTAGCTGATTCAGGTTACGGACAAGGTGAAATACTGATTAACCCAGTACAGATCCTTTCA
서열번호 1062	Met-1	11	Met-1_11	TAGCTGATTCAGGTTACGGACAAGGTGAAATACTGATTAACCCAGTACAGATCCTTTCAA
서열번호 1063	Met-2	1	Met-2_1	AAAGGACTGGAGTCCAAAAACCATTCGTACACTTATAACGAGATTGTATAAAAAGGGATT
서열번호 1064	Met-2	2	Met-2_2	AAGGACTGGAGTCCAAAAACCATTCGTACACTTATAACGAGATTGTATAAAAAGGGATTT
서열번호 1065	Met-2	3	Met-2_3	AGGACTGGAGTCCAAAAACCATTCGTACACTTATAACGAGATTGTATAAAAAGGGATTTA
서열번호 1066	Met-2	4	Met-2_4	GGACTGGAGTCCAAAAACCATTCGTACACTTATAACGAGATTGTATAAAAAGGGATTTAT
서열번호 1067	Met-2	5	Met-2_5	GACTGGAGTCCAAAAACCATTCGTACACTTATAACGAGATTGTATAAAAAGGGATTTATA
서열번호 1068	Met-2	6	Met-2_6	ACTGGAGTCCAAAAACCATTCGTACACTTATAACGAGATTGTATAAAAAGGGATTTATAG
서열번호 1069	Met-2	7	Met-2_7	CTGGAGTCCAAAAACCATTCGTACACTTATAACGAGATTGTATAAAAAGGGATTTATAGA

서열번호 1070	Met-2	8	Met-2_8	TGGAGTCCAAAAACCATTCGTACACTTATAACGAGATTGTATAAAAAGGGATTTATAGAT
서열번호 1071	Met-2	9	Met-2_9	GGAGTCCAAAAACCATTCGTACACTTATAACGAGATTGTATAAAAAGGGATTTATAGATC
서열번호 1072	Met-2	10	Met-2_10	GAGTCCAAAAACCATTCGTACACTTATAACGAGATTGTATAAAAAGGGATTTATAGATCG
서열번호 1073	Met-2	11	Met-2_11	AGTCCAAAAACCATTCGTACACTTATAACGAGATTGTATAAAAAGGGATTTATAGATCGT
서열번호 1074	Met-3	1	Met-3_1	TAGCTCCGTATTTCAAAGGATTTGATGGAAGTTTTGTGCTTTATAATGAACGGGAGCAAG
서열번호 1075	Met-3	2	Met-3_2	AGCTCCGTATTTCAAAGGATTTGATGGAAGTTTTGTGCTTTATAATGAACGGGAGCAAGC
서열번호 1076	Met-3	3	Met-3_3	GCTCCGTATTTCAAAGGATTTGATGGAAGTTTTGTGCTTTATAATGAACGGGAGCAAGCT
서열번호 1077	Met-3	4	Met-3_4	CTCCGTATTTCAAAGGATTTGATGGAAGTTTTGTGCTTTATAATGAACGGGAGCAAGCTT
서열번호 1078	Met-3	5	Met-3_5	TCCGTATTTCAAAGGATTTGATGGAAGTTTTGTGCTTTATAATGAACGGGAGCAAGCTTA
서열번호 1079	Met-3	6	Met-3_6	CCGTATTTCAAAGGATTTGATGGAAGTTTTGTGCTTTATAATGAACGGGAGCAAGCTTAT
서열번호 1080	Met-3	7	Met-3_7	CGTATTTCAAAGGATTTGATGGAAGTTTTGTGCTTTATAATGAACGGGAGCAAGCTTATT
서열번호 1081	Met-3	8	Met-3_8	GTATTTCAAAGGATTTGATGGAAGTTTTGTGCTTTATAATGAACGGGAGCAAGCTTATTC
서열번호 1082	Met-3	9	Met-3_9	TATTTCAAAGGATTTGATGGAAGTTTTGTGCTTTATAATGAACGGGAGCAAGCTTATTCT
서열번호 1083	Met-3	10	Met-3_10	ATTTCAAAGGATTTGATGGAAGTTTTGTGCTTTATAATGAACGGGAGCAAGCTTATTCTA
서열번호 1084	Met-3	11	Met-3_11	TTTCAAAGGATTTGATGGAAGTTTTGTGCTTTATAATGAACGGGAGCAAGCTTATTCTAT
서열번호 1085	Met-4	1	Met-4_1	GATAATCCGATGGTATTTGGTTTAGTGAAATCCCAAATTGTACTACCAACTGTCGTAGTC
서열번호 1086	Met-4	2	Met-4_2	ATAATCCGATGGTATTTGGTTTAGTGAAATCCCAAATTGTACTACCAACTGTCGTAGTCG
서열번호 1087	Met-4	3	Met-4_3	TAATCCGATGGTATTTGGTTTAGTGAAATCCCAAATTGTACTACCAACTGTCGTAGTCGA
서열번호 1088	Met-4	4	Met-4_4	AATCCGATGGTATTTGGTTTAGTGAAATCCCAAATTGTACTACCAACTGTCGTAGTCGAA
서열번호 1089	Met-4	5	Met-4_5	ATCCGATGGTATTTGGTTTAGTGAAATCCCAAATTGTACTACCAACTGTCGTAGTCGAAA
서열번호 1090	Met-4	6	Met-4_6	TCCGATGGTATTTGGTTTAGTGAAATCCCAAATTGTACTACCAACTGTCGTAGTCGAAAC
서열번호 1091	Met-4	7	Met-4_7	CCGATGGTATTTGGTTTAGTGAAATCCCAAATTGTACTACCAACTGTCGTAGTCGAAACC
서열번호 1092	Met-4	8	Met-4_8	CGATGGTATTTGGTTTAGTGAAATCCCAAATTGTACTACCAACTGTCGTAGTCGAAACCA
서열번호 1093	Met-4	9	Met-4_9	GATGGTATTTGGTTTAGTGAAATCCCAAATTGTACTACCAACTGTCGTAGTCGAAACCAT
서열번호 1094	Met-4	10	Met-4_10	ATGGTATTTGGTTTAGTGAAATCCCAAATTGTACTACCAACTGTCGTAGTCGAAACCATG
서열번호 1095	Met-4	11	Met-4_11	TGGTATTTGGTTTAGTGAAATCCCAAATTGTACTACCAACTGTCGTAGTCGAAACCATGA
서열번호 1096	AmiNe-2	1	AmiNe-2_1	GGCGCATCGGGCTTCCCATACAATCGATAGATTGTCGCACCTGATTGCCCGACATTATCG
서열번호 1097	AmiNe-2	2	AmiNe-2_2	GCGCATCGGGCTTCCCATACAATCGATAGATTGTCGCACCTGATTGCCCGACATTATCGC
서열번호 1098	AmiNe-2	3	AmiNe-2_3	CGCATCGGGCTTCCCATACAATCGATAGATTGTCGCACCTGATTGCCCGACATTATCGCG
서열번호 1099	AmiNe-2	4	AmiNe-2_4	GCATCGGGCTTCCCATACAATCGATAGATTGTCGCACCTGATTGCCCGACATTATCGCGA
서열번호 1100	AmiNe-2	5	AmiNe-2_5	CATCGGGCTTCCCATACAATCGATAGATTGTCGCACCTGATTGCCCGACATTATCGCGAG
서열번호 1101	AmiNe-2	6	AmiNe-2_6	ATCGGGCTTCCCATACAATCGATAGATTGTCGCACCTGATTGCCCGACATTATCGCGAGC

서열번호 1102	AmiNe-2	7	AmiNe-2_7	TCGGGCTTCCCATACAATCGATAGATTGTCGCACCTGATTGCCCGACATTATCGCGAGCC
서열번호 1103	AmiNe-2	8	AmiNe-2_8	CGGGCTTCCCATACAATCGATAGATTGTCGCACCTGATTGCCCGACATTATCGCGAGCCC
서열번호 1104	AmiNe-2	9	AmiNe-2_9	GGGCTTCCCATACAATCGATAGATTGTCGCACCTGATTGCCCGACATTATCGCGAGCCCA
서열번호 1105	AmiNe-2	10	AmiNe-2_10	GGCTTCCCATACAATCGATAGATTGTCGCACCTGATTGCCCGACATTATCGCGAGCCCAT
서열번호 1106	AmiNe-2	11	AmiNe-2_11	GCTTCCCATACAATCGATAGATTGTCGCACCTGATTGCCCGACATTATCGCGAGCCCATT
서열번호 1107	Pen-1	1	Pen-1_1	TTTAAAACCCCTTGATATCAATGAGAAAACGCTTCAACAAGGGATACAACTGGCACAATC
서열번호 1108	Pen-1	2	Pen-1_2	TTAAAACCCCTTGATATCAATGAGAAAACGCTTCAACAAGGGATACAACTGGCACAATCT
서열번호 1109	Pen-1	3	Pen-1_3	TAAAACCCCTTGATATCAATGAGAAAACGCTTCAACAAGGGATACAACTGGCACAATCTC
서열번호 1110	Pen-1	4	Pen-1_4	AAAACCCCTTGATATCAATGAGAAAACGCTTCAACAAGGGATACAACTGGCACAATCTCG
서열번호 1111	Pen-1	5	Pen-1_5	AAACCCCTTGATATCAATGAGAAAACGCTTCAACAAGGGATACAACTGGCACAATCTCGC
서열번호 1112	Pen-1	6	Pen-1_6	AACCCCTTGATATCAATGAGAAAACGCTTCAACAAGGGATACAACTGGCACAATCTCGCT
서열번호 1113	Pen-1	7	Pen-1_7	ACCCCTTGATATCAATGAGAAAACGCTTCAACAAGGGATACAACTGGCACAATCTCGCTA
서열번호 1114	Pen-1	8	Pen-1_8	CCCCTTGATATCAATGAGAAAACGCTTCAACAAGGGATACAACTGGCACAATCTCGCTAC
서열번호 1115	Pen-1	9	Pen-1_9	CCCTTGATATCAATGAGAAAACGCTTCAACAAGGGATACAACTGGCACAATCTCGCTACT
서열번호 1116	Pen-1	10	Pen-1_10	CCTTGATATCAATGAGAAAACGCTTCAACAAGGGATACAACTGGCACAATCTCGCTACTG
서열번호 1117	Pen-1	11	Pen-1_11	CTTGATATCAATGAGAAAACGCTTCAACAAGGGATACAACTGGCACAATCTCGCTACTGG
서열번호 1118	Pen-2	1	Pen-2_1	AAATGGGACGGCAAGCCCAGAGCCATGAAGCAATGGGAAAAAGACTTAAAGCTAAGGGGC
서열번호 1119	Pen-2	2	Pen-2_2	AATGGGACGGCAAGCCCAGAGCCATGAAGCAATGGGAAAAAGACTTAAAGCTAAGGGGCG
서열번호 1120	Pen-2	3	Pen-2_3	ATGGGACGGCAAGCCCAGAGCCATGAAGCAATGGGAAAAAGACTTAAAGCTAAGGGGCGC
서열번호 1121	Pen-2	4	Pen-2_4	TGGGACGGCAAGCCCAGAGCCATGAAGCAATGGGAAAAAGACTTAAAGCTAAGGGGCGCT
서열번호 1122	Pen-2	5	Pen-2_5	GGGACGGCAAGCCCAGAGCCATGAAGCAATGGGAAAAAGACTTAAAGCTAAGGGGCGCTA
서열번호 1123	Pen-2	6	Pen-2_6	GGACGGCAAGCCCAGAGCCATGAAGCAATGGGAAAAAGACTTAAAGCTAAGGGGCGCTAT
서열번호 1124	Pen-2	7	Pen-2_7	GACGGCAAGCCCAGAGCCATGAAGCAATGGGAAAAAGACTTAAAGCTAAGGGGCGCTATA
서열번호 1125	Pen-2	8	Pen-2_8	ACGGCAAGCCCAGAGCCATGAAGCAATGGGAAAAAGACTTAAAGCTAAGGGGCGCTATAC
서열번호 1126	Pen-2	9	Pen-2_9	CGGCAAGCCCAGAGCCATGAAGCAATGGGAAAAAGACTTAAAGCTAAGGGGCGCTATACA
서열번호 1127	Pen-2	10	Pen-2_10	GGCAAGCCCAGAGCCATGAAGCAATGGGAAAAAGACTTAAAGCTAAGGGGCGCTATACAG
서열번호 1128	Pen-2	11	Pen-2_11	GCAAGCCCAGAGCCATGAAGCAATGGGAAAAAGACTTAAAGCTAAGGGGCGCTATACAGG
서열번호 1129	Pen-3	1	Pen-3_1	TCGACCGCTTCAACATTGAACGACTCGCTCTATTCTATAGAACAACGCACCTTGGGACGC
서열번호 1130	Pen-3	2	Pen-3_2	CGACCGCTTCAACATTGAACGACTCGCTCTATTCTATAGAACAACGCACCTTGGGACGCA
서열번호 1131	Pen-3	3	Pen-3_3	GACCGCTTCAACATTGAACGACTCGCTCTATTCTATAGAACAACGCACCTTGGGACGCAT
서열번호 1132	Pen-3	4	Pen-3_4	ACCGCTTCAACATTGAACGACTCGCTCTATTCTATAGAACAACGCACCTTGGGACGCATA
서열번호 1133	Pen-3	5	Pen-3_5	CCGCTTCAACATTGAACGACTCGCTCTATTCTATAGAACAACGCACCTTGGGACGCATAG

서열번호 1134	Pen-3	6	Pen-3_6	CGCTTCAACATTGAACGACTCGCTCTATTCTATAGAACAACGCACCTTGGGACG CATAGG
서열번호 1135	Pen-3	7	Pen-3_7	GCTTCAACATTGAACGACTCGCTCTATTCTATAGAACAACGCACCTTGGGACGC ATAGGC
서열번호 1136	Pen-3	8	Pen-3_8	CTTCAACATTGAACGACTCGCTCTATTCTATAGAACAACGCACCTTGGGACGCA TAGGCG
서열번호 1137	Pen-3	9	Pen-3_9	TTCAACATTGAACGACTCGCTCTATTCTATAGAACAACGCACCTTGGGACGCAT AGGCGT
서열번호 1138	Pen-3	10	Pen-3_10	TCAACATTGAACGACTCGCTCTATTCTATAGAACAACGCACCTTGGGACGCATA GGCGTA
서열번호 1139	Pen-3	11	Pen-3_11	CAACATTGAACGACTCGCTCTATTCTATAGAACAACGCACCTTGGGACGCATAG GCGTAT
서열번호 1140	Pen-4	1	Pen-4_1	TACGAAAGAAGACTTAGTGGATTATTCACCTGTTACAGAGAAACATGTAGATAC TGGAAT
서열번호 1141	Pen-4	2	Pen-4_2	ACGAAAGAAGACTTAGTGGATTATTCACCTGTTACAGAGAAACATGTAGATACT GGAATG
서열번호 1142	Pen-4	3	Pen-4_3	CGAAAGAAGACTTAGTGGATTATTCACCTGTTACAGAGAAACATGTAGATACTG GAATGA
서열번호 1143	Pen-4	4	Pen-4_4	GAAAGAAGACTTAGTGGATTATTCACCTGTTACAGAGAAACATGTAGATACTGG AATGAC
서열번호 1144	Pen-4	5	Pen-4_5	AAAGAAGACTTAGTGGATTATTCACCTGTTACAGAGAAACATGTAGATACTGGA ATGACA
서열번호 1145	Pen-4	6	Pen-4_6	AAGAAGACTTAGTGGATTATTCACCTGTTACAGAGAAACATGTAGATACTGGAA TGACAC
서열번호 1146	Pen-4	7	Pen-4_7	AGAAGACTTAGTGGATTATTCACCTGTTACAGAGAAACATGTAGATACTGGAAT GACACT
서열번호 1147	Pen-4	8	Pen-4_8	GAAGACTTAGTGGATTATTCACCTGTTACAGAGAAACATGTAGATACTGGAATG ACACTA
서열번호 1148	Pen-4	9	Pen-4_9	AAGACTTAGTGGATTATTCACCTGTTACAGAGAAACATGTAGATACTGGAATGA CACTAG
서열번호 1149	Pen-4	10	Pen-4_10	AGACTTAGTGGATTATTCACCTGTTACAGAGAAACATGTAGATACTGGAATGAC ACTAGG
서열번호 1150	Pen-4	11	Pen-4_11	GACTTAGTGGATTATTCACCTGTTACAGAGAAACATGTAGATACTGGAATGACA CTAGGA
서열번호 1151	Pen-5	1	Pen-5_1	TCCAGGGAAAGGACATACAGAAGATAATATCGTCGTATGGTTACCACAATACAA CATGTT
서열번호 1152	Pen-5	2	Pen-5_2	CCAGGGAAAGGACATACAGAAGATAATATCGTCGTATGGTTACCACAATACAAC ATGTTA
서열번호 1153	Pen-5	3	Pen-5_3	CAGGGAAAGGACATACAGAAGATAATATCGTCGTATGGTTACCACAATACAACA TGTTAG
서열번호 1154	Pen-5	4	Pen-5_4	AGGGAAAGGACATACAGAAGATAATATCGTCGTATGGTTACCACAATACAACAT GTTAGT
서열번호 1155	Pen-5	5	Pen-5_5	GGGAAAGGACATACAGAAGATAATATCGTCGTATGGTTACCACAATACAACATG TTAGTT
서열번호 1156	Pen-5	6	Pen-5_6	GGAAAGGACATACAGAAGATAATATCGTCGTATGGTTACCACAATACAACATGT TAGTTG
서열번호 1157	Pen-5	7	Pen-5_7	GAAAGGACATACAGAAGATAATATCGTCGTATGGTTACCACAATACAACATGTT AGTTGG
서열번호 1158	Pen-5	8	Pen-5_8	AAAGGACATACAGAAGATAATATCGTCGTATGGTTACCACAATACAACATGTTA GTTGGA
서열번호 1159	Pen-5	9	Pen-5_9	AAGGACATACAGAAGATAATATCGTCGTATGGTTACCACAATACAACATGTTAG TTGGAG
서열번호 1160	Pen-5	10	Pen-5_10	AGGACATACAGAAGATAATATCGTCGTATGGTTACCACAATACAACATGTTAGT TGGAGG
서열번호 1161	Pen-5	11	Pen-5_11	GGACATACAGAAGATAATATCGTCGTATGGTTACCACAATACAACATGTTAGTT GGAGGC
서열번호 1162	Pen-6	1	Pen-6_1	GTTACGACTATCCCGTCACCGAGCAGGTGCTGCTGGCGGGCAACTCCCCGGCGG TGAGCT
서열번호 1163	Pen-6	2	Pen-6_2	TTACGACTATCCCGTCACCGAGCAGGTGCTGCTGGCGGGCAACTCCCCGGCGGT GAGCTT
서열번호 1164	Pen-6	3	Pen-6_3	TACGACTATCCCGTCACCGAGCAGGTGCTGCTGGCGGGCAACTCCCCGGCGGTG AGCTTC
서열번호 1165	Pen-6	4	Pen-6_4	ACGACTATCCCGTCACCGAGCAGGTGCTGCTGGCGGGCAACTCCCCGGCGGTGA GCTTCC

서열번호 1166	Pen-6	5	Pen-6_5	CGACTATCCCGTCACCGAGCAGGTGCTGCTGGCGGGCAACTCCCCGGCGGTGAGCTTCCA
서열번호 1167	Pen-6	6	Pen-6_6	GACTATCCCGTCACCGAGCAGGTGCTGCTGGCGGGCAACTCCCCGGCGGTGAGCTTCCAG
서열번호 1168	Pen-6	7	Pen-6_7	ACTATCCCGTCACCGAGCAGGTGCTGCTGGCGGGCAACTCCCCGGCGGTGAGCTTCCAGG
서열번호 1169	Pen-6	8	Pen-6_8	CTATCCCGTCACCGAGCAGGTGCTGCTGGCGGGCAACTCCCCGGCGGTGAGCTTCCAGGC
서열번호 1170	Pen-6	9	Pen-6_9	TATCCCGTCACCGAGCAGGTGCTGCTGGCGGGCAACTCCCCGGCGGTGAGCTTCCAGGCC
서열번호 1171	Pen-6	10	Pen-6_10	ATCCCGTCACCGAGCAGGTGCTGCTGGCGGGCAACTCCCCGGCGGTGAGCTTCCAGGCCA
서열번호 1172	Pen-6	11	Pen-6_11	TCCCGTCACCGAGCAGGTGCTGCTGGCGGGCAACTCCCCGGCGGTGAGCTTCCAGGCCAA
서열번호 1173	Pen-7	1	Pen-7_1	TGCGCTTCATTCACGCACTATTACTGGCAGGGATCGCTCACTCTGCATATGCGTCGGAAA
서열번호 1174	Pen-7	2	Pen-7_2	GCGCTTCATTCACGCACTATTACTGGCAGGGATCGCTCACTCTGCATATGCGTCGGAAAA
서열번호 1175	Pen-7	3	Pen-7_3	CGCTTCATTCACGCACTATTACTGGCAGGGATCGCTCACTCTGCATATGCGTCGGAAAAA
서열번호 1176	Pen-7	4	Pen-7_4	GCTTCATTCACGCACTATTACTGGCAGGGATCGCTCACTCTGCATATGCGTCGGAAAAAT
서열번호 1177	Pen-7	5	Pen-7_5	CTTCATTCACGCACTATTACTGGCAGGGATCGCTCACTCTGCATATGCGTCGGAAAAATT
서열번호 1178	Pen-7	6	Pen-7_6	TTCATTCACGCACTATTACTGGCAGGGATCGCTCACTCTGCATATGCGTCGGAAAAATTA
서열번호 1179	Pen-7	7	Pen-7_7	TCATTCACGCACTATTACTGGCAGGGATCGCTCACTCTGCATATGCGTCGGAAAAATTAA
서열번호 1180	Pen-7	8	Pen-7_8	CATTCACGCACTATTACTGGCAGGGATCGCTCACTCTGCATATGCGTCGGAAAAATTAAC
서열번호 1181	Pen-7	9	Pen-7_9	ATTCACGCACTATTACTGGCAGGGATCGCTCACTCTGCATATGCGTCGGAAAAATTAACC
서열번호 1182	Pen-7	10	Pen-7_10	TTCACGCACTATTACTGGCAGGGATCGCTCACTCTGCATATGCGTCGGAAAAATTAACCT
서열번호 1183	Pen-7	11	Pen-7_11	TCACGCACTATTACTGGCAGGGATCGCTCACTCTGCATATGCGTCGGAAAAATTAACCTT
서열번호 1184	Pen-8	1	Pen-8_1	CCGCCAAAATATTAATGTCTAAATATGGTAAAGCAAAACTGGTTGTTTCAAGTCATAGTG
서열번호 1185	Pen-8	2	Pen-8_2	CGCCAAAATATTAATGTCTAAATATGGTAAAGCAAAACTGGTTGTTTCAAGTCATAGTGA
서열번호 1186	Pen-8	3	Pen-8_3	GCCAAAATATTAATGTCTAAATATGGTAAAGCAAAACTGGTTGTTTCAAGTCATAGTGAA
서열번호 1187	Pen-8	4	Pen-8_4	CCAAAATATTAATGTCTAAATATGGTAAAGCAAAACTGGTTGTTTCAAGTCATAGTGAAA
서열번호 1188	Pen-8	5	Pen-8_5	CAAAATATTAATGTCTAAATATGGTAAAGCAAAACTGGTTGTTTCAAGTCATAGTGAAAT
서열번호 1189	Pen-8	6	Pen-8_6	AAAATATTAATGTCTAAATATGGTAAAGCAAAACTGGTTGTTTCAAGTCATAGTGAAATT
서열번호 1190	Pen-8	7	Pen-8_7	AAATATTAATGTCTAAATATGGTAAAGCAAAACTGGTTGTTTCAAGTCATAGTGAAATTG
서열번호 1191	Pen-8	8	Pen-8_8	AATATTAATGTCTAAATATGGTAAAGCAAAACTGGTTGTTTCAAGTCATAGTGAAATTGG
서열번호 1192	Pen-8	9	Pen-8_9	ATATTAATGTCTAAATATGGTAAAGCAAAACTGGTTGTTTCAAGTCATAGTGAAATTGGG
서열번호 1193	Pen-8	10	Pen-8_10	TATTAATGTCTAAATATGGTAAAGCAAAACTGGTTGTTTCAAGTCATAGTGAAATTGGGG
서열번호 1194	Pen-8	11	Pen-8_11	ATTAATGTCTAAATATGGTAAAGCAAAACTGGTTGTTTCAAGTCATAGTGAAATTGGGGA
서열번호 1195	Pen-9	1	Pen-9_1	TTTGCCGCATATGTAATTACTGCGTGTCTTTCAAGTACGGCATTAGCTAGTTCAATTACA
서열번호 1196	Pen-9	2	Pen-9_2	TTGCCGCATATGTAATTACTGCGTGTCTTTCAAGTACGGCATTAGCTAGTTCAATTACAG
서열번호 1197	Pen-9	3	Pen-9_3	TGCCGCATATGTAATTACTGCGTGTCTTTCAAGTACGGCATTAGCTAGTTCAATTACAGA

서열번호 1198	Pen-9	4	Pen-9_4	GCCGCATATGTAATTACTGCGTGTCTTTCAAGTACGGCATTAGCTAGTTCAATTACAGAA
서열번호 1199	Pen-9	5	Pen-9_5	CCGCATATGTAATTACTGCGTGTCTTTCAAGTACGGCATTAGCTAGTTCAATTACAGAAA
서열번호 1200	Pen-9	6	Pen-9_6	CGCATATGTAATTACTGCGTGTCTTTCAAGTACGGCATTAGCTAGTTCAATTACAGAAAA
서열번호 1201	Pen-9	7	Pen-9_7	GCATATGTAATTACTGCGTGTCTTTCAAGTACGGCATTAGCTAGTTCAATTACAGAAAAT
서열번호 1202	Pen-9	8	Pen-9_8	CATATGTAATTACTGCGTGTCTTTCAAGTACGGCATTAGCTAGTTCAATTACAGAAAATA
서열번호 1203	Pen-9	9	Pen-9_9	ATATGTAATTACTGCGTGTCTTTCAAGTACGGCATTAGCTAGTTCAATTACAGAAAATAC
서열번호 1204	Pen-9	10	Pen-9_10	TATGTAATTACTGCGTGTCTTTCAAGTACGGCATTAGCTAGTTCAATTACAGAAAATACG
서열번호 1205	Pen-9	11	Pen-9_11	ATGTAATTACTGCGTGTCTTTCAAGTACGGCATTAGCTAGTTCAATTACAGAAAATACGT

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서열번호	TargetID	BPStart	프로브 명칭	염기서열
서열번호 1206	Pen-10	1	Pen-10_1	TCTGAAATGAACCAGAAAAAAAAAAGAGTCTTGGATGGTGAACAATCAAGTCACTGGTAAT
서열번호 1207	Pen-10	2	Pen-10_2	CTGAAATGAACCAGAAAAAAAAAAGAGTCTTGGATGGTGAACAATCAAGTCACTGGTAATT
서열번호 1208	Pen-10	3	Pen-10_3	TGAAATGAACCAGAAAAAAAAAAGAGTCTTGGATGGTGAACAATCAAGTCACTGGTAATTT
서열번호 1209	Pen-10	4	Pen-10_4	GAAATGAACCAGAAAAAAAAAAGAGTCTTGGATGGTGAACAATCAAGTCACTGGTAATTTA
서열번호 1210	Pen-10	5	Pen-10_5	AAATGAACCAGAAAAAAAAAAGAGTCTTGGATGGTGAACAATCAAGTCACTGGTAATTTAC
서열번호 1211	Pen-10	6	Pen-10_6	AATGAACCAGAAAAAAAAAAGAGTCTTGGATGGTGAACAATCAAGTCACTGGTAATTTACT
서열번호 1212	Pen-10	7	Pen-10_7	ATGAACCAGAAAAAAAAAAGAGTCTTGGATGGTGAACAATCAAGTCACTGGTAATTTACTA
서열번호 1213	Pen-10	8	Pen-10_8	TGAACCAGAAAAAAAAAAGAGTCTTGGATGGTGAACAATCAAGTCACTGGTAATTTACTAC
서열번호 1214	Pen-10	9	Pen-10_9	GAACCAGAAAAAAAAAAGAGTCTTGGATGGTGAACAATCAAGTCACTGGTAATTTACTACG
서열번호 1215	Pen-10	10	Pen-10_10	AACCAGAAAAAAAAAAGAGTCTTGGATGGTGAACAATCAAGTCACTGGTAATTTACTACGT
서열번호 1216	Pen-10	11	Pen-10_11	ACCAGAAAAAAAAAAGAGTCTTGGATGGTGAACAATCAAGTCACTGGTAATTTACTACGTT
서열번호 1217	Pen-11	1	Pen-11_1	TATGCGTCCACTTTCAAGGCGTTGTTGGCTGGGGCGGTGTTGCAATCGCTGCCTGAAAAA
서열번호 1218	Pen-11	2	Pen-11_2	ATGCGTCCACTTTCAAGGCGTTGTTGGCTGGGGCGGTGTTGCAATCGCTGCCTGAAAAAG
서열번호 1219	Pen-11	3	Pen-11_3	TGCGTCCACTTTCAAGGCGTTGTTGGCTGGGGCGGTGTTGCAATCGCTGCCTGAAAAAGA
서열번호 1220	Pen-11	4	Pen-11_4	GCGTCCACTTTCAAGGCGTTGTTGGCTGGGGCGGTGTTGCAATCGCTGCCTGAAAAAGAT
서열번호 1221	Pen-11	5	Pen-11_5	CGTCCACTTTCAAGGCGTTGTTGGCTGGGGCGGTGTTGCAATCGCTGCCTGAAAAAGATT
서열번호 1222	Pen-11	6	Pen-11_6	GTCCACTTTCAAGGCGTTGTTGGCTGGGGCGGTGTTGCAATCGCTGCCTGAAAAAGATTT
서열번호 1223	Pen-11	7	Pen-11_7	TCCACTTTCAAGGCGTTGTTGGCTGGGGCGGTGTTGCAATCGCTGCCTGAAAAAGATTTA
서열번호 1224	Pen-11	8	Pen-11_8	CCACTTTCAAGGCGTTGTTGGCTGGGGCGGTGTTGCAATCGCTGCCTGAAAAAGATTTAA
서열번호 1225	Pen-11	9	Pen-11_9	CACTTTCAAGGCGTTGTTGGCTGGGGCGGTGTTGCAATCGCTGCCTGAAAAAGATTTAAA
서열번호 1226	Pen-11	10	Pen-11_10	ACTTTCAAGGCGTTGTTGGCTGGGGCGGTGTTGCAATCGCTGCCTGAAAAAGATTTAAAT

서열번호 1227	Pen-11	11	Pen-11_11	CTTTCAAGGCGTTGTTGGCTGGGGCGGTGTTGCAATCGCTGCCTGAAAAAGATTTAAATC
서열번호 1228	Pen-12	1	Pen-12_1	AGCGCCCGTTCGCAACGGCAGCTGCTGCAGTGGATGGTGGACGATCGGGTCGCCGGACCG
서열번호 1229	Pen-12	2	Pen-12_2	GCGCCCGTTCGCAACGGCAGCTGCTGCAGTGGATGGTGGACGATCGGGTCGCCGGACCGT
서열번호 1230	Pen-12	3	Pen-12_3	CGCCCGTTCGCAACGGCAGCTGCTGCAGTGGATGGTGGACGATCGGGTCGCCGGACCGTT
서열번호 1231	Pen-12	4	Pen-12_4	GCCCGTTCGCAACGGCAGCTGCTGCAGTGGATGGTGGACGATCGGGTCGCCGGACCGTTG
서열번호 1232	Pen-12	5	Pen-12_5	CCCGTTCGCAACGGCAGCTGCTGCAGTGGATGGTGGACGATCGGGTCGCCGGACCGTTGA
서열번호 1233	Pen-12	6	Pen-12_6	CCGTTCGCAACGGCAGCTGCTGCAGTGGATGGTGGACGATCGGGTCGCCGGACCGTTGAT
서열번호 1234	Pen-12	7	Pen-12_7	CGTTCGCAACGGCAGCTGCTGCAGTGGATGGTGGACGATCGGGTCGCCGGACCGTTGATC
서열번호 1235	Pen-12	8	Pen-12_8	GTTCGCAACGGCAGCTGCTGCAGTGGATGGTGGACGATCGGGTCGCCGGACCGTTGATCC
서열번호 1236	Pen-12	9	Pen-12_9	TTCGCAACGGCAGCTGCTGCAGTGGATGGTGGACGATCGGGTCGCCGGACCGTTGATCCG
서열번호 1237	Pen-12	10	Pen-12_10	TCGCAACGGCAGCTGCTGCAGTGGATGGTGGACGATCGGGTCGCCGGACCGTTGATCCGC
서열번호 1238	Pen-12	11	Pen-12_11	CGCAACGGCAGCTGCTGCAGTGGATGGTGGACGATCGGGTCGCCGGACCGTTGATCCGCT
서열번호 1239	Pen-13	1	Pen-13_1	ATGAGTATTCAACATTTCCGTGTCGCCCTTATTCCCTTTTTTGCGGCATTTTGCCTTCCT
서열번호 1240	Pen-13	2	Pen-13_2	TGAGTATTCAACATTTCCGTGTCGCCCTTATTCCCTTTTTTGCGGCATTTTGCCTTCCTG
서열번호 1241	Pen-13	3	Pen-13_3	GAGTATTCAACATTTCCGTGTCGCCCTTATTCCCTTTTTTGCGGCATTTTGCCTTCCTGT
서열번호 1242	Pen-13	4	Pen-13_4	AGTATTCAACATTTCCGTGTCGCCCTTATTCCCTTTTTTGCGGCATTTTGCCTTCCTGTT
서열번호 1243	Pen-13	5	Pen-13_5	GTATTCAACATTTCCGTGTCGCCCTTATTCCCTTTTTTGCGGCATTTTGCCTTCCTGTTT
서열번호 1244	Pen-13	6	Pen-13_6	TATTCAACATTTCCGTGTCGCCCTTATTCCCTTTTTTGCGGCATTTTGCCTTCCTGTTTT
서열번호 1245	Pen-13	7	Pen-13_7	ATTCAACATTTCCGTGTCGCCCTTATTCCCTTTTTTGCGGCATTTTGCCTTCCTGTTTTT
서열번호 1246	Pen-13	8	Pen-13_8	TTCAACATTTCCGTGTCGCCCTTATTCCCTTTTTTGCGGCATTTTGCCTTCCTGTTTTTG
서열번호 1247	Pen-13	9	Pen-13_9	TCAACATTTCCGTGTCGCCCTTATTCCCTTTTTTGCGGCATTTTGCCTTCCTGTTTTTGC
서열번호 1248	Pen-13	10	Pen-13_10	CAACATTTCCGTGTCGCCCTTATTCCCTTTTTTGCGGCATTTTGCCTTCCTGTTTTTGCT
서열번호 1249	Pen-13	11	Pen-13_11	AACATTTCCGTGTCGCCCTTATTCCCTTTTTTGCGGCATTTTGCCTTCCTGTTTTTGCTC
서열번호 1250	Pen-14	1	Pen-14_1	AAAAACACAGCGGCACTTCTCGCGGAGATTGAGAAGCAAATTGGACTTCCTGTAACGCGT
서열번호 1251	Pen-14	2	Pen-14_2	AAAACACAGCGGCACTTCTCGCGGAGATTGAGAAGCAAATTGGACTTCCTGTAACGCGTG
서열번호 1252	Pen-14	3	Pen-14_3	AAACACAGCGGCACTTCTCGCGGAGATTGAGAAGCAAATTGGACTTCCTGTAACGCGTGC
서열번호 1253	Pen-14	4	Pen-14_4	AACACAGCGGCACTTCTCGCGGAGATTGAGAAGCAAATTGGACTTCCTGTAACGCGTGCA
서열번호 1254	Pen-14	5	Pen-14_5	ACACAGCGGCACTTCTCGCGGAGATTGAGAAGCAAATTGGACTTCCTGTAACGCGTGCAG
서열번호 1255	Pen-14	6	Pen-14_6	CACAGCGGCACTTCTCGCGGAGATTGAGAAGCAAATTGGACTTCCTGTAACGCGTGCAGT
서열번호 1256	Pen-14	7	Pen-14_7	ACAGCGGCACTTCTCGCGGAGATTGAGAAGCAAATTGGACTTCCTGTAACGCGTGCAGTC
서열번호 1257	Pen-14	8	Pen-14_8	CAGCGGCACTTCTCGCGGAGATTGAGAAGCAAATTGGACTTCCTGTAACGCGTGCAGTCT
서열번호 1258	Pen-14	9	Pen-14_9	AGCGGCACTTCTCGCGGAGATTGAGAAGCAAATTGGACTTCCTGTAACGCGTGCAGTCTC

서열번호 1259	Pen-14	10	Pen-14_10	GCGGCACTTCTCGCGGAGATTGAGAAGCAAATTGGACTTCCTGTAACGCGTGCAGTCTCC
서열번호 1260	Pen-14	11	Pen-14_11	CGGCACTTCTCGCGGAGATTGAGAAGCAAATTGGACTTCCTGTAACGCGTGCAGTCTCCA
서열번호 1261	Pen-15	1	Pen-15_1	AAAACAGGTTTTAATGATGGGCAAAAAATTGCTTGGATTGTAGGTTTTGTGTATTTAAAA
서열번호 1262	Pen-15	2	Pen-15_2	AAACAGGTTTTAATGATGGGCAAAAAATTGCTTGGATTGTAGGTTTTGTGTATTTAAAAG
서열번호 1263	Pen-15	3	Pen-15_3	AACAGGTTTTAATGATGGGCAAAAAATTGCTTGGATTGTAGGTTTTGTGTATTTAAAAGA
서열번호 1264	Pen-15	4	Pen-15_4	ACAGGTTTTAATGATGGGCAAAAAATTGCTTGGATTGTAGGTTTTGTGTATTTAAAAGAT
서열번호 1265	Pen-15	5	Pen-15_5	CAGGTTTTAATGATGGGCAAAAAATTGCTTGGATTGTAGGTTTTGTGTATTTAAAAGATG
서열번호 1266	Pen-15	6	Pen-15_6	AGGTTTTAATGATGGGCAAAAAATTGCTTGGATTGTAGGTTTTGTGTATTTAAAAGATGA
서열번호 1267	Pen-15	7	Pen-15_7	GGTTTTAATGATGGGCAAAAAATTGCTTGGATTGTAGGTTTTGTGTATTTAAAAGATGAA
서열번호 1268	Pen-15	8	Pen-15_8	GTTTTAATGATGGGCAAAAAATTGCTTGGATTGTAGGTTTTGTGTATTTAAAAGATGAAA
서열번호 1269	Pen-15	9	Pen-15_9	TTTTAATGATGGGCAAAAAATTGCTTGGATTGTAGGTTTTGTGTATTTAAAAGATGAAAA
서열번호 1270	Pen-15	10	Pen-15_10	TTTAATGATGGGCAAAAAATTGCTTGGATTGTAGGTTTTGTGTATTTAAAAGATGAAAAT
서열번호 1271	Pen-15	11	Pen-15_11	TTAATGATGGGCAAAAAATTGCTTGGATTGTAGGTTTTGTGTATTTAAAAGATGAAAATA
서열번호 1272	Pen-16	1	Pen-16_1	TCAGCCATAGAAAACACCATAGAGAACATGTATCTACAAGATCTGGATAATAGTACAAAA
서열번호 1273	Pen-16	2	Pen-16_2	CAGCCATAGAAAACACCATAGAGAACATGTATCTACAAGATCTGGATAATAGTACAAAAC
서열번호 1274	Pen-16	3	Pen-16_3	AGCCATAGAAAACACCATAGAGAACATGTATCTACAAGATCTGGATAATAGTACAAAACT
서열번호 1275	Pen-16	4	Pen-16_4	GCCATAGAAAACACCATAGAGAACATGTATCTACAAGATCTGGATAATAGTACAAAACTG
서열번호 1276	Pen-16	5	Pen-16_5	CCATAGAAAACACCATAGAGAACATGTATCTACAAGATCTGGATAATAGTACAAAACTGT
서열번호 1277	Pen-16	6	Pen-16_6	CATAGAAAACACCATAGAGAACATGTATCTACAAGATCTGGATAATAGTACAAAACTGTA
서열번호 1278	Pen-16	7	Pen-16_7	ATAGAAAACACCATAGAGAACATGTATCTACAAGATCTGGATAATAGTACAAAACTGTAT
서열번호 1279	Pen-16	8	Pen-16_8	TAGAAAACACCATAGAGAACATGTATCTACAAGATCTGGATAATAGTACAAAACTGTATG
서열번호 1280	Pen-16	9	Pen-16_9	AGAAAACACCATAGAGAACATGTATCTACAAGATCTGGATAATAGTACAAAACTGTATGG
서열번호 1281	Pen-16	10	Pen-16_10	GAAAACACCATAGAGAACATGTATCTACAAGATCTGGATAATAGTACAAAACTGTATGGG
서열번호 1282	Pen-16	11	Pen-16_11	AAAACACCATAGAGAACATGTATCTACAAGATCTGGATAATAGTACAAAACTGTATGGGA
서열번호 1283	Qui-1	1	Qui-1_1	ATCCTGGACATCTACGGCTTCTTCGTCGCCGGCTTCCTGATCACCATGGGCACGCTGGGC
서열번호 1284	Qui-1	2	Qui-1_2	TCCTGGACATCTACGGCTTCTTCGTCGCCGGCTTCCTGATCACCATGGGCACGCTGGGCG
서열번호 1285	Qui-1	3	Qui-1_3	CCTGGACATCTACGGCTTCTTCGTCGCCGGCTTCCTGATCACCATGGGCACGCTGGGCGA
서열번호 1286	Qui-1	4	Qui-1_4	CTGGACATCTACGGCTTCTTCGTCGCCGGCTTCCTGATCACCATGGGCACGCTGGGCGAC
서열번호 1287	Qui-1	5	Qui-1_5	TGGACATCTACGGCTTCTTCGTCGCCGGCTTCCTGATCACCATGGGCACGCTGGGCGACC
서열번호 1288	Qui-1	6	Qui-1_6	GGACATCTACGGCTTCTTCGTCGCCGGCTTCCTGATCACCATGGGCACGCTGGGCGACCG
서열번호 1289	Qui-1	7	Qui-1_7	GACATCTACGGCTTCTTCGTCGCCGGCTTCCTGATCACCATGGGCACGCTGGGCGACCGC
서열번호 1290	Qui-1	8	Qui-1_8	ACATCTACGGCTTCTTCGTCGCCGGCTTCCTGATCACCATGGGCACGCTGGGCGACCGCA

서열번호 1291	Qui-1	9	Qui-1_9	CATCTACGGCTTCTTCGTCGCCGGCTTCCTGATCACCATGGGCACGCTGGGCGACCGCAT
서열번호 1292	Qui-1	10	Qui-1_10	ATCTACGGCTTCTTCGTCGCCGGCTTCCTGATCACCATGGGCACGCTGGGCGACCGCATC
서열번호 1293	Qui-1	11	Qui-1_11	TCTACGGCTTCTTCGTCGCCGGCTTCCTGATCACCATGGGCACGCTGGGCGACCGCATCG
서열번호 1294	Qui-2	1	Qui-2_1	CAAGAGGATTTCTCACGCCAGGATTTGAGTGACAGCCGTTTTCGCCGCTGCCGCTTTTAT
서열번호 1295	Qui-2	2	Qui-2_2	AAGAGGATTTCTCACGCCAGGATTTGAGTGACAGCCGTTTTCGCCGCTGCCGCTTTTATC
서열번호 1296	Qui-2	3	Qui-2_3	AGAGGATTTCTCACGCCAGGATTTGAGTGACAGCCGTTTTCGCCGCTGCCGCTTTTATCA
서열번호 1297	Qui-2	4	Qui-2_4	GAGGATTTCTCACGCCAGGATTTGAGTGACAGCCGTTTTCGCCGCTGCCGCTTTTATCAG
서열번호 1298	Qui-2	5	Qui-2_5	AGGATTTCTCACGCCAGGATTTGAGTGACAGCCGTTTTCGCCGCTGCCGCTTTTATCAGT
서열번호 1299	Qui-2	6	Qui-2_6	GGATTTCTCACGCCAGGATTTGAGTGACAGCCGTTTTCGCCGCTGCCGCTTTTATCAGTG
서열번호 1300	Qui-2	7	Qui-2_7	GATTTCTCACGCCAGGATTTGAGTGACAGCCGTTTTCGCCGCTGCCGCTTTTATCAGTGT
서열번호 1301	Qui-2	8	Qui-2_8	ATTTCTCACGCCAGGATTTGAGTGACAGCCGTTTTCGCCGCTGCCGCTTTTATCAGTGTG
서열번호 1302	Qui-2	9	Qui-2_9	TTTCTCACGCCAGGATTTGAGTGACAGCCGTTTTCGCCGCTGCCGCTTTTATCAGTGTGA
서열번호 1303	Qui-2	10	Qui-2_10	TTCTCACGCCAGGATTTGAGTGACAGCCGTTTTCGCCGCTGCCGCTTTTATCAGTGTGAC
서열번호 1304	Qui-2	11	Qui-2_11	TCTCACGCCAGGATTTGAGTGACAGCCGTTTTCGCCGCTGCCGCTTTTATCAGTGTGACT
서열번호 1305	Qui-3	1	Qui-3_1	ATGACTCTGGCATTAGTTGGCGAAAAAATTGACAGAAATCGCTTCACCGGTGAGAAAGTT
서열번호 1306	Qui-3	2	Qui-3_2	TGACTCTGGCATTAGTTGGCGAAAAAATTGACAGAAATCGCTTCACCGGTGAGAAAGTTG
서열번호 1307	Qui-3	3	Qui-3_3	GACTCTGGCATTAGTTGGCGAAAAAATTGACAGAAATCGCTTCACCGGTGAGAAAGTTGA
서열번호 1308	Qui-3	4	Qui-3_4	ACTCTGGCATTAGTTGGCGAAAAAATTGACAGAAATCGCTTCACCGGTGAGAAAGTTGAA
서열번호 1309	Qui-3	5	Qui-3_5	CTCTGGCATTAGTTGGCGAAAAAATTGACAGAAATCGCTTCACCGGTGAGAAAGTTGAAA
서열번호 1310	Qui-3	6	Qui-3_6	TCTGGCATTAGTTGGCGAAAAAATTGACAGAAATCGCTTCACCGGTGAGAAAGTTGAAAA
서열번호 1311	Qui-3	7	Qui-3_7	CTGGCATTAGTTGGCGAAAAAATTGACAGAAATCGCTTCACCGGTGAGAAAGTTGAAAAT
서열번호 1312	Qui-3	8	Qui-3_8	TGGCATTAGTTGGCGAAAAAATTGACAGAAATCGCTTCACCGGTGAGAAAGTTGAAAATA
서열번호 1313	Qui-3	9	Qui-3_9	GGCATTAGTTGGCGAAAAAATTGACAGAAATCGCTTCACCGGTGAGAAAGTTGAAAATAG
서열번호 1314	Qui-3	10	Qui-3_10	GCATTAGTTGGCGAAAAAATTGACAGAAATCGCTTCACCGGTGAGAAAGTTGAAAATAGT
서열번호 1315	Qui-3	11	Qui-3_11	CATTAGTTGGCGAAAAAATTGACAGAAATCGCTTCACCGGTGAGAAAGTTGAAAATAGTA
서열번호 1316	Qui-4	1	Qui-4_1	ATGGCTCTGGCACTCGTTGGCGAAAAAATTGACAGAAACCGTTTCACCGGTGAGAAAATT
서열번호 1317	Qui-4	2	Qui-4_2	TGGCTCTGGCACTCGTTGGCGAAAAAATTGACAGAAACCGTTTCACCGGTGAGAAAATTG
서열번호 1318	Qui-4	3	Qui-4_3	GGCTCTGGCACTCGTTGGCGAAAAAATTGACAGAAACCGTTTCACCGGTGAGAAAATTGA
서열번호 1319	Qui-4	4	Qui-4_4	GCTCTGGCACTCGTTGGCGAAAAAATTGACAGAAACCGTTTCACCGGTGAGAAAATTGAA
서열번호 1320	Qui-4	5	Qui-4_5	CTCTGGCACTCGTTGGCGAAAAAATTGACAGAAACCGTTTCACCGGTGAGAAAATTGAAA
서열번호 1321	Qui-4	6	Qui-4_6	TCTGGCACTCGTTGGCGAAAAAATTGACAGAAACCGTTTCACCGGTGAGAAAATTGAAAA
서열번호 1322	Qui-4	7	Qui-4_7	CTGGCACTCGTTGGCGAAAAAATTGACAGAAACCGTTTCACCGGTGAGAAAATTGAAAAT

서열번호 1323	Qui-4	8	Qui-4_8	TGGCACTCGTTGGCGAAAAAATTGACAGAAACCGTTTCACCGGTGAGAAAATTG AAAATA
서열번호 1324	Qui-4	9	Qui-4_9	GGCACTCGTTGGCGAAAAAATTGACAGAAACCGTTTCACCGGTGAGAAAATTGA AAATAG
서열번호 1325	Qui-4	10	Qui-4_10	GCACTCGTTGGCGAAAAAATTGACAGAAACCGTTTCACCGGTGAGAAAATTGAA AATAGT
서열번호 1326	Qui-4	11	Qui-4_11	CACTCGTTGGCGAAAAAATTGACAGAAACCGTTTCACCGGTGAGAAAATTGAAA ATAGTA
서열번호 1327	Qui-5	1	Qui-5_1	ATGGCTCTGGCACTCGTTGGCGAAAAAATTAACAGAAACCGCTTCACCGGTGAG AAAATT
서열번호 1328	Qui-5	2	Qui-5_2	TGGCTCTGGCACTCGTTGGCGAAAAAATTAACAGAAACCGCTTCACCGGTGAGA AAATTG
서열번호 1329	Qui-5	3	Qui-5_3	GGCTCTGGCACTCGTTGGCGAAAAAATTAACAGAAACCGCTTCACCGGTGAGAA AATTGA
서열번호 1330	Qui-5	4	Qui-5_4	GCTCTGGCACTCGTTGGCGAAAAAATTAACAGAAACCGCTTCACCGGTGAGAAA ATTGAA
서열번호 1331	Qui-5	5	Qui-5_5	CTCTGGCACTCGTTGGCGAAAAAATTAACAGAAACCGCTTCACCGGTGAGAAAA TTGAAA
서열번호 1332	Qui-5	6	Qui-5_6	TCTGGCACTCGTTGGCGAAAAAATTAACAGAAACCGCTTCACCGGTGAGAAAAT TGAAAA
서열번호 1333	Qui-5	7	Qui-5_7	CTGGCACTCGTTGGCGAAAAAATTAACAGAAACCGCTTCACCGGTGAGAAAATT GAAAAT
서열번호 1334	Qui-5	8	Qui-5_8	TGGCACTCGTTGGCGAAAAAATTAACAGAAACCGCTTCACCGGTGAGAAAATTG AAAATA
서열번호 1335	Qui-5	9	Qui-5_9	GGCACTCGTTGGCGAAAAAATTAACAGAAACCGCTTCACCGGTGAGAAAATTGA AAATAG
서열번호 1336	Qui-5	10	Qui-5_10	GCACTCGTTGGCGAAAAAATTAACAGAAACCGCTTCACCGGTGAGAAAATTGAA AATAGT
서열번호 1337	Qui-5	11	Qui-5_11	CACTCGTTGGCGAAAAAATTAACAGAAACCGCTTCACCGGTGAGAAAATTGAAA ATAGTA
서열번호 1338	Qui-6	1	Qui-6_1	GTGTGATTTAAAAGGTGCCAACTTTTCCCGAACAAACTTTGCCCATCAAGTGAG TAATCG
서열번호 1339	Qui-6	2	Qui-6_2	TGTGATTTAAAAGGTGCCAACTTTTCCCGAACAAACTTTGCCCATCAAGTGAGT AATCGT
서열번호 1340	Qui-6	3	Qui-6_3	GTGATTTAAAAGGTGCCAACTTTTCCCGAACAAACTTTGCCCATCAAGTGAGTA ATCGTA
서열번호 1341	Qui-6	4	Qui-6_4	TGATTTAAAAGGTGCCAACTTTTCCCGAACAAACTTTGCCCATCAAGTGAGTAA TCGTAT
서열번호 1342	Qui-6	5	Qui-6_5	GATTTAAAAGGTGCCAACTTTTCCCGAACAAACTTTGCCCATCAAGTGAGTAAT CGTATG
서열번호 1343	Qui-6	6	Qui-6_6	ATTTAAAAGGTGCCAACTTTTCCCGAACAAACTTTGCCCATCAAGTGAGTAATC GTATGT
서열번호 1344	Qui-6	7	Qui-6_7	TTTAAAAGGTGCCAACTTTTCCCGAACAAACTTTGCCCATCAAGTGAGTAATCG TATGTA
서열번호 1345	Qui-6	8	Qui-6_8	TTAAAAGGTGCCAACTTTTCCCGAACAAACTTTGCCCATCAAGTGAGTAATCGT ATGTAC
서열번호 1346	Qui-6	9	Qui-6_9	TAAAAGGTGCCAACTTTTCCCGAACAAACTTTGCCCATCAAGTGAGTAATCGTA TGTACT
서열번호 1347	Qui-6	10	Qui-6_10	AAAAGGTGCCAACTTTTCCCGAACAAACTTTGCCCATCAAGTGAGTAATCGTAT GTACTT
서열번호 1348	Qui-6	11	Qui-6_11	AAAGGTGCCAACTTTTCCCGAACAAACTTTGCCCATCAAGTGAGTAATCGTATG TACTTT
서열번호 1349	Qui-7	1	Qui-7_1	TAAAAGGGGCCAACTTTTCCCGAGCAAACTTTGCCAATCAAGTGAGTAATCGTA TGTACT
서열번호 1350	Qui-7	2	Qui-7_2	AAAAGGGGCCAACTTTTCCCGAGCAAACTTTGCCAATCAAGTGAGTAATCGTAT GTACTT
서열번호 1351	Qui-7	3	Qui-7_3	AAAGGGGCCAACTTTTCCCGAGCAAACTTTGCCAATCAAGTGAGTAATCGTATG TACTTT
서열번호 1352	Qui-7	4	Qui-7_4	AAGGGGCCAACTTTTCCCGAGCAAACTTTGCCAATCAAGTGAGTAATCGTATGT ACTTTT
서열번호 1353	Qui-7	5	Qui-7_5	AGGGGCCAACTTTTCCCGAGCAAACTTTGCCAATCAAGTGAGTAATCGTATGTA CTTTTG
서열번호 1354	Qui-7	6	Qui-7_6	GGGGCCAACTTTTCCCGAGCAAACTTTGCCAATCAAGTGAGTAATCGTATGTAC TTTTGC

서열번호 1355	Qui-7	7	Qui-7_7	GGGCCAACTTTTCCCGAGCAAACTTTGCCAATCAAGTGAGTAATCGTATGTACTTTTGCT
서열번호 1356	Qui-7	8	Qui-7_8	GGCCAACTTTTCCCGAGCAAACTTTGCCAATCAAGTGAGTAATCGTATGTACTTTTGCTC
서열번호 1357	Qui-7	9	Qui-7_9	GCCAACTTTTCCCGAGCAAACTTTGCCAATCAAGTGAGTAATCGTATGTACTTTTGCTCA
서열번호 1358	Qui-7	10	Qui-7_10	CCAACTTTTCCCGAGCAAACTTTGCCAATCAAGTGAGTAATCGTATGTACTTTTGCTCAG
서열번호 1359	Qui-7	11	Qui-7_11	CAACTTTTCCCGAGCAAACTTTGCCAATCAAGTGAGTAATCGTATGTACTTTTGCTCAGC
서열번호 1360	Str-1	1	Str-1_1	CCAACAGAACGAGAATTTTATGATTGCTGCAATGAGTTTTGGAGTGTCTCAACGTATGTA
서열번호 1361	Str-1	2	Str-1_2	CAACAGAACGAGAATTTTATGATTGCTGCAATGAGTTTTGGAGTGTCTCAACGTATGTAG
서열번호 1362	Str-1	3	Str-1_3	AACAGAACGAGAATTTTATGATTGCTGCAATGAGTTTTGGAGTGTCTCAACGTATGTAGC
서열번호 1363	Str-1	4	Str-1_4	ACAGAACGAGAATTTTATGATTGCTGCAATGAGTTTTGGAGTGTCTCAACGTATGTAGCA
서열번호 1364	Str-1	5	Str-1_5	CAGAACGAGAATTTTATGATTGCTGCAATGAGTTTTGGAGTGTCTCAACGTATGTAGCAA
서열번호 1365	Str-1	6	Str-1_6	AGAACGAGAATTTTATGATTGCTGCAATGAGTTTTGGAGTGTCTCAACGTATGTAGCAAA
서열번호 1366	Str-1	7	Str-1_7	GAACGAGAATTTTATGATTGCTGCAATGAGTTTTGGAGTGTCTCAACGTATGTAGCAAAG
서열번호 1367	Str-1	8	Str-1_8	AACGAGAATTTTATGATTGCTGCAATGAGTTTTGGAGTGTCTCAACGTATGTAGCAAAGG
서열번호 1368	Str-1	9	Str-1_9	ACGAGAATTTTATGATTGCTGCAATGAGTTTTGGAGTGTCTCAACGTATGTAGCAAAGGG
서열번호 1369	Str-1	10	Str-1_10	CGAGAATTTTATGATTGCTGCAATGAGTTTTGGAGTGTCTCAACGTATGTAGCAAAGGGT
서열번호 1370	Str-1	11	Str-1_11	GAGAATTTTATGATTGCTGCAATGAGTTTTGGAGTGTCTCAACGTATGTAGCAAAGGGTG
서열번호 1371	Str-2	1	Str-2_1	AACGCGGCGAGCTTTGATCAACGACCTTTTGGAAACTTCGGCTTCCCCTGGAGAGAGCGA
서열번호 1372	Str-2	2	Str-2_2	ACGCGGCGAGCTTTGATCAACGACCTTTTGGAAACTTCGGCTTCCCCTGGAGAGAGCGAG
서열번호 1373	Str-2	3	Str-2_3	CGCGGCGAGCTTTGATCAACGACCTTTTGGAAACTTCGGCTTCCCCTGGAGAGAGCGAGA
서열번호 1374	Str-2	4	Str-2_4	GCGGCGAGCTTTGATCAACGACCTTTTGGAAACTTCGGCTTCCCCTGGAGAGAGCGAGAT
서열번호 1375	Str-2	5	Str-2_5	CGGCGAGCTTTGATCAACGACCTTTTGGAAACTTCGGCTTCCCCTGGAGAGAGCGAGATT
서열번호 1376	Str-2	6	Str-2_6	GGCGAGCTTTGATCAACGACCTTTTGGAAACTTCGGCTTCCCCTGGAGAGAGCGAGATTC
서열번호 1377	Str-2	7	Str-2_7	GCGAGCTTTGATCAACGACCTTTTGGAAACTTCGGCTTCCCCTGGAGAGAGCGAGATTCT
서열번호 1378	Str-2	8	Str-2_8	CGAGCTTTGATCAACGACCTTTTGGAAACTTCGGCTTCCCCTGGAGAGAGCGAGATTCTC
서열번호 1379	Str-2	9	Str-2_9	GAGCTTTGATCAACGACCTTTTGGAAACTTCGGCTTCCCCTGGAGAGAGCGAGATTCTCC
서열번호 1380	Str-2	10	Str-2_10	AGCTTTGATCAACGACCTTTTGGAAACTTCGGCTTCCCCTGGAGAGAGCGAGATTCTCCG
서열번호 1381	Str-2	11	Str-2_11	GCTTTGATCAACGACCTTTTGGAAACTTCGGCTTCCCCTGGAGAGAGCGAGATTCTCCGC
서열번호 1382	Str-3	1	Str-3_1	CCGCCGAAATTTCAACACAACTATCAGAGGTGTTTAGCGTCATCGAGCGCCATCTGGAGC
서열번호 1383	Str-3	2	Str-3_2	CGCCGAAATTTCAACACAACTATCAGAGGTGTTTAGCGTCATCGAGCGCCATCTGGAGCC
서열번호 1384	Str-3	3	Str-3_3	GCCGAAATTTCAACACAACTATCAGAGGTGTTTAGCGTCATCGAGCGCCATCTGGAGCCG
서열번호 1385	Str-3	4	Str-3_4	CCGAAATTTCAACACAACTATCAGAGGTGTTTAGCGTCATCGAGCGCCATCTGGAGCCGA
서열번호 1386	Str-3	5	Str-3_5	CGAAATTTCAACACAACTATCAGAGGTGTTTAGCGTCATCGAGCGCCATCTGGAGCCGAC

서열번호 1387	Str-3	6	Str-3_6	GAAATTTCAACACAACTATCAGAGGTGTTTAGCGTCATCGAGCGCCATCTGGAG CCGACG
서열번호 1388	Str-3	7	Str-3_7	AAATTTCAACACAACTATCAGAGGTGTTTAGCGTCATCGAGCGCCATCTGGAGC CGACGT
서열번호 1389	Str-3	8	Str-3_8	AATTTCAACACAACTATCAGAGGTGTTTAGCGTCATCGAGCGCCATCTGGAGCC GACGTT
서열번호 1390	Str-3	9	Str-3_9	ATTTCAACACAACTATCAGAGGTGTTTAGCGTCATCGAGCGCCATCTGGAGCCG ACGTTG
서열번호 1391	Str-3	10	Str-3_10	TTTCAACACAACTATCAGAGGTGTTTAGCGTCATCGAGCGCCATCTGGAGCCGA CGTTGC
서열번호 1392	Str-3	11	Str-3_11	TTCAACACAACTATCAGAGGTGTTTAGCGTCATCGAGCGCCATCTGGAGCCGAC GTTGCT
서열번호 1393	Str-4	1	Str-4_1	GACGCGGCGAGCATTGCTCAATGACCTTATGGAGGCTTCGGCTTTCCCTGGCGA GAGCGA
서열번호 1394	Str-4	2	Str-4_2	ACGCGGCGAGCATTGCTCAATGACCTTATGGAGGCTTCGGCTTTCCCTGGCGAG AGCGAG
서열번호 1395	Str-4	3	Str-4_3	CGCGGCGAGCATTGCTCAATGACCTTATGGAGGCTTCGGCTTTCCCTGGCGAGA GCGAGA
서열번호 1396	Str-4	4	Str-4_4	GCGGCGAGCATTGCTCAATGACCTTATGGAGGCTTCGGCTTTCCCTGGCGAGAG CGAGAC
서열번호 1397	Str-4	5	Str-4_5	CGGCGAGCATTGCTCAATGACCTTATGGAGGCTTCGGCTTTCCCTGGCGAGAGC GAGACG
서열번호 1398	Str-4	6	Str-4_6	GGCGAGCATTGCTCAATGACCTTATGGAGGCTTCGGCTTTCCCTGGCGAGAGCG AGACGC
서열번호 1399	Str-4	7	Str-4_7	GCGAGCATTGCTCAATGACCTTATGGAGGCTTCGGCTTTCCCTGGCGAGAGCGA GACGCT
서열번호 1400	Str-4	8	Str-4_8	CGAGCATTGCTCAATGACCTTATGGAGGCTTCGGCTTTCCCTGGCGAGAGCGAG ACGCTC
서열번호 1401	Str-4	9	Str-4_9	GAGCATTGCTCAATGACCTTATGGAGGCTTCGGCTTTCCCTGGCGAGAGCGAGA CGCTCC
서열번호 1402	Str-4	10	Str-4_10	AGCATTGCTCAATGACCTTATGGAGGCTTCGGCTTTCCCTGGCGAGAGCGAGAC GCTCCG
서열번호 1403	Str-4	11	Str-4_11	GCATTGCTCAATGACCTTATGGAGGCTTCGGCTTTCCCTGGCGAGAGCGAGACG CTCCGC
서열번호 1404	Str-5	1	Str-5_1	TCAGTTCGGTGAGTGGCTCCGCCACGACATCCTTTCCGGAACGTTCGAGCCTGC CGTTCT
서열번호 1405	Str-5	2	Str-5_2	CAGTTCGGTGAGTGGCTCCGCCACGACATCCTTTCCGGAACGTTCGAGCCTGCC GTTCTG
서열번호 1406	Str-5	3	Str-5_3	AGTTCGGTGAGTGGCTCCGCCACGACATCCTTTCCGGAACGTTCGAGCCTGCCG TTCTGG
서열번호 1407	Str-5	4	Str-5_4	GTTCGGTGAGTGGCTCCGCCACGACATCCTTTCCGGAACGTTCGAGCCTGCCGT TCTGGA
서열번호 1408	Str-5	5	Str-5_5	TTCGGTGAGTGGCTCCGCCACGACATCCTTTCCGGAACGTTCGAGCCTGCCGTT CTGGAT
서열번호 1409	Str-5	6	Str-5_6	TCGGTGAGTGGCTCCGCCACGACATCCTTTCCGGAACGTTCGAGCCTGCCGTTC TGGATC
서열번호 1410	Str-5	7	Str-5_7	CGGTGAGTGGCTCCGCCACGACATCCTTTCCGGAACGTTCGAGCCTGCCGTTCT GGATCA
서열번호 1411	Str-5	8	Str-5_8	GGTGAGTGGCTCCGCCACGACATCCTTTCCGGAACGTTCGAGCCTGCCGTTCTG GATCAC
서열번호 1412	Str-5	9	Str-5_9	GTGAGTGGCTCCGCCACGACATCCTTTCCGGAACGTTCGAGCCTGCCGTTCTGG ATCACG
서열번호 1413	Str-5	10	Str-5_10	TGAGTGGCTCCGCCACGACATCCTTTCCGGAACGTTCGAGCCTGCCGTTCTGGA TCACGA
서열번호 1414	Str-5	11	Str-5_11	GAGTGGCTCCGCCACGACATCCTTTCCGGAACGTTCGAGCCTGCCGTTCTGGAT CACGAT

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서열번호	TargetID	BPStart	프로브 명칭	염기서열
서열번호 1415	Str-6	1	Str-6_1	GGCGTGTAACACGCAAGCACGATGATATTGATCTGACGTTTCCCGGCGAGAGGC GCGGCG

서열번호 1416	Str-6	2	Str-6_2	GCGTGTAACACGCAAGCACGATGATATTGATCTGACGTTTCCCGGCGAGAGGCG CGGCGA
서열번호 1417	Str-6	3	Str-6_3	CGTGTAACACGCAAGCACGATGATATTGATCTGACGTTTCCCGGCGAGAGGCGC GGCGAG
서열번호 1418	Str-6	4	Str-6_4	GTGTAACACGCAAGCACGATGATATTGATCTGACGTTTCCCGGCGAGAGGCGCG GCGAGC
서열번호 1419	Str-6	5	Str-6_5	TGTAACACGCAAGCACGATGATATTGATCTGACGTTTCCCGGCGAGAGGCGCGG CGAGCT
서열번호 1420	Str-6	6	Str-6_6	GTAACACGCAAGCACGATGATATTGATCTGACGTTTCCCGGCGAGAGGCGCGGC GAGCTC
서열번호 1421	Str-6	7	Str-6_7	TAACACGCAAGCACGATGATATTGATCTGACGTTTCCCGGCGAGAGGCGCGGCG AGCTCG
서열번호 1422	Str-6	8	Str-6_8	AACACGCAAGCACGATGATATTGATCTGACGTTTCCCGGCGAGAGGCGCGGCGA GCTCGA
서열번호 1423	Str-6	9	Str-6_9	ACACGCAAGCACGATGATATTGATCTGACGTTTCCCGGCGAGAGGCGCGGCGAG CTCGAG
서열번호 1424	Str-6	10	Str-6_10	CACGCAAGCACGATGATATTGATCTGACGTTTCCCGGCGAGAGGCGCGGCGAGC TCGAGG
서열번호 1425	Str-6	11	Str-6_11	ACGCAAGCACGATGATATTGATCTGACGTTTCCCGGCGAGAGGCGCGGCGAGCT CGAGGC
서열번호 1426	Str-7	1	Str-7_1	GTGTGCAAGGACCGACAACATTTCTACCATCCTTGACTGTACAGGTAGCAATGG CAGGTG
서열번호 1427	Str-7	2	Str-7_2	TGTGCAAGGACCGACAACATTTCTACCATCCTTGACTGTACAGGTAGCAATGGC AGGTGC
서열번호 1428	Str-7	3	Str-7_3	GTGCAAGGACCGACAACATTTCTACCATCCTTGACTGTACAGGTAGCAATGGCA GGTGCC
서열번호 1429	Str-7	4	Str-7_4	TGCAAGGACCGACAACATTTCTACCATCCTTGACTGTACAGGTAGCAATGGCAG GTGCCA
서열번호 1430	Str-7	5	Str-7_5	GCAAGGACCGACAACATTTCTACCATCCTTGACTGTACAGGTAGCAATGGCAGG TGCCAT
서열번호 1431	Str-7	6	Str-7_6	CAAGGACCGACAACATTTCTACCATCCTTGACTGTACAGGTAGCAATGGCAGGT GCCATG
서열번호 1432	Str-7	7	Str-7_7	AAGGACCGACAACATTTCTACCATCCTTGACTGTACAGGTAGCAATGGCAGGTG CCATGT
서열번호 1433	Str-7	8	Str-7_8	AGGACCGACAACATTTCTACCATCCTTGACTGTACAGGTAGCAATGGCAGGTGC CATGTT
서열번호 1434	Str-7	9	Str-7_9	GGACCGACAACATTTCTACCATCCTTGACTGTACAGGTAGCAATGGCAGGTGCC ATGTTG
서열번호 1435	Str-7	10	Str-7_10	GACCGACAACATTTCTACCATCCTTGACTGTACAGGTAGCAATGGCAGGTGCCA TGTTGA
서열번호 1436	Str-7	11	Str-7_11	ACCGACAACATTTCTACCATCCTTGACTGTACAGGTAGCAATGGCAGGTGCCAT GTTGAT
서열번호 1437	Str-8	1	Str-8_1	CTTACCTTATTGCCCTTGGAAGAGTTAGATAATTACCTAAAGGGCGATAAATTA ATAAAG
서열번호 1438	Str-8	2	Str-8_2	TTACCTTATTGCCCTTGGAAGAGTTAGATAATTACCTAAAGGGCGATAAATTAA TAAAGG
서열번호 1439	Str-8	3	Str-8_3	TACCTTATTGCCCTTGGAAGAGTTAGATAATTACCTAAAGGGCGATAAATTAAT AAAGGT
서열번호 1440	Str-8	4	Str-8_4	ACCTTATTGCCCTTGGAAGAGTTAGATAATTACCTAAAGGGCGATAAATTAATA AAGGTT
서열번호 1441	Str-8	5	Str-8_5	CCTTATTGCCCTTGGAAGAGTTAGATAATTACCTAAAGGGCGATAAATTAATAA AGGTTC
서열번호 1442	Str-8	6	Str-8_6	CTTATTGCCCTTGGAAGAGTTAGATAATTACCTAAAGGGCGATAAATTAATAAA GGTTCT
서열번호 1443	Str-8	7	Str-8_7	TTATTGCCCTTGGAAGAGTTAGATAATTACCTAAAGGGCGATAAATTAATAAAG GTTCTA
서열번호 1444	Str-8	8	Str-8_8	TATTGCCCTTGGAAGAGTTAGATAATTACCTAAAGGGCGATAAATTAATAAAGG TTCTAA
서열번호 1445	Str-8	9	Str-8_9	ATTGCCCTTGGAAGAGTTAGATAATTACCTAAAGGGCGATAAATTAATAAAGGT TCTAAT
서열번호 1446	Str-8	10	Str-8_10	TATTGCCCTTGGAAGAGTTAGATAATTACCTAAAGGGCGATAAATTAATAAAGG TTCTAA
서열번호 1447	Str-8	11	Str-8_11	ATTGCCCTTGGAAGAGTTAGATAATTACCTAAAGGGCGATAAATTAATAAAGGT TCTAAT

서열번호 1448	Str-9	1	Str-9_1	CTCCTTGTTACTGTGGCCGTGAAGCTCGATGAGACGACGCGCCGAGCATTACTCAACGAC
서열번호 1449	Str-9	2	Str-9_2	TCCTTGTTACTGTGGCCGTGAAGCTCGATGAGACGACGCGCCGAGCATTACTCAACGACT
서열번호 1450	Str-9	3	Str-9_3	CCTTGTTACTGTGGCCGTGAAGCTCGATGAGACGACGCGCCGAGCATTACTCAACGACTT
서열번호 1451	Str-9	4	Str-9_4	CTTGTTACTGTGGCCGTGAAGCTCGATGAGACGACGCGCCGAGCATTACTCAACGACTTG
서열번호 1452	Str-9	5	Str-9_5	TTGTTACTGTGGCCGTGAAGCTCGATGAGACGACGCGCCGAGCATTACTCAACGACTTGA
서열번호 1453	Str-9	6	Str-9_6	TGTTACTGTGGCCGTGAAGCTCGATGAGACGACGCGCCGAGCATTACTCAACGACTTGAT
서열번호 1454	Str-9	7	Str-9_7	GTTACTGTGGCCGTGAAGCTCGATGAGACGACGCGCCGAGCATTACTCAACGACTTGATG
서열번호 1455	Str-9	8	Str-9_8	TTACTGTGGCCGTGAAGCTCGATGAGACGACGCGCCGAGCATTACTCAACGACTTGATGG
서열번호 1456	Str-9	9	Str-9_9	TACTGTGGCCGTGAAGCTCGATGAGACGACGCGCCGAGCATTACTCAACGACTTGATGGA
서열번호 1457	Str-9	10	Str-9_10	ACTGTGGCCGTGAAGCTCGATGAGACGACGCGCCGAGCATTACTCAACGACTTGATGGAG
서열번호 1458	Str-9	11	Str-9_11	CTGTGGCCGTGAAGCTCGATGAGACGACGCGCCGAGCATTACTCAACGACTTGATGGAGG
서열번호 1459	Str-10	1	Str-10_1	CTCTGCGACACCGCCGCTCGTCTGCACGCGCCGCGGTCCGGACCGCCGCCCGATCTCCAT
서열번호 1460	Str-10	2	Str-10_2	TCTGCGACACCGCCGCTCGTCTGCACGCGCCGCGGTCCGGACCGCCGCCCGATCTCCATC
서열번호 1461	Str-10	3	Str-10_3	CTGCGACACCGCCGCTCGTCTGCACGCGCCGCGGTCCGGACCGCCGCCCGATCTCCATCC
서열번호 1462	Str-10	4	Str-10_4	TGCGACACCGCCGCTCGTCTGCACGCGCCGCGGTCCGGACCGCCGCCCGATCTCCATCCG
서열번호 1463	Str-10	5	Str-10_5	GCGACACCGCCGCTCGTCTGCACGCGCCGCGGTCCGGACCGCCGCCCGATCTCCATCCGC
서열번호 1464	Str-10	6	Str-10_6	CGACACCGCCGCTCGTCTGCACGCGCCGCGGTCCGGACCGCCGCCCGATCTCCATCCGCT
서열번호 1465	Str-10	7	Str-10_7	GACACCGCCGCTCGTCTGCACGCGCCGCGGTCCGGACCGCCGCCCGATCTCCATCCGCTA
서열번호 1466	Str-10	8	Str-10_8	ACACCGCCGCTCGTCTGCACGCGCCGCGGTCCGGACCGCCGCCCGATCTCCATCCGCTAC
서열번호 1467	Str-10	9	Str-10_9	CACCGCCGCTCGTCTGCACGCGCCGCGGTCCGGACCGCCGCCCGATCTCCATCCGCTACA
서열번호 1468	Str-10	10	Str-10_10	ACACCGCCGCTCGTCTGCACGCGCCGCGGTCCGGACCGCCGCCCGATCTCCATCCGCTAC
서열번호 1469	Str-10	11	Str-10_11	CACCGCCGCTCGTCTGCACGCGCCGCGGTCCGGACCGCCGCCCGATCTCCATCCGCTACA
서열번호 1470	Str-11	1	Str-11_1	GCTGCCCATGGGGGTCGCCGAGGGCTGCGTGCTGCGCCGGGACATCGCCCGGGACGCGGT
서열번호 1471	Str-11	2	Str-11_2	CTGCCCATGGGGGTCGCCGAGGGCTGCGTGCTGCGCCGGGACATCGCCCGGGACGCGGTG
서열번호 1472	Str-11	3	Str-11_3	TGCCCATGGGGGTCGCCGAGGGCTGCGTGCTGCGCCGGGACATCGCCCGGGACGCGGTGC
서열번호 1473	Str-11	4	Str-11_4	GCCCATGGGGGTCGCCGAGGGCTGCGTGCTGCGCCGGGACATCGCCCGGGACGCGGTGCT
서열번호 1474	Str-11	5	Str-11_5	CCCATGGGGGTCGCCGAGGGCTGCGTGCTGCGCCGGGACATCGCCCGGGACGCGGTGCTC
서열번호 1475	Str-11	6	Str-11_6	GCTGCCCATGGGGGTCGCCGAGGGCTGCGTGCTGCGCCGGGACATCGCCCGGGACGCGGT
서열번호 1476	Str-11	7	Str-11_7	CTGCCCATGGGGGTCGCCGAGGGCTGCGTGCTGCGCCGGGACATCGCCCGGGACGCGGTG
서열번호 1477	Str-11	8	Str-11_8	TGCCCATGGGGGTCGCCGAGGGCTGCGTGCTGCGCCGGGACATCGCCCGGGACGCGGTGC
서열번호 1478	Str-11	9	Str-11_9	GCCCATGGGGGTCGCCGAGGGCTGCGTGCTGCGCCGGGACATCGCCCGGGACGCGGTGCT
서열번호 1479	Str-11	10	Str-11_10	CCCATGGGGGTCGCCGAGGGCTGCGTGCTGCGCCGGGACATCGCCCGGGACGCGGTGCTC

서열번호 1480	Str-11	11	Str-11_11	CCCATGGGGGTCGCCGAGGGCTGCGTGCTGCGCCGGGACATCGCCCGGGACGCG GTGCTC
서열번호 1481	Str-12	1	Str-12_1	CAACGCGAGACCGGCGAGGCCCCGCCCGGGCCCCTGCCGTCCACCGACCTCGTG ACCCGG
서열번호 1482	Str-12	2	Str-12_2	AACGCGAGACCGGCGAGGCCCCGCCCGGGCCCCTGCCGTCCACCGACCTCGTGA CCCGGG
서열번호 1483	Str-12	3	Str-12_3	ACGCGAGACCGGCGAGGCCCCGCCCGGGCCCCTGCCGTCCACCGACCTCGTGAC CCGGGG
서열번호 1484	Str-12	4	Str-12_4	CGCGAGACCGGCGAGGCCCCGCCCGGGCCCCTGCCGTCCACCGACCTCGTGACC CGGGGG
서열번호 1485	Str-12	5	Str-12_5	GCGAGACCGGCGAGGCCCCGCCCGGGCCCCTGCCGTCCACCGACCTCGTGACCC GGGGGA
서열번호 1486	Str-12	6	Str-12_6	CGAGACCGGCGAGGCCCCGCCCGGGCCCCTGCCGTCCACCGACCTCGTGACCCG GGGGAG
서열번호 1487	Str-12	7	Str-12_7	GAGACCGGCGAGGCCCCGCCCGGGCCCCTGCCGTCCACCGACCTCGTGACCCGG GGGAGC
서열번호 1488	Str-12	8	Str-12_8	AGACCGGCGAGGCCCCGCCCGGGCCCCTGCCGTCCACCGACCTCGTGACCCGGG GGAGCG
서열번호 1489	Str-12	9	Str-12_9	GACCGGCGAGGCCCCGCCCGGGCCCCTGCCGTCCACCGACCTCGTGACCCGGGG GAGCGC
서열번호 1490	Str-12	10	Str-12_10	ACCGGCGAGGCCCCGCCCGGGCCCCTGCCGTCCACCGACCTCGTGACCCGGGGG AGCGCC
서열번호 1491	Str-12	11	Str-12_11	CCGGCGAGGCCCCGCCCGGGCCCCTGCCGTCCACCGACCTCGTGACCCGGGGGA GCGCCG
서열번호 1492	Str-13	1	Str-13_1	CTCTACGTCCGCCAGCTGATCTTCCCGCTGGACGACATACTGAGCTGGACGGAC GAACTG
서열번호 1493	Str-13	2	Str-13_2	TCTACGTCCGCCAGCTGATCTTCCCGCTGGACGACATACTGAGCTGGACGGACG AACTGC
서열번호 1494	Str-13	3	Str-13_3	CTACGTCCGCCAGCTGATCTTCCCGCTGGACGACATACTGAGCTGGACGGACGA ACTGCA
서열번호 1495	Str-13	4	Str-13_4	TACGTCCGCCAGCTGATCTTCCCGCTGGACGACATACTGAGCTGGACGGACGAA CTGCAG
서열번호 1496	Str-13	5	Str-13_5	ACGTCCGCCAGCTGATCTTCCCGCTGGACGACATACTGAGCTGGACGGACGAAC TGCAGA
서열번호 1497	Str-13	6	Str-13_6	CGTCCGCCAGCTGATCTTCCCGCTGGACGACATACTGAGCTGGACGGACGAACT GCAGAT
서열번호 1498	Str-13	7	Str-13_7	GTCCGCCAGCTGATCTTCCCGCTGGACGACATACTGAGCTGGACGGACGAACTG CAGATC
서열번호 1499	Str-13	8	Str-13_8	TCCGCCAGCTGATCTTCCCGCTGGACGACATACTGAGCTGGACGGACGAACTGC AGATCG
서열번호 1500	Str-13	9	Str-13_9	CCGCCAGCTGATCTTCCCGCTGGACGACATACTGAGCTGGACGGACGAACTGCA GATCGG
서열번호 1501	Str-13	10	Str-13_10	CGCCAGCTGATCTTCCCGCTGGACGACATACTGAGCTGGACGGACGAACTGCAG ATCGGC
서열번호 1502	Str-13	11	Str-13_11	GCCAGCTGATCTTCCCGCTGGACGACATACTGAGCTGGACGGACGAACTGCAGA TCGGCT
서열번호 1503	Str-14	1	Str-14_1	ATCGCCCTGCTGCTGTCCCTGGTGGCACAGGCCGTCCTGACCTACTGGGCGGTG CAGCGC
서열번호 1504	Str-14	2	Str-14_2	TCGCCCTGCTGCTGTCCCTGGTGGCACAGGCCGTCCTGACCTACTGGGCGGTGC AGCGCT
서열번호 1505	Str-14	3	Str-14_3	CGCCCTGCTGCTGTCCCTGGTGGCACAGGCCGTCCTGACCTACTGGGCGGTGCA GCGCTC
서열번호 1506	Str-14	4	Str-14_4	GCCCTGCTGCTGTCCCTGGTGGCACAGGCCGTCCTGACCTACTGGGCGGTGCAG CGCTCC
서열번호 1507	Str-14	5	Str-14_5	CCCTGCTGCTGTCCCTGGTGGCACAGGCCGTCCTGACCTACTGGGCGGTGCAGC GCTCCT
서열번호 1508	Str-14	6	Str-14_6	CCTGCTGCTGTCCCTGGTGGCACAGGCCGTCCTGACCTACTGGGCGGTGCAGCG CTCCTG
서열번호 1509	Str-14	7	Str-14_7	CTGCTGCTGTCCCTGGTGGCACAGGCCGTCCTGACCTACTGGGCGGTGCAGCGC TCCTGC
서열번호 1510	Str-14	8	Str-14_8	TGCTGCTGTCCCTGGTGGCACAGGCCGTCCTGACCTACTGGGCGGTGCAGCGCT CCTGCC
서열번호 1511	Str-14	9	Str-14_9	GCTGCTGTCCCTGGTGGCACAGGCCGTCCTGACCTACTGGGCGGTGCAGCGCTC CTGCCG

서열번호 1512	Str-14	10	Str-14_10	CTGCTGTCCCTGGTGGCACAGGCCGTCCTGACCTACTGGGCGGTGCAGCGCTCC TGCCGG
서열번호 1513	Str-14	11	Str-14_11	TGCTGTCCCTGGTGGCACAGGCCGTCCTGACCTACTGGGCGGTGCAGCGCTCCT GCCGGT
서열번호 1514	Str-15	1	Str-15_1	GTGTTGATTCATGAAACTCCGCTGGCCGGCGCCGCTCTCATCGAACTGAGCGAA TTGAGG
서열번호 1515	Str-15	2	Str-15_2	TGTTGATTCATGAAACTCCGCTGGCCGGCGCCGCTCTCATCGAACTGAGCGAAT TGAGGG
서열번호 1516	Str-15	3	Str-15_3	GTTGATTCATGAAACTCCGCTGGCCGGCGCCGCTCTCATCGAACTGAGCGAATT GAGGGA
서열번호 1517	Str-15	4	Str-15_4	TTGATTCATGAAACTCCGCTGGCCGGCGCCGCTCTCATCGAACTGAGCGAATTG AGGGAC
서열번호 1518	Str-15	5	Str-15_5	TGATTCATGAAACTCCGCTGGCCGGCGCCGCTCTCATCGAACTGAGCGAATTGA GGGACG
서열번호 1519	Str-15	6	Str-15_6	GATTCATGAAACTCCGCTGGCCGGCGCCGCTCTCATCGAACTGAGCGAATTGAG GGACGA
서열번호 1520	Str-15	7	Str-15_7	ATTCATGAAACTCCGCTGGCCGGCGCCGCTCTCATCGAACTGAGCGAATTGAGG GACGAA
서열번호 1521	Str-15	8	Str-15_8	TTCATGAAACTCCGCTGGCCGGCGCCGCTCTCATCGAACTGAGCGAATTGAGGG ACGAAA
서열번호 1522	Str-15	9	Str-15_9	TCATGAAACTCCGCTGGCCGGCGCCGCTCTCATCGAACTGAGCGAATTGAGGGA CGAAAG
서열번호 1523	Str-15	10	Str-15_10	CATGAAACTCCGCTGGCCGGCGCCGCTCTCATCGAACTGAGCGAATTGAGGGAC GAAAGG
서열번호 1524	Str-15	11	Str-15_11	CATGAAACTCCGCTGGCCGGCGCCGCTCTCATCGAACTGAGCGAATTGAGGGAC GAAAGG
서열번호 1525	Sula-1	1	Sula-1_1	GTGGAAGTCGCTGCGGAGGCCGACGCCATGGTGACGGTGTTCGGCATTCTGAAT CTCACC
서열번호 1526	Sula-1	2	Sula-1_2	TGGAAGTCGCTGCGGAGGCCGACGCCATGGTGACGGTGTTCGGCATTCTGAATC TCACCG
서열번호 1527	Sula-1	3	Sula-1_3	GGAAGTCGCTGCGGAGGCCGACGCCATGGTGACGGTGTTCGGCATTCTGAATCT CACCGA
서열번호 1528	Sula-1	4	Sula-1_4	GAAGTCGCTGCGGAGGCCGACGCCATGGTGACGGTGTTCGGCATTCTGAATCTC ACCGAG
서열번호 1529	Sula-1	5	Sula-1_5	AAGTCGCTGCGGAGGCCGACGCCATGGTGACGGTGTTCGGCATTCTGAATCTCA CCGAGG
서열번호 1530	Sula-1	6	Sula-1_6	AGTCGCTGCGGAGGCCGACGCCATGGTGACGGTGTTCGGCATTCTGAATCTCAC CGAGGA
서열번호 1531	Sula-1	7	Sula-1_7	GTCGCTGCGGAGGCCGACGCCATGGTGACGGTGTTCGGCATTCTGAATCTCACC GAGGAC
서열번호 1532	Sula-1	8	Sula-1_8	TCGCTGCGGAGGCCGACGCCATGGTGACGGTGTTCGGCATTCTGAATCTCACCG AGGACT
서열번호 1533	Sula-1	9	Sula-1_9	CGCTGCGGAGGCCGACGCCATGGTGACGGTGTTCGGCATTCTGAATCTCACCGA GGACTC
서열번호 1534	Sula-1	10	Sula-1_10	GCTGCGGAGGCCGACGCCATGGTGACGGTGTTCGGCATTCTGAATCTCACCGAG GACTCC
서열번호 1535	Sula-1	11	Sula-1_11	CTGCGGAGGCCGACGCCATGGTGACGGTGTTCGGCATTCTGAATCTCACCGAGG ACTCCT
서열번호 1536	Sula-2	1	Sula-2_1	CTCGGTGCTGGCGCGGTTCGATGAATTGCGGCTGCGCTTCGATTTGCCGGTGCT TCTGTC
서열번호 1537	Sula-2	2	Sula-2_2	TCGGTGCTGGCGCGGTTCGATGAATTGCGGCTGCGCTTCGATTTGCCGGTGCTT CTGTCT
서열번호 1538	Sula-2	3	Sula-2_3	CGGTGCTGGCGCGGTTCGATGAATTGCGGCTGCGCTTCGATTTGCCGGTGCTTC TGTCTG
서열번호 1539	Sula-2	4	Sula-2_4	GGTGCTGGCGCGGTTCGATGAATTGCGGCTGCGCTTCGATTTGCCGGTGCTTCT GTCTGT
서열번호 1540	Sula-2	5	Sula-2_5	GTGCTGGCGCGGTTCGATGAATTGCGGCTGCGCTTCGATTTGCCGGTGCTTCTG TCTGTT
서열번호 1541	Sula-2	6	Sula-2_6	TGCTGGCGCGGTTCGATGAATTGCGGCTGCGCTTCGATTTGCCGGTGCTTCTGT CTGTTT
서열번호 1542	Sula-2	7	Sula-2_7	GCTGGCGCGGTTCGATGAATTGCGGCTGCGCTTCGATTTGCCGGTGCTTCTGTC TGTTTC
서열번호 1543	Sula-2	8	Sula-2_8	CTGGCGCGGTTCGATGAATTGCGGCTGCGCTTCGATTTGCCGGTGCTTCTGTCT GTTTCG

서열번호 1544	Sula-2	9	Sula-2_9	TGGCGCGGTTCGATGAATTGCGGCTGCGCTTCGATTTGCCGGTGCTTCTGTCTG TTTCGC
서열번호 1545	Sula-2	10	Sula-2_10	GGCGCGGTTCGATGAATTGCGGCTGCGCTTCGATTTGCCGGTGCTTCTGTCTGT TTCGCG
서열번호 1546	Sula-2	11	Sula-2_11	GCGCGGTTCGATGAATTGCGGCTGCGCTTCGATTTGCCGGTGCTTCTGTCTGTT TCGCGC
서열번호 1547	Sula-3	1	Sula-3_1	CTACTAAAGTTGAAACGAATCCGGAAGAGGTTTTTACTTCCATGATGGAATTTT TTAAAG
서열번호 1548	Sula-3	2	Sula-3_2	TACTAAAGTTGAAACGAATCCGGAAGAGGTTTTTACTTCCATGATGGAATTTTT TAAAGA
서열번호 1549	Sula-3	3	Sula-3_3	ACTAAAGTTGAAACGAATCCGGAAGAGGTTTTTACTTCCATGATGGAATTTTTT AAAGAA
서열번호 1550	Sula-3	4	Sula-3_4	CTAAAGTTGAAACGAATCCGGAAGAGGTTTTTACTTCCATGATGGAATTTTTTA AAGAAA
서열번호 1551	Sula-3	5	Sula-3_5	TAAAGTTGAAACGAATCCGGAAGAGGTTTTTACTTCCATGATGGAATTTTTTAA AGAAAG
서열번호 1552	Sula-3	6	Sula-3_6	AAAGTTGAAACGAATCCGGAAGAGGTTTTTACTTCCATGATGGAATTTTTTAAA GAAAGA
서열번호 1553	Sula-3	7	Sula-3_7	AAGTTGAAACGAATCCGGAAGAGGTTTTTACTTCCATGATGGAATTTTTTAAAG AAAGAA
서열번호 1554	Sula-3	8	Sula-3_8	AGTTGAAACGAATCCGGAAGAGGTTTTTACTTCCATGATGGAATTTTTTAAAGA AAGAAT
서열번호 1555	Sula-3	9	Sula-3_9	GTTGAAACGAATCCGGAAGAGGTTTTTACTTCCATGATGGAATTTTTTAAAGAA AGAATT
서열번호 1556	Sula-3	10	Sula-3_10	TTGAAACGAATCCGGAAGAGGTTTTTACTTCCATGATGGAATTTTTTAAAGAAA GAATTG
서열번호 1557	Sula-3	11	Sula-3_11	TGAAACGAATCCGGAAGAGGTTTTTACTTCCATGATGGAATTTTTTAAAGAAAG AATTGC
서열번호 1558	Sula-5	1	Sula-5_1	TTTCTTGAGCCCCGCACCGGAAACATCGCTGCACGTGCTGTCGAACCTTCAAAA GCTGAA
서열번호 1559	Sula-5	2	Sula-5_2	TTTCTTGAGCCCCGCACCGGAAACATCGCTGCACGTGCTGTCGAACCTTCAAAA GCTGAA
서열번호 1560	Sula-5	3	Sula-5_3	TTTCTTGAGCCCCGCACCGGAAACATCGCTGCACGTGCTGTCGAACCTTCAAAA GCTGAA
서열번호 1561	Sula-5	4	Sula-5_4	TTTCTTGAGCCCCGCACCGGAAACATCGCTGCACGTGCTGTCGAACCTTCAAAA GCTGAA
서열번호 1562	Sula-5	5	Sula-5_5	TTTCTTGAGCCCCGCACCGGAAACATCGCTGCACGTGCTGTCGAACCTTCAAAA GCTGAA
서열번호 1563	Sula-5	6	Sula-5_6	TTTCTTGAGCCCCGCACCGGAAACATCGCTGCACGTGCTGTCGAACCTTCAAAA GCTGAA
서열번호 1564	Sula-5	7	Sula-5_7	TTTCTTGAGCCCCGCACCGGAAACATCGCTGCACGTGCTGTCGAACCTTCAAAA GCTGAA
서열번호 1565	Sula-5	8	Sula-5_8	TTTCTTGAGCCCCGCACCGGAAACATCGCTGCACGTGCTGTCGAACCTTCAAAA GCTGAA
서열번호 1566	Sula-5	9	Sula-5_9	TTTCTTGAGCCCCGCACCGGAAACATCGCTGCACGTGCTGTCGAACCTTCAAAA GCTGAA
서열번호 1567	Sula-5	10	Sula-5_10	TTTCTTGAGCCCCGCACCGGAAACATCGCTGCACGTGCTGTCGAACCTTCAAAA GCTGAA
서열번호 1568	Sula-5	11	Sula-5_11	TTTCTTGAGCCCCGCACCGGAAACATCGCTGCACGTGCTGTCGAACCTTCAAAA GCTGAA
서열번호 1569	Sula-6	1	Sula-6_1	GATTTTTCTTGAGCCCCGCACCGGAAACATCGCTGCACGTGCTGTCGAACCTTC AAAAGC
서열번호 1570	Sula-6	2	Sula-6_2	GATTTTTCTTGAGCCCCGCACCGGAAACATCGCTGCACGTGCTGTCGAACCTTC AAAAGC
서열번호 1571	Sula-6	3	Sula-6_3	GATTTTTCTTGAGCCCCGCACCGGAAACATCGCTGCACGTGCTGTCGAACCTTC AAAAGC
서열번호 1572	Sula-6	4	Sula-6_4	GATTTTTCTTGAGCCCCGCACCGGAAACATCGCTGCACGTGCTGTCGAACCTTC AAAAGC
서열번호 1573	Sula-6	5	Sula-6_5	GATTTTTCTTGAGCCCCGCACCGGAAACATCGCTGCACGTGCTGTCGAACCTTC AAAAGC
서열번호 1574	Sula-6	6	Sula-6_6	GATTTTTCTTGAGCCCCGCACCGGAAACATCGCTGCACGTGCTGTCGAACCTTC AAAAGC
서열번호 1575	Sula-6	7	Sula-6_7	GATTTTTCTTGAGCCCCGCACCGGAAACATCGCTGCACGTGCTGTCGAACCTTC AAAAGC

서열번호 1576	Sula-6	8	Sula-6_8	GATTTTTCTTGAGCCCCGCACCGGAAACATCGCTGCACGTGCTGTCGAACCTTC AAAAGC
서열번호 1577	Sula-6	9	Sula-6_9	GATTTTTCTTGAGCCCCGCACCGGAAACATCGCTGCACGTGCTGTCGAACCTTC AAAAGC
서열번호 1578	Sula-6	10	Sula-6_10	GATTTTTCTTGAGCCCCGCACCGGAAACATCGCTGCACGTGCTGTCGAACCTTC AAAAGC
서열번호 1579	Sula-6	11	Sula-6_11	GATTTTTCTTGAGCCCCGCACCGGAAACATCGCTGCACGTGCTGTCGAACCTTC AAAAGC
서열번호 1580	Sula-9	1	Sula-9_1	AGCGCCGGCGGGGTCTAGCCGCCGGCTCTCATCGAAGAAGGAGTCCTCGGTGAG ATTCAG
서열번호 1581	Sula-9	2	Sula-9_2	GCGCCGGCGGGGTCTAGCCGCCGGCTCTCATCGAAGAAGGAGTCCTCGGTGAGA TTCAGA
서열번호 1582	Sula-9	3	Sula-9_3	CGCCGGCGGGGTCTAGCCGCCGGCTCTCATCGAAGAAGGAGTCCTCGGTGAGAT TCAGAA
서열번호 1583	Sula-9	4	Sula-9_4	GCCGGCGGGGTCTAGCCGCCGGCTCTCATCGAAGAAGGAGTCCTCGGTGAGATT CAGAAT
서열번호 1584	Sula-9	5	Sula-9_5	CCGGCGGGGTCTAGCCGCCGGCTCTCATCGAAGAAGGAGTCCTCGGTGAGATTC AGAATG
서열번호 1585	Sula-9	6	Sula-9_6	CGGCGGGGTCTAGCCGCCGGCTCTCATCGAAGAAGGAGTCCTCGGTGAGATTCA GAATGC
서열번호 1586	Sula-9	7	Sula-9_7	GGCGGGGTCTAGCCGCCGGCTCTCATCGAAGAAGGAGTCCTCGGTGAGATTCAG AATGCC
서열번호 1587	Sula-9	8	Sula-9_8	GCGGGGTCTAGCCGCCGGCTCTCATCGAAGAAGGAGTCCTCGGTGAGATTCAGA ATGCCG
서열번호 1588	Sula-9	9	Sula-9_9	CGGGGTCTAGCCGCCGGCTCTCATCGAAGAAGGAGTCCTCGGTGAGATTCAGAA TGCCGA
서열번호 1589	Sula-9	10	Sula-9_10	GGGGTCTAGCCGCCGGCTCTCATCGAAGAAGGAGTCCTCGGTGAGATTCAGAAT GCCGAA
서열번호 1590	Sula-9	11	Sula-9_11	GGGTCTAGCCGCCGGCTCTCATCGAAGAAGGAGTCCTCGGTGAGATTCAGAATG CCGAAC
서열번호 1591	Sula-10	1	Sula-10_1	TACGCGCCTGCGCAATGGCTGCGTCTGGCGCCAGATACCGGCCTCCATCGGAGA AACTGT
서열번호 1592	Sula-10	2	Sula-10_2	ACGCGCCTGCGCAATGGCTGCGTCTGGCGCCAGATACCGGCCTCCATCGGAGAA ACTGTC
서열번호 1593	Sula-10	3	Sula-10_3	CGCGCCTGCGCAATGGCTGCGTCTGGCGCCAGATACCGGCCTCCATCGGAGAAA CTGTCC
서열번호 1594	Sula-10	4	Sula-10_4	GCGCCTGCGCAATGGCTGCGTCTGGCGCCAGATACCGGCCTCCATCGGAGAAAC TGTCCG
서열번호 1595	Sula-10	5	Sula-10_5	CGCCTGCGCAATGGCTGCGTCTGGCGCCAGATACCGGCCTCCATCGGAGAAACT GTCCGA
서열번호 1596	Sula-10	6	Sula-10_6	GCCTGCGCAATGGCTGCGTCTGGCGCCAGATACCGGCCTCCATCGGAGAAACTG TCCGAG
서열번호 1597	Sula-10	7	Sula-10_7	CCTGCGCAATGGCTGCGTCTGGCGCCAGATACCGGCCTCCATCGGAGAAACTGT CCGAGG
서열번호 1598	Sula-10	8	Sula-10_8	CTGCGCAATGGCTGCGTCTGGCGCCAGATACCGGCCTCCATCGGAGAAACTGTC CGAGGT
서열번호 1599	Sula-10	9	Sula-10_9	TGCGCAATGGCTGCGTCTGGCGCCAGATACCGGCCTCCATCGGAGAAACTGTCC GAGGTT
서열번호 1600	Sula-10	10	Sula-10_10	GCGCAATGGCTGCGTCTGGCGCCAGATACCGGCCTCCATCGGAGAAACTGTCCG AGGTTA
서열번호 1601	Sula-10	11	Sula-10_11	CGCAATGGCTGCGTCTGGCGCCAGATACCGGCCTCCATCGGAGAAACTGTCCGA GGTTAT

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서열번호	TargetID	BPStart	프로브 명칭	염기서열
서열번호 1602	Tet-1	1	Tet-1_1	TCGCTATATCACAATCGCCCTCTTAATTACCTTCCTAGATGCAACAGGAATGGG CTTAAT
서열번호 1603	Tet-1	2	Tet-1_2	CGCTATATCACAATCGCCCTCTTAATTACCTTCCTAGATGCAACAGGAATGGGC TTAATC
서열번호 1604	Tet-1	3	Tet-1_3	GCTATATCACAATCGCCCTCTTAATTACCTTCCTAGATGCAACAGGAATGGGCT TAATCA

서열번호 1605	Tet-1	4	Tet-1_4	CTATATCACAATCGCCCTCTTAATTACCTTCCTAGATGCAACAGGAATGGGCTTAATCAT
서열번호 1606	Tet-1	5	Tet-1_5	TATATCACAATCGCCCTCTTAATTACCTTCCTAGATGCAACAGGAATGGGCTTAATCATG
서열번호 1607	Tet-1	6	Tet-1_6	ATATCACAATCGCCCTCTTAATTACCTTCCTAGATGCAACAGGAATGGGCTTAATCATGC
서열번호 1608	Tet-1	7	Tet-1_7	TATCACAATCGCCCTCTTAATTACCTTCCTAGATGCAACAGGAATGGGCTTAATCATGCC
서열번호 1609	Tet-1	8	Tet-1_8	ATCACAATCGCCCTCTTAATTACCTTCCTAGATGCAACAGGAATGGGCTTAATCATGCCT
서열번호 1610	Tet-1	9	Tet-1_9	TCACAATCGCCCTCTTAATTACCTTCCTAGATGCAACAGGAATGGGCTTAATCATGCCTG
서열번호 1611	Tet-1	10	Tet-1_10	CACAATCGCCCTCTTAATTACCTTCCTAGATGCAACAGGAATGGGCTTAATCATGCCTGT
서열번호 1612	Tet-1	11	Tet-1_11	ACAATCGCCCTCTTAATTACCTTCCTAGATGCAACAGGAATGGGCTTAATCATGCCTGTA
서열번호 1613	Tet-2	1	Tet-2_1	AAAACAGATGCCAGCTGAACAGTGGAAAGGTATTTGGGCGGTGAGCCGTGGCGGTCTAGT
서열번호 1614	Tet-2	2	Tet-2_2	AAACAGATGCCAGCTGAACAGTGGAAAGGTATTTGGGCGGTGAGCCGTGGCGGTCTAGTA
서열번호 1615	Tet-2	3	Tet-2_3	AACAGATGCCAGCTGAACAGTGGAAAGGTATTTGGGCGGTGAGCCGTGGCGGTCTAGTAC
서열번호 1616	Tet-2	4	Tet-2_4	ACAGATGCCAGCTGAACAGTGGAAAGGTATTTGGGCGGTGAGCCGTGGCGGTCTAGTACC
서열번호 1617	Tet-2	5	Tet-2_5	CAGATGCCAGCTGAACAGTGGAAAGGTATTTGGGCGGTGAGCCGTGGCGGTCTAGTACCG
서열번호 1618	Tet-2	6	Tet-2_6	AGATGCCAGCTGAACAGTGGAAAGGTATTTGGGCGGTGAGCCGTGGCGGTCTAGTACCGG
서열번호 1619	Tet-2	7	Tet-2_7	GATGCCAGCTGAACAGTGGAAAGGTATTTGGGCGGTGAGCCGTGGCGGTCTAGTACCGGG
서열번호 1620	Tet-2	8	Tet-2_8	ACAGATGCCAGCTGAACAGTGGAAAGGTATTTGGGCGGTGAGCCGTGGCGGTCTAGTACC
서열번호 1621	Tet-2	9	Tet-2_9	CAGATGCCAGCTGAACAGTGGAAAGGTATTTGGGCGGTGAGCCGTGGCGGTCTAGTACCG
서열번호 1622	Tet-2	10	Tet-2_10	AGATGCCAGCTGAACAGTGGAAAGGTATTTGGGCGGTGAGCCGTGGCGGTCTAGTACCGG
서열번호 1623	Tet-2	11	Tet-2_11	GATGCCAGCTGAACAGTGGAAAGGTATTTGGGCGGTGAGCCGTGGCGGTCTAGTACCGGG
서열번호 1624	Tet-3	1	Tet-3_1	GCAAGCTCATCGCGTCCTCGGGCCGGTTCAAGAAACTGGCGATCGTGGGCCTGGGCTCGA
서열번호 1625	Tet-3	2	Tet-3_2	CAAGCTCATCGCGTCCTCGGGCCGGTTCAAGAAACTGGCGATCGTGGGCCTGGGCTCGAT
서열번호 1626	Tet-3	3	Tet-3_3	AAGCTCATCGCGTCCTCGGGCCGGTTCAAGAAACTGGCGATCGTGGGCCTGGGCTCGATG
서열번호 1627	Tet-3	4	Tet-3_4	AGCTCATCGCGTCCTCGGGCCGGTTCAAGAAACTGGCGATCGTGGGCCTGGGCTCGATGG
서열번호 1628	Tet-3	5	Tet-3_5	GCTCATCGCGTCCTCGGGCCGGTTCAAGAAACTGGCGATCGTGGGCCTGGGCTCGATGGC
서열번호 1629	Tet-3	6	Tet-3_6	CTCATCGCGTCCTCGGGCCGGTTCAAGAAACTGGCGATCGTGGGCCTGGGCTCGATGGCC
서열번호 1630	Tet-3	7	Tet-3_7	TCATCGCGTCCTCGGGCCGGTTCAAGAAACTGGCGATCGTGGGCCTGGGCTCGATGGCCG
서열번호 1631	Tet-3	8	Tet-3_8	CATCGCGTCCTCGGGCCGGTTCAAGAAACTGGCGATCGTGGGCCTGGGCTCGATGGCCGG
서열번호 1632	Tet-3	9	Tet-3_9	ATCGCGTCCTCGGGCCGGTTCAAGAAACTGGCGATCGTGGGCCTGGGCTCGATGGCCGGG
서열번호 1633	Tet-3	10	Tet-3_10	TCGCGTCCTCGGGCCGGTTCAAGAAACTGGCGATCGTGGGCCTGGGCTCGATGGCCGGGG
서열번호 1634	Tet-3	11	Tet-3_11	CGCGTCCTCGGGCCGGTTCAAGAAACTGGCGATCGTGGGCCTGGGCTCGATGGCCGGGGC
서열번호 1635	Tet-4	1	Tet-4_1	GTTCGCTATTACTCTAACATTGTAGGTAAATACGGTATTCCAGTTCAGAATGCACTGAAG
서열번호 1636	Tet-4	2	Tet-4_2	TTCGCTATTACTCTAACATTGTAGGTAAATACGGTATTCCAGTTCAGAATGCACTGAAGA

서열번호 1637	Tet-4	3	Tet-4_3	TCGCTATTACTCTAACATTGTAGGTAAATACGGTATTCCAGTTCAGAATGCACTGAAGAA
서열번호 1638	Tet-4	4	Tet-4_4	CGCTATTACTCTAACATTGTAGGTAAATACGGTATTCCAGTTCAGAATGCACTGAAGAAA
서열번호 1639	Tet-4	5	Tet-4_5	GCTATTACTCTAACATTGTAGGTAAATACGGTATTCCAGTTCAGAATGCACTGAAGAAAC
서열번호 1640	Tet-4	6	Tet-4_6	CTATTACTCTAACATTGTAGGTAAATACGGTATTCCAGTTCAGAATGCACTGAAGAAACT
서열번호 1641	Tet-4	7	Tet-4_7	TATTACTCTAACATTGTAGGTAAATACGGTATTCCAGTTCAGAATGCACTGAAGAAACTT
서열번호 1642	Tet-4	8	Tet-4_8	ATTACTCTAACATTGTAGGTAAATACGGTATTCCAGTTCAGAATGCACTGAAGAAACTTG
서열번호 1643	Tet-4	9	Tet-4_9	TTACTCTAACATTGTAGGTAAATACGGTATTCCAGTTCAGAATGCACTGAAGAAACTTGC
서열번호 1644	Tet-4	10	Tet-4_10	TACTCTAACATTGTAGGTAAATACGGTATTCCAGTTCAGAATGCACTGAAGAAACTTGCA
서열번호 1645	Tet-4	11	Tet-4_11	ACTCTAACATTGTAGGTAAATACGGTATTCCAGTTCAGAATGCACTGAAGAAACTTGCAG
서열번호 1646	Tet-5	1	Tet-5_1	TGCAACGGCTGATTATCTCCTAATGGCTGCTGCTCCTTCTCTATTGTGGCTATATATTGG
서열번호 1647	Tet-5	2	Tet-5_2	GCAACGGCTGATTATCTCCTAATGGCTGCTGCTCCTTCTCTATTGTGGCTATATATTGGT
서열번호 1648	Tet-5	3	Tet-5_3	CAACGGCTGATTATCTCCTAATGGCTGCTGCTCCTTCTCTATTGTGGCTATATATTGGTC
서열번호 1649	Tet-5	4	Tet-5_4	AACGGCTGATTATCTCCTAATGGCTGCTGCTCCTTCTCTATTGTGGCTATATATTGGTCG
서열번호 1650	Tet-5	5	Tet-5_5	ACGGCTGATTATCTCCTAATGGCTGCTGCTCCTTCTCTATTGTGGCTATATATTGGTCGT
서열번호 1651	Tet-5	6	Tet-5_6	CGGCTGATTATCTCCTAATGGCTGCTGCTCCTTCTCTATTGTGGCTATATATTGGTCGTA
서열번호 1652	Tet-5	7	Tet-5_7	GGCTGATTATCTCCTAATGGCTGCTGCTCCTTCTCTATTGTGGCTATATATTGGTCGTAT
서열번호 1653	Tet-5	8	Tet-5_8	GCTGATTATCTCCTAATGGCTGCTGCTCCTTCTCTATTGTGGCTATATATTGGTCGTATT
서열번호 1654	Tet-5	9	Tet-5_9	CTGATTATCTCCTAATGGCTGCTGCTCCTTCTCTATTGTGGCTATATATTGGTCGTATTT
서열번호 1655	Tet-5	10	Tet-5_10	TGATTATCTCCTAATGGCTGCTGCTCCTTCTCTATTGTGGCTATATATTGGTCGTATTTT
서열번호 1656	Tet-5	11	Tet-5_11	GATTATCTCCTAATGGCTGCTGCTCCTTCTCTATTGTGGCTATATATTGGTCGTATTTTT
서열번호 1657	Tet-6	1	Tet-6_1	CCGGCCCTGTAGCCGCCCGGCTCGGCGAAAGGCGGGCACTCATGCTCGGAATGATTGCCG
서열번호 1658	Tet-6	2	Tet-6_2	CGGCCCTGTAGCCGCCCGGCTCGGCGAAAGGCGGGCACTCATGCTCGGAATGATTGCCGA
서열번호 1659	Tet-6	3	Tet-6_3	GGCCCTGTAGCCGCCCGGCTCGGCGAAAGGCGGGCACTCATGCTCGGAATGATTGCCGAC
서열번호 1660	Tet-6	4	Tet-6_4	GCCCTGTAGCCGCCCGGCTCGGCGAAAGGCGGGCACTCATGCTCGGAATGATTGCCGACG
서열번호 1661	Tet-6	5	Tet-6_5	CCCTGTAGCCGCCCGGCTCGGCGAAAGGCGGGCACTCATGCTCGGAATGATTGCCGACGG
서열번호 1662	Tet-6	6	Tet-6_6	CCTGTAGCCGCCCGGCTCGGCGAAAGGCGGGCACTCATGCTCGGAATGATTGCCGACGGC
서열번호 1663	Tet-6	7	Tet-6_7	CTGTAGCCGCCCGGCTCGGCGAAAGGCGGGCACTCATGCTCGGAATGATTGCCGACGGCA
서열번호 1664	Tet-6	8	Tet-6_8	TGTAGCCGCCCGGCTCGGCGAAAGGCGGGCACTCATGCTCGGAATGATTGCCGACGGCAC
서열번호 1665	Tet-6	9	Tet-6_9	GTAGCCGCCCGGCTCGGCGAAAGGCGGGCACTCATGCTCGGAATGATTGCCGACGGCACA
서열번호 1666	Tet-6	10	Tet-6_10	TAGCCGCCCGGCTCGGCGAAAGGCGGGCACTCATGCTCGGAATGATTGCCGACGGCACAG
서열번호 1667	Tet-6	11	Tet-6_11	AGCCGCCCGGCTCGGCGAAAGGCGGGCACTCATGCTCGGAATGATTGCCGACGGCACAGG
서열번호 1668	Tet-7	1	Tet-7_1	CCCTGTCCGTTTTCGGGATCGTACAGGTTCTCGTGCAGGCCCTCCTTACTGGCCGCATCG

서열번호 1669	Tet-7	2	Tet-7_2	CCTGTCCGTTTTCGGGATCGTACAGGTTCTCGTGCAGGCCCTCCTTACTGGCCG CATCGT
서열번호 1670	Tet-7	3	Tet-7_3	CTGTCCGTTTTCGGGATCGTACAGGTTCTCGTGCAGGCCCTCCTTACTGGCCGC ATCGTG
서열번호 1671	Tet-7	4	Tet-7_4	TGTCCGTTTTCGGGATCGTACAGGTTCTCGTGCAGGCCCTCCTTACTGGCCGCA TCGTGG
서열번호 1672	Tet-7	5	Tet-7_5	GTCCGTTTTCGGGATCGTACAGGTTCTCGTGCAGGCCCTCCTTACTGGCCGCAT CGTGGA
서열번호 1673	Tet-7	6	Tet-7_6	TCCGTTTTCGGGATCGTACAGGTTCTCGTGCAGGCCCTCCTTACTGGCCGCATC GTGGAG
서열번호 1674	Tet-7	7	Tet-7_7	CCGTTTTCGGGATCGTACAGGTTCTCGTGCAGGCCCTCCTTACTGGCCGCATCG TGGAGT
서열번호 1675	Tet-7	8	Tet-7_8	CGTTTTCGGGATCGTACAGGTTCTCGTGCAGGCCCTCCTTACTGGCCGCATCGT GGAGTG
서열번호 1676	Tet-7	9	Tet-7_9	GTTTTCGGGATCGTACAGGTTCTCGTGCAGGCCCTCCTTACTGGCCGCATCGTG GAGTGG
서열번호 1677	Tet-7	10	Tet-7_10	TTTTCGGGATCGTACAGGTTCTCGTGCAGGCCCTCCTTACTGGCCGCATCGTGG AGTGGA
서열번호 1678	Tet-7	11	Tet-7_11	TTTCGGGATCGTACAGGTTCTCGTGCAGGCCCTCCTTACTGGCCGCATCGTGGA GTGGAT
서열번호 1679	Tet-8	1	Tet-8_1	AAGAAACTCAAACCACAAAAATTTCGACTGAAATATCCGCATTAAATCAGGATA CAGCGC
서열번호 1680	Tet-8	2	Tet-8_2	AGAAACTCAAACCACAAAAATTTCGACTGAAATATCCGCATTAAATCAGGATAC AGCGCC
서열번호 1681	Tet-8	3	Tet-8_3	GAAACTCAAACCACAAAAATTTCGACTGAAATATCCGCATTAAATCAGGATACA GCGCCT
서열번호 1682	Tet-8	4	Tet-8_4	AAACTCAAACCACAAAAATTTCGACTGAAATATCCGCATTAAATCAGGATACAG CGCCTC
서열번호 1683	Tet-8	5	Tet-8_5	AACTCAAACCACAAAAATTTCGACTGAAATATCCGCATTAAATCAGGATACAGC GCCTCA
서열번호 1684	Tet-8	6	Tet-8_6	ACTCAAACCACAAAAATTTCGACTGAAATATCCGCATTAAATCAGGATACAGCG CCTCAC
서열번호 1685	Tet-8	7	Tet-8_7	CTCAAACCACAAAAATTTCGACTGAAATATCCGCATTAAATCAGGATACAGCGC CTCACT
서열번호 1686	Tet-8	8	Tet-8_8	TCAAACCACAAAAATTTCGACTGAAATATCCGCATTAAATCAGGATACAGCGCC TCACTC
서열번호 1687	Tet-8	9	Tet-8_9	CAAACCACAAAAATTTCGACTGAAATATCCGCATTAAATCAGGATACAGCGCCT CACTCT
서열번호 1688	Tet-8	10	Tet-8_10	AAACCACAAAAATTTCGACTGAAATATCCGCATTAAATCAGGATACAGCGCCTC ACTCTA
서열번호 1689	Tet-8	11	Tet-8_11	AACCACAAAAATTTCGACTGAAATATCCGCATTAAATCAGGATACAGCGCCTCA CTCTAC
서열번호 1690	Tet-9	1	Tet-9_1	CGTTTTGGATGGAATAGCATGATGGTTGGCTTTTCATTAGCGGGTCTTGGTCTT TTACAC
서열번호 1691	Tet-9	2	Tet-9_2	GTTTTGGATGGAATAGCATGATGGTTGGCTTTTCATTAGCGGGTCTTGGTCTTT TACACT
서열번호 1692	Tet-9	3	Tet-9_3	TTTTGGATGGAATAGCATGATGGTTGGCTTTTCATTAGCGGGTCTTGGTCTTTT ACACTC
서열번호 1693	Tet-9	4	Tet-9_4	TTTGGATGGAATAGCATGATGGTTGGCTTTTCATTAGCGGGTCTTGGTCTTTTA CACTCA
서열번호 1694	Tet-9	5	Tet-9_5	TTGGATGGAATAGCATGATGGTTGGCTTTTCATTAGCGGGTCTTGGTCTTTTAC ACTCAG
서열번호 1695	Tet-9	6	Tet-9_6	TGGATGGAATAGCATGATGGTTGGCTTTTCATTAGCGGGTCTTGGTCTTTTACA CTCAGT
서열번호 1696	Tet-9	7	Tet-9_7	GGATGGAATAGCATGATGGTTGGCTTTTCATTAGCGGGTCTTGGTCTTTTACAC TCAGTA
서열번호 1697	Tet-9	8	Tet-9_8	GATGGAATAGCATGATGGTTGGCTTTTCATTAGCGGGTCTTGGTCTTTTACACT CAGTAT
서열번호 1698	Tet-9	9	Tet-9_9	ATGGAATAGCATGATGGTTGGCTTTTCATTAGCGGGTCTTGGTCTTTTACACTC AGTATT
서열번호 1699	Tet-9	10	Tet-9_10	TGGAATAGCATGATGGTTGGCTTTTCATTAGCGGGTCTTGGTCTTTTACACTCA GTATTC
서열번호 1700	Tet-9	11	Tet-9_11	GGAATAGCATGATGGTTGGCTTTTCATTAGCGGGTCTTGGTCTTTTACACTCAG TATTCC

서열번호 1701	Tet-10	1	Tet-10_1	AAGAGCTTGCCGATAAAAAAGGCCAATTTATTGCTATTTACCGCGGCTTTTTATTGAGCT
서열번호 1702	Tet-10	2	Tet-10_2	AGAGCTTGCCGATAAAAAAGGCCAATTTATTGCTATTTACCGCGGCTTTTTATTGAGCTT
서열번호 1703	Tet-10	3	Tet-10_3	GAGCTTGCCGATAAAAAAGGCCAATTTATTGCTATTTACCGCGGCTTTTTATTGAGCTTG
서열번호 1704	Tet-10	4	Tet-10_4	AGCTTGCCGATAAAAAAGGCCAATTTATTGCTATTTACCGCGGCTTTTTATTGAGCTTGA
서열번호 1705	Tet-10	5	Tet-10_5	GCTTGCCGATAAAAAAGGCCAATTTATTGCTATTTACCGCGGCTTTTTATTGAGCTTGAA
서열번호 1706	Tet-10	6	Tet-10_6	CTTGCCGATAAAAAAGGCCAATTTATTGCTATTTACCGCGGCTTTTTATTGAGCTTGAAA
서열번호 1707	Tet-10	7	Tet-10_7	TTGCCGATAAAAAAGGCCAATTTATTGCTATTTACCGCGGCTTTTTATTGAGCTTGAAAG
서열번호 1708	Tet-10	8	Tet-10_8	TGCCGATAAAAAAGGCCAATTTATTGCTATTTACCGCGGCTTTTTATTGAGCTTGAAAGA
서열번호 1709	Tet-10	9	Tet-10_9	GCCGATAAAAAAGGCCAATTTATTGCTATTTACCGCGGCTTTTTATTGAGCTTGAAAGAT
서열번호 1710	Tet-10	10	Tet-10_10	CCGATAAAAAAGGCCAATTTATTGCTATTTACCGCGGCTTTTTATTGAGCTTGAAAGATA
서열번호 1711	Tet-10	11	Tet-10_11	CGATAAAAAAGGCCAATTTATTGCTATTTACCGCGGCTTTTTATTGAGCTTGAAAGATAA
서열번호 1712	Tet-11	1	Tet-11_1	AGAAGCAGGCCATTATCGCCGGCATGGCGGCCGACGCGCTGGGCTACGTCTTGCTGGCGT
서열번호 1713	Tet-11	2	Tet-11_2	GAAGCAGGCCATTATCGCCGGCATGGCGGCCGACGCGCTGGGCTACGTCTTGCTGGCGTT
서열번호 1714	Tet-11	3	Tet-11_3	AAGCAGGCCATTATCGCCGGCATGGCGGCCGACGCGCTGGGCTACGTCTTGCTGGCGTTC
서열번호 1715	Tet-11	4	Tet-11_4	AGCAGGCCATTATCGCCGGCATGGCGGCCGACGCGCTGGGCTACGTCTTGCTGGCGTTCG
서열번호 1716	Tet-11	5	Tet-11_5	GCAGGCCATTATCGCCGGCATGGCGGCCGACGCGCTGGGCTACGTCTTGCTGGCGTTCGC
서열번호 1717	Tet-11	6	Tet-11_6	CAGGCCATTATCGCCGGCATGGCGGCCGACGCGCTGGGCTACGTCTTGCTGGCGTTCGCG
서열번호 1718	Tet-11	7	Tet-11_7	AGGCCATTATCGCCGGCATGGCGGCCGACGCGCTGGGCTACGTCTTGCTGGCGTTCGCGA
서열번호 1719	Tet-11	8	Tet-11_8	GGCCATTATCGCCGGCATGGCGGCCGACGCGCTGGGCTACGTCTTGCTGGCGTTCGCGAC
서열번호 1720	Tet-11	9	Tet-11_9	GCCATTATCGCCGGCATGGCGGCCGACGCGCTGGGCTACGTCTTGCTGGCGTTCGCGACG
서열번호 1721	Tet-11	10	Tet-11_10	CCATTATCGCCGGCATGGCGGCCGACGCGCTGGGCTACGTCTTGCTGGCGTTCGCGACGC
서열번호 1722	Tet-11	11	Tet-11_11	CATTATCGCCGGCATGGCGGCCGACGCGCTGGGCTACGTCTTGCTGGCGTTCGCGACGCG
서열번호 1723	Tet-12	1	Tet-12_1	ATCGGGCAGATCCCGGCCACTGTCTGGGTATTGTTTACGGAGAGCCGCTTTGCCTGGGAC
서열번호 1724	Tet-12	2	Tet-12_2	TCGGGCAGATCCCGGCCACTGTCTGGGTATTGTTTACGGAGAGCCGCTTTGCCTGGGACA
서열번호 1725	Tet-12	3	Tet-12_3	CGGGCAGATCCCGGCCACTGTCTGGGTATTGTTTACGGAGAGCCGCTTTGCCTGGGACAG
서열번호 1726	Tet-12	4	Tet-12_4	GGGCAGATCCCGGCCACTGTCTGGGTATTGTTTACGGAGAGCCGCTTTGCCTGGGACAGC
서열번호 1727	Tet-12	5	Tet-12_5	GGCAGATCCCGGCCACTGTCTGGGTATTGTTTACGGAGAGCCGCTTTGCCTGGGACAGCG
서열번호 1728	Tet-12	6	Tet-12_6	GCAGATCCCGGCCACTGTCTGGGTATTGTTTACGGAGAGCCGCTTTGCCTGGGACAGCGC
서열번호 1729	Tet-12	7	Tet-12_7	CAGATCCCGGCCACTGTCTGGGTATTGTTTACGGAGAGCCGCTTTGCCTGGGACAGCGCG
서열번호 1730	Tet-12	8	Tet-12_8	AGATCCCGGCCACTGTCTGGGTATTGTTTACGGAGAGCCGCTTTGCCTGGGACAGCGCGG
서열번호 1731	Tet-12	9	Tet-12_9	GATCCCGGCCACTGTCTGGGTATTGTTTACGGAGAGCCGCTTTGCCTGGGACAGCGCGGC
서열번호 1732	Tet-12	10	Tet-12_10	ATCCCGGCCACTGTCTGGGTATTGTTTACGGAGAGCCGCTTTGCCTGGGACAGCGCGGCG

서열번호 1733	Tet-12	11	Tet-12_11	TCCCGGCCACTGTCTGGGTATTGTTTACGGAGAGCCGCTTTGCCTGGGACAGCG CGGCGG
서열번호 1734	Tet-13	1	Tet-13_1	TACTGCTTGATGATGTGGCGAATAAAGCGGGTTATACCAAGTGGTATTTTCAGC GGCTGT
서열번호 1735	Tet-13	2	Tet-13_2	ACTGCTTGATGATGTGGCGAATAAAGCGGGTTATACCAAGTGGTATTTTCAGCG GCTGTT
서열번호 1736	Tet-13	3	Tet-13_3	CTGCTTGATGATGTGGCGAATAAAGCGGGTTATACCAAGTGGTATTTTCAGCGG CTGTTC
서열번호 1737	Tet-13	4	Tet-13_4	TGCTTGATGATGTGGCGAATAAAGCGGGTTATACCAAGTGGTATTTTCAGCGGC TGTTCA
서열번호 1738	Tet-13	5	Tet-13_5	GCTTGATGATGTGGCGAATAAAGCGGGTTATACCAAGTGGTATTTTCAGCGGCT GTTCAA
서열번호 1739	Tet-13	6	Tet-13_6	CTTGATGATGTGGCGAATAAAGCGGGTTATACCAAGTGGTATTTTCAGCGGCTG TTCAAA
서열번호 1740	Tet-13	7	Tet-13_7	TTGATGATGTGGCGAATAAAGCGGGTTATACCAAGTGGTATTTTCAGCGGCTGT TCAAAA
서열번호 1741	Tet-13	8	Tet-13_8	TGATGATGTGGCGAATAAAGCGGGTTATACCAAGTGGTATTTTCAGCGGCTGTT CAAAAA
서열번호 1742	Tet-13	9	Tet-13_9	GATGATGTGGCGAATAAAGCGGGTTATACCAAGTGGTATTTTCAGCGGCTGTTC AAAAAA
서열번호 1743	Tet-13	10	Tet-13_10	ATGATGTGGCGAATAAAGCGGGTTATACCAAGTGGTATTTTCAGCGGCTGTTCA AAAAAG
서열번호 1744	Tet-13	11	Tet-13_11	TGATGTGGCGAATAAAGCGGGTTATACCAAGTGGTATTTTCAGCGGCTGTTCAA AAAAGT
서열번호 1745	Tet-14	1	Tet-14_1	TACTGAGGTTTTTCCATCCAGGTAGGGTAATCCACCCGATAAATAAGAGCGATG TACAGC
서열번호 1746	Tet-14	2	Tet-14_2	ACTGAGGTTTTTCCATCCAGGTAGGGTAATCCACCCGATAAATAAGAGCGATGT ACAGCA
서열번호 1747	Tet-14	3	Tet-14_3	CTGAGGTTTTTCCATCCAGGTAGGGTAATCCACCCGATAAATAAGAGCGATGTA CAGCAG
서열번호 1748	Tet-14	4	Tet-14_4	TGAGGTTTTTCCATCCAGGTAGGGTAATCCACCCGATAAATAAGAGCGATGTAC AGCAGA
서열번호 1749	Tet-14	5	Tet-14_5	GAGGTTTTTCCATCCAGGTAGGGTAATCCACCCGATAAATAAGAGCGATGTACA GCAGAG
서열번호 1750	Tet-14	6	Tet-14_6	AGGTTTTTCCATCCAGGTAGGGTAATCCACCCGATAAATAAGAGCGATGTACAG CAGAGA
서열번호 1751	Tet-14	7	Tet-14_7	GGTTTTTCCATCCAGGTAGGGTAATCCACCCGATAAATAAGAGCGATGTACAGC AGAGAA
서열번호 1752	Tet-14	8	Tet-14_8	GTTTTTCCATCCAGGTAGGGTAATCCACCCGATAAATAAGAGCGATGTACAGCA GAGAAT
서열번호 1753	Tet-14	9	Tet-14_9	TTTTTCCATCCAGGTAGGGTAATCCACCCGATAAATAAGAGCGATGTACAGCAG AGAATT
서열번호 1754	Tet-14	10	Tet-14_10	TTTTCCATCCAGGTAGGGTAATCCACCCGATAAATAAGAGCGATGTACAGCAGA GAATTT
서열번호 1755	Tet-14	11	Tet-14_11	TTTCCATCCAGGTAGGGTAATCCACCCGATAAATAAGAGCGATGTACAGCAGAG AATTTG
서열번호 1756	Tet-15	1	Tet-15_1	TACTGAGGTTTTTCTATCCCGGCAGGGCAGTCCACCCGAAAAATCAGAGCAATT CACAGC
서열번호 1757	Tet-15	2	Tet-15_2	ACTGAGGTTTTTCTATCCCGGCAGGGCAGTCCACCCGAAAAATCAGAGCAATTC ACAGCC
서열번호 1758	Tet-15	3	Tet-15_3	CTGAGGTTTTTCTATCCCGGCAGGGCAGTCCACCCGAAAAATCAGAGCAATTCA CAGCCA
서열번호 1759	Tet-15	4	Tet-15_4	TGAGGTTTTTCTATCCCGGCAGGGCAGTCCACCCGAAAAATCAGAGCAATTCAC AGCCAT
서열번호 1760	Tet-15	5	Tet-15_5	GAGGTTTTTCTATCCCGGCAGGGCAGTCCACCCGAAAAATCAGAGCAATTCACA GCCATT
서열번호 1761	Tet-15	6	Tet-15_6	AGGTTTTTCTATCCCGGCAGGGCAGTCCACCCGAAAAATCAGAGCAATTCACAG CCATTT
서열번호 1762	Tet-15	7	Tet-15_7	GGTTTTTCTATCCCGGCAGGGCAGTCCACCCGAAAAATCAGAGCAATTCACAGC CATTTC
서열번호 1763	Tet-15	8	Tet-15_8	GTTTTTCTATCCCGGCAGGGCAGTCCACCCGAAAAATCAGAGCAATTCACAGCC ATTTCT
서열번호 1764	Tet-15	9	Tet-15_9	TTTTTCTATCCCGGCAGGGCAGTCCACCCGAAAAATCAGAGCAATTCACAGCCA TTTCTT

서열번호 1765	Tet-15	10	Tet-15_10	TTTTCTATCCCGGCAGGGCAGTCCACCCGAAAAATCAGAGCAATTCACAGCCATTTCTTT
서열번호 1766	Tet-15	11	Tet-15_11	TTTCTATCCCGGCAGGGCAGTCCACCCGAAAAATCAGAGCAATTCACAGCCATTTCTTTA
서열번호 1767	Tet-16	1	Tet-16_1	AGGAGACTCATCACAGCCATGGCGGGACCGGAAAGCCGGTTCGCATCAAACCATTCGTTC
서열번호 1768	Tet-16	2	Tet-16_2	GGAGACTCATCACAGCCATGGCGGGACCGGAAAGCCGGTTCGCATCAAACCATTCGTTCT
서열번호 1769	Tet-16	3	Tet-16_3	GAGACTCATCACAGCCATGGCGGGACCGGAAAGCCGGTTCGCATCAAACCATTCGTTCTG
서열번호 1770	Tet-16	4	Tet-16_4	AGACTCATCACAGCCATGGCGGGACCGGAAAGCCGGTTCGCATCAAACCATTCGTTCTGT
서열번호 1771	Tet-16	5	Tet-16_5	GACTCATCACAGCCATGGCGGGACCGGAAAGCCGGTTCGCATCAAACCATTCGTTCTGTT
서열번호 1772	Tet-16	6	Tet-16_6	ACTCATCACAGCCATGGCGGGACCGGAAAGCCGGTTCGCATCAAACCATTCGTTCTGTTA
서열번호 1773	Tet-16	7	Tet-16_7	CTCATCACAGCCATGGCGGGACCGGAAAGCCGGTTCGCATCAAACCATTCGTTCTGTTAC
서열번호 1774	Tet-16	8	Tet-16_8	TCATCACAGCCATGGCGGGACCGGAAAGCCGGTTCGCATCAAACCATTCGTTCTGTTACG
서열번호 1775	Tet-16	9	Tet-16_9	CATCACAGCCATGGCGGGACCGGAAAGCCGGTTCGCATCAAACCATTCGTTCTGTTACGG
서열번호 1776	Tet-16	10	Tet-16_10	ATCACAGCCATGGCGGGACCGGAAAGCCGGTTCGCATCAAACCATTCGTTCTGTTACGGC
서열번호 1777	Tet-16	11	Tet-16_11	TCACAGCCATGGCGGGACCGGAAAGCCGGTTCGCATCAAACCATTCGTTCTGTTACGGCT
서열번호 1778	Tet-17	1	Tet-17_1	GGGAGACCCGTCGCGGTCATGGCAAGACCGGAAAGCCGGTTCGTATCCAACCATTGTTC
서열번호 1779	Tet-17	2	Tet-17_2	GGAGACCCGTCGCGGTCATGGCAAGACCGGAAAGCCGGTTCGTATCCAACCATTTGTTCT
서열번호 1780	Tet-17	3	Tet-17_3	GAGACCCGTCGCGGTCATGGCAAGACCGGAAAGCCGGTTCGTATCCAACCATTTGTTCTA
서열번호 1781	Tet-17	4	Tet-17_4	AGACCCGTCGCGGTCATGGCAAGACCGGAAAGCCGGTTCGTATCCAACCATTTGTTCTAT
서열번호 1782	Tet-17	5	Tet-17_5	GACCCGTCGCGGTCATGGCAAGACCGGAAAGCCGGTTCGTATCCAACCATTTGTTCTATT
서열번호 1783	Tet-17	6	Tet-17_6	ACCCGTCGCGGTCATGGCAAGACCGGAAAGCCGGTTCGTATCCAACCATTTGTTCTATTC
서열번호 1784	Tet-17	7	Tet-17_7	CCCGTCGCGGTCATGGCAAGACCGGAAAGCCGGTTCGTATCCAACCATTTGTTCTATTCC
서열번호 1785	Tet-17	8	Tet-17_8	CCGTCGCGGTCATGGCAAGACCGGAAAGCCGGTTCGTATCCAACCATTTGTTCTATTCCG
서열번호 1786	Tet-17	9	Tet-17_9	CGTCGCGGTCATGGCAAGACCGGAAAGCCGGTTCGTATCCAACCATTTGTTCTATTCCGG
서열번호 1787	Tet-17	10	Tet-17_10	GTCGCGGTCATGGCAAGACCGGAAAGCCGGTTCGTATCCAACCATTTGTTCTATTCCGGC
서열번호 1788	Tet-17	11	Tet-17_11	TCGCGGTCATGGCAAGACCGGAAAGCCGGTTCGTATCCAACCATTTGTTCTATTCCGGCT
서열번호 1789	Tet-18	1	Tet-18_1	GAGAAACACAAAAAAGAGAAGCGCTTGTTGCCAATAGGACACCTGAAAACCAAACTGCCT
서열번호 1790	Tet-18	2	Tet-18_2	AGAAACACAAAAAAGAGAAGCGCTTGTTGCCAATAGGACACCTGAAAACCAAACTGCCTC
서열번호 1791	Tet-18	3	Tet-18_3	GAAACACAAAAAAGAGAAGCGCTTGTTGCCAATAGGACACCTGAAAACCAAACTGCCTCA
서열번호 1792	Tet-18	4	Tet-18_4	AAACACAAAAAAGAGAAGCGCTTGTTGCCAATAGGACACCTGAAAACCAAACTGCCTCAA
서열번호 1793	Tet-18	5	Tet-18_5	AACACAAAAAAGAGAAGCGCTTGTTGCCAATAGGACACCTGAAAACCAAACTGCCTCAAA
서열번호 1794	Tet-18	6	Tet-18_6	ACACAAAAAAGAGAAGCGCTTGTTGCCAATAGGACACCTGAAAACCAAACTGCCTCAAAT
서열번호 1795	Tet-18	7	Tet-18_7	CACAAAAAAGAGAAGCGCTTGTTGCCAATAGGACACCTGAAAACCAAACTGCCTCAAATA
서열번호 1796	Tet-18	8	Tet-18_8	ACAAAAAAGAGAAGCGCTTGTTGCCAATAGGACACCTGAAAACCAAACTGCCTCAAATAC

서열번호 1797	Tet-18	9	Tet-18_9	CAAAAAAGAGAAGCGCTTGTTGCCAATAGGACACCTGAAAACCAAACTGCCTCAAATACA
서열번호 1798	Tet-18	10	Tet-18_10	AAAAAAGAGAAGCGCTTGTTGCCAATAGGACACCTGAAAACCAAACTGCCTCAAATACAG
서열번호 1799	Tet-18	11	Tet-18_11	AAAAAGAGAAGCGCTTGTTGCCAATAGGACACCTGAAAACCAAACTGCCTCAAATACAGT
서열번호 1800	Tet-19	1	Tet-19_1	TTCACTGATTATGGTGGTTGTAGCTAGAAATATTACAAGAAAAAAACAAGGCAAAGCCTT
서열번호 1801	Tet-19	2	Tet-19_2	TCACTGATTATGGTGGTTGTAGCTAGAAATATTACAAGAAAAAAACAAGGCAAAGCCTTT
서열번호 1802	Tet-19	3	Tet-19_3	CACTGATTATGGTGGTTGTAGCTAGAAATATTACAAGAAAAAAACAAGGCAAAGCCTTTG
서열번호 1803	Tet-19	4	Tet-19_4	ACTGATTATGGTGGTTGTAGCTAGAAATATTACAAGAAAAAAACAAGGCAAAGCCTTTGG
서열번호 1804	Tet-19	5	Tet-19_5	CTGATTATGGTGGTTGTAGCTAGAAATATTACAAGAAAAAAACAAGGCAAAGCCTTTGGT
서열번호 1805	Tet-19	6	Tet-19_6	TGATTATGGTGGTTGTAGCTAGAAATATTACAAGAAAAAAACAAGGCAAAGCCTTTGGTT
서열번호 1806	Tet-19	7	Tet-19_7	GATTATGGTGGTTGTAGCTAGAAATATTACAAGAAAAAAACAAGGCAAAGCCTTTGGTTT
서열번호 1807	Tet-19	8	Tet-19_8	ATTATGGTGGTTGTAGCTAGAAATATTACAAGAAAAAAACAAGGCAAAGCCTTTGGTTTT
서열번호 1808	Tet-19	9	Tet-19_9	TTATGGTGGTTGTAGCTAGAAATATTACAAGAAAAAAACAAGGCAAAGCCTTTGGTTTTA
서열번호 1809	Tet-19	10	Tet-19_10	TATGGTGGTTGTAGCTAGAAATATTACAAGAAAAAAACAAGGCAAAGCCTTTGGTTTTAT
서열번호 1810	Tet-19	11	Tet-19_11	ATGGTGGTTGTAGCTAGAAATATTACAAGAAAAAAACAAGGCAAAGCCTTTGGTTTTATA

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서열번호	TargetID	BPStart	프로브 명칭	염기서열
서열번호 1811	Tet-20	1	Tet-20_1	AGCACTCGTAATGGTTGTAGTTGCGCGCTATATTCCAAAGGAAAATAGGGGTAAAGCATT
서열번호 1812	Tet-20	2	Tet-20_2	GCACTCGTAATGGTTGTAGTTGCGCGCTATATTCCAAAGGAAAATAGGGGTAAAGCATTT
서열번호 1813	Tet-20	3	Tet-20_3	CACTCGTAATGGTTGTAGTTGCGCGCTATATTCCAAAGGAAAATAGGGGTAAAGCATTTG
서열번호 1814	Tet-20	4	Tet-20_4	ACTCGTAATGGTTGTAGTTGCGCGCTATATTCCAAAGGAAAATAGGGGTAAAGCATTTGG
서열번호 1815	Tet-20	5	Tet-20_5	CTCGTAATGGTTGTAGTTGCGCGCTATATTCCAAAGGAAAATAGGGGTAAAGCATTTGGT
서열번호 1816	Tet-20	6	Tet-20_6	TCGTAATGGTTGTAGTTGCGCGCTATATTCCAAAGGAAAATAGGGGTAAAGCATTTGGTC
서열번호 1817	Tet-20	7	Tet-20_7	CGTAATGGTTGTAGTTGCGCGCTATATTCCAAAGGAAAATAGGGGTAAAGCATTTGGTCT
서열번호 1818	Tet-20	8	Tet-20_8	GTAATGGTTGTAGTTGCGCGCTATATTCCAAAGGAAAATAGGGGTAAAGCATTTGGTCTT
서열번호 1819	Tet-20	9	Tet-20_9	TAATGGTTGTAGTTGCGCGCTATATTCCAAAGGAAAATAGGGGTAAAGCATTTGGTCTTA
서열번호 1820	Tet-20	10	Tet-20_10	AATGGTTGTAGTTGCGCGCTATATTCCAAAGGAAAATAGGGGTAAAGCATTTGGTCTTAT
서열번호 1821	Tet-20	11	Tet-20_11	ATGGTTGTAGTTGCGCGCTATATTCCAAAGGAAAATAGGGGTAAAGCATTTGGTCTTATT
서열번호 1822	Tet-21	1	Tet-21_1	GCCACAGAGAAAAAAGATTGAAAATCCGCACCCTCTACTACGAACAACTGTTGAACCGAG
서열번호 1823	Tet-21	2	Tet-21_2	CCACAGAGAAAAAAGATTGAAAATCCGCACCCTCTACTACGAACAACTGTTGAACCGAGT
서열번호 1824	Tet-21	3	Tet-21_3	CACAGAGAAAAAAGATTGAAAATCCGCACCCTCTACTACGAACAACTGTTGAACCGAGTA
서열번호 1825	Tet-21	4	Tet-21_4	ACAGAGAAAAAAGATTGAAAATCCGCACCCTCTACTACGAACAACTGTTGAACCGAGTAA

서열번호 1826	Tet-21	5	Tet-21_5	CAGAGAAAAAAGATTGAAAATCCGCACCCTCTACTACGAACAACTGTTGAACCGAGTAAA
서열번호 1827	Tet-21	6	Tet-21_6	AGAGAAAAAAGATTGAAAATCCGCACCCTCTACTACGAACAACTGTTGAACCGAGTAAAC
서열번호 1828	Tet-21	7	Tet-21_7	GAGAAAAAAGATTGAAAATCCGCACCCTCTACTACGAACAACTGTTGAACCGAGTAAACC
서열번호 1829	Tet-21	8	Tet-21_8	AGAAAAAAGATTGAAAATCCGCACCCTCTACTACGAACAACTGTTGAACCGAGTAAACCT
서열번호 1830	Tet-21	9	Tet-21_9	GAAAAAAGATTGAAAATCCGCACCCTCTACTACGAACAACTGTTGAACCGAGTAAACCTG
서열번호 1831	Tet-21	10	Tet-21_10	AAAAAAGATTGAAAATCCGCACCCTCTACTACGAACAACTGTTGAACCGAGTAAACCTGA
서열번호 1832	Tet-21	11	Tet-21_11	AAAAAGATTGAAAATCCGCACCCTCTACTACGAACAACTGTTGAACCGAGTAAACCTGAA
서열번호 1833	Tet-22	1	Tet-22_1	GAGAGAATTGAAAATCCCCTCCCTCTGCTGCAAACGACTGTTGAACCGAGCAAACCTCAA
서열번호 1834	Tet-22	2	Tet-22_2	AGAGAATTGAAAATCCCCTCCCTCTGCTGCAAACGACTGTTGAACCGAGCAAACCTCAAC
서열번호 1835	Tet-22	3	Tet-22_3	GAGAATTGAAAATCCCCTCCCTCTGCTGCAAACGACTGTTGAACCGAGCAAACCTCAACA
서열번호 1836	Tet-22	4	Tet-22_4	AGAATTGAAAATCCCCTCCCTCTGCTGCAAACGACTGTTGAACCGAGCAAACCTCAACAA
서열번호 1837	Tet-22	5	Tet-22_5	GAATTGAAAATCCCCTCCCTCTGCTGCAAACGACTGTTGAACCGAGCAAACCTCAACAAA
서열번호 1838	Tet-22	6	Tet-22_6	AATTGAAAATCCCCTCCCTCTGCTGCAAACGACTGTTGAACCGAGCAAACCTCAACAAAG
서열번호 1839	Tet-22	7	Tet-22_7	ATTGAAAATCCCCTCCCTCTGCTGCAAACGACTGTTGAACCGAGCAAACCTCAACAAAGG
서열번호 1840	Tet-22	8	Tet-22_8	TTGAAAATCCCCTCCCTCTGCTGCAAACGACTGTTGAACCGAGCAAACCTCAACAAAGGG
서열번호 1841	Tet-22	9	Tet-22_9	TGAAAATCCCCTCCCTCTGCTGCAAACGACTGTTGAACCGAGCAAACCTCAACAAAGGGA
서열번호 1842	Tet-22	10	Tet-22_10	GAAAATCCCCTCCCTCTGCTGCAAACGACTGTTGAACCGAGCAAACCTCAACAAAGGGAA
서열번호 1843	Tet-22	11	Tet-22_11	AAAATCCCCTCCCTCTGCTGCAAACGACTGTTGAACCGAGCAAACCTCAACAAAGGGAAA
서열번호 1844	Tet-23	1	Tet-23_1	AGAACTATTAGAGCCATATCTCCACTTTGAAATTTATGCACCGCAGGAATATCTCTCACG
서열번호 1845	Tet-23	2	Tet-23_2	GAACTATTAGAGCCATATCTCCACTTTGAAATTTATGCACCGCAGGAATATCTCTCACGG
서열번호 1846	Tet-23	3	Tet-23_3	AACTATTAGAGCCATATCTCCACTTTGAAATTTATGCACCGCAGGAATATCTCTCACGGG
서열번호 1847	Tet-23	4	Tet-23_4	ACTATTAGAGCCATATCTCCACTTTGAAATTTATGCACCGCAGGAATATCTCTCACGGGC
서열번호 1848	Tet-23	5	Tet-23_5	CTATTAGAGCCATATCTCCACTTTGAAATTTATGCACCGCAGGAATATCTCTCACGGGCG
서열번호 1849	Tet-23	6	Tet-23_6	TATTAGAGCCATATCTCCACTTTGAAATTTATGCACCGCAGGAATATCTCTCACGGGCGT
서열번호 1850	Tet-23	7	Tet-23_7	ATTAGAGCCATATCTCCACTTTGAAATTTATGCACCGCAGGAATATCTCTCACGGGCGTA
서열번호 1851	Tet-23	8	Tet-23_8	TTAGAGCCATATCTCCACTTTGAAATTTATGCACCGCAGGAATATCTCTCACGGGCGTAT
서열번호 1852	Tet-23	9	Tet-23_9	TAGAGCCATATCTCCACTTTGAAATTTATGCACCGCAGGAATATCTCTCACGGGCGTATC
서열번호 1853	Tet-23	10	Tet-23_10	AGAGCCATATCTCCACTTTGAAATTTATGCACCGCAGGAATATCTCTCACGGGCGTATCA
서열번호 1854	Tet-23	11	Tet-23_11	GAGCCATATCTCCACTTTGAAATTTATGCACCGCAGGAATATCTCTCACGGGCGTATCAT
서열번호 1855	Tet-24	1	Tet-24_1	TGCGCATTTTTTACAAGATACTACACTTCCTAAACTTGGAAACCTTAGTTCAGTGACTTG
서열번호 1856	Tet-24	2	Tet-24_2	GCGCATTTTTTACAAGATACTACACTTCCTAAACTTGGAAACCTTAGTTCAGTGACTTGG
서열번호 1857	Tet-24	3	Tet-24_3	CGCATTTTTTACAAGATACTACACTTCCTAAACTTGGAAACCTTAGTTCAGTGACTTGGT

서열번호 1858	Tet-24	4	Tet-24_4	GCATTTTTTACAAGATACTACACTTCCTAAACTTGGAAACCTTAGTTCAGTGACTTGGTT
서열번호 1859	Tet-24	5	Tet-24_5	CATTTTTTACAAGATACTACACTTCCTAAACTTGGAAACCTTAGTTCAGTGACTTGGTTT
서열번호 1860	Tet-24	6	Tet-24_6	ATTTTTTACAAGATACTACACTTCCTAAACTTGGAAACCTTAGTTCAGTGACTTGGTTTG
서열번호 1861	Tet-24	7	Tet-24_7	TTTTTTACAAGATACTACACTTCCTAAACTTGGAAACCTTAGTTCAGTGACTTGGTTTGG
서열번호 1862	Tet-24	8	Tet-24_8	TTTTTACAAGATACTACACTTCCTAAACTTGGAAACCTTAGTTCAGTGACTTGGTTTGGA
서열번호 1863	Tet-24	9	Tet-24_9	TTTTACAAGATACTACACTTCCTAAACTTGGAAACCTTAGTTCAGTGACTTGGTTTGGAA
서열번호 1864	Tet-24	10	Tet-24_10	TTTACAAGATACTACACTTCCTAAACTTGGAAACCTTAGTTCAGTGACTTGGTTTGGAAT
서열번호 1865	Tet-24	11	Tet-24_11	TTACAAGATACTACACTTCCTAAACTTGGAAACCTTAGTTCAGTGACTTGGTTTGGAATT
서열번호 1866	Tet-25	1	Tet-25_1	AAACTGATGTCTGAGATTGAAGACATCAGTTGTAATAATGAGTGGTGTCATATTAAAGGG
서열번호 1867	Tet-25	2	Tet-25_2	AACTGATGTCTGAGATTGAAGACATCAGTTGTAATAATGAGTGGTGTCATATTAAAGGGA
서열번호 1868	Tet-25	3	Tet-25_3	ACTGATGTCTGAGATTGAAGACATCAGTTGTAATAATGAGTGGTGTCATATTAAAGGGAA
서열번호 1869	Tet-25	4	Tet-25_4	CTGATGTCTGAGATTGAAGACATCAGTTGTAATAATGAGTGGTGTCATATTAAAGGGAAA
서열번호 1870	Tet-25	5	Tet-25_5	TGATGTCTGAGATTGAAGACATCAGTTGTAATAATGAGTGGTGTCATATTAAAGGGAAAG
서열번호 1871	Tet-25	6	Tet-25_6	GATGTCTGAGATTGAAGACATCAGTTGTAATAATGAGTGGTGTCATATTAAAGGGAAAGT
서열번호 1872	Tet-25	7	Tet-25_7	ATGTCTGAGATTGAAGACATCAGTTGTAATAATGAGTGGTGTCATATTAAAGGGAAAGTT
서열번호 1873	Tet-25	8	Tet-25_8	TGTCTGAGATTGAAGACATCAGTTGTAATAATGAGTGGTGTCATATTAAAGGGAAAGTTC
서열번호 1874	Tet-25	9	Tet-25_9	GTCTGAGATTGAAGACATCAGTTGTAATAATGAGTGGTGTCATATTAAAGGGAAAGTTCC
서열번호 1875	Tet-25	10	Tet-25_10	TCTGAGATTGAAGACATCAGTTGTAATAATGAGTGGTGTCATATTAAAGGGAAAGTTCCA
서열번호 1876	Tet-25	11	Tet-25_11	CTGAGATTGAAGACATCAGTTGTAATAATGAGTGGTGTCATATTAAAGGGAAAGTTCCAT
서열번호 1877	Tet-26	1	Tet-26_1	AGAATTACGCCAGATAGATAAGGCAGAGCCTGGTGAGATTATTATTTTAAAAAATGAGCT
서열번호 1878	Tet-26	2	Tet-26_2	GAATTACGCCAGATAGATAAGGCAGAGCCTGGTGAGATTATTATTTTAAAAAATGAGCTT
서열번호 1879	Tet-26	3	Tet-26_3	AATTACGCCAGATAGATAAGGCAGAGCCTGGTGAGATTATTATTTTAAAAAATGAGCTTT
서열번호 1880	Tet-26	4	Tet-26_4	ATTACGCCAGATAGATAAGGCAGAGCCTGGTGAGATTATTATTTTAAAAAATGAGCTTTT
서열번호 1881	Tet-26	5	Tet-26_5	TTACGCCAGATAGATAAGGCAGAGCCTGGTGAGATTATTATTTTAAAAAATGAGCTTTTA
서열번호 1882	Tet-26	6	Tet-26_6	TACGCCAGATAGATAAGGCAGAGCCTGGTGAGATTATTATTTTAAAAAATGAGCTTTTAA
서열번호 1883	Tet-26	7	Tet-26_7	ACGCCAGATAGATAAGGCAGAGCCTGGTGAGATTATTATTTTAAAAAATGAGCTTTTAAA
서열번호 1884	Tet-26	8	Tet-26_8	CGCCAGATAGATAAGGCAGAGCCTGGTGAGATTATTATTTTAAAAAATGAGCTTTTAAAA
서열번호 1885	Tet-26	9	Tet-26_9	GCCAGATAGATAAGGCAGAGCCTGGTGAGATTATTATTTTAAAAAATGAGCTTTTAAAAC
서열번호 1886	Tet-26	10	Tet-26_10	CCAGATAGATAAGGCAGAGCCTGGTGAGATTATTATTTTAAAAAATGAGCTTTTAAAACT
서열번호 1887	Tet-26	11	Tet-26_11	CAGATAGATAAGGCAGAGCCTGGTGAGATTATTATTTTAAAAAATGAGCTTTTAAAACTA
서열번호 1888	Tet-27	1	Tet-27_1	GCGAACTCTGAAAGTGTTAGATGGAGCTATTTTAGTAATTTCAGCAAAAGAAGGAATTCA
서열번호 1889	Tet-27	2	Tet-27_2	CGAACTCTGAAAGTGTTAGATGGAGCTATTTTAGTAATTTCAGCAAAAGAAGGAATTCAA

서열번호 1890	Tet-27	3	Tet-27_3	GAACTCTGAAAGTGTTAGATGGAGCTATTTTAGTAATTTCAGCAAAAGAAGGAATTCAAG
서열번호 1891	Tet-27	4	Tet-27_4	AACTCTGAAAGTGTTAGATGGAGCTATTTTAGTAATTTCAGCAAAAGAAGGAATTCAAGT
서열번호 1892	Tet-27	5	Tet-27_5	ACTCTGAAAGTGTTAGATGGAGCTATTTTAGTAATTTCAGCAAAAGAAGGAATTCAAGTC
서열번호 1893	Tet-27	6	Tet-27_6	CTCTGAAAGTGTTAGATGGAGCTATTTTAGTAATTTCAGCAAAAGAAGGAATTCAAGTCC
서열번호 1894	Tet-27	7	Tet-27_7	TCTGAAAGTGTTAGATGGAGCTATTTTAGTAATTTCAGCAAAAGAAGGAATTCAAGTCCA
서열번호 1895	Tet-27	8	Tet-27_8	CTGAAAGTGTTAGATGGAGCTATTTTAGTAATTTCAGCAAAAGAAGGAATTCAAGTCCAA
서열번호 1896	Tet-27	9	Tet-27_9	TGAAAGTGTTAGATGGAGCTATTTTAGTAATTTCAGCAAAAGAAGGAATTCAAGTCCAAA
서열번호 1897	Tet-27	10	Tet-27_10	GAAAGTGTTAGATGGAGCTATTTTAGTAATTTCAGCAAAAGAAGGAATTCAAGTCCAAAC
서열번호 1898	Tet-27	11	Tet-27_11	GAAAGTGTTAGATGGAGCTATTTTAGTAATTTCAGCAAAAGAAGGAATTCAAGTCCAAAC
서열번호 1899	Tet-28	1	Tet-28_1	ACGGCGCCCGCGCCTACGGTTTCATCCTGGCGTTCTTCGGTATCGGCAGTGCGATGGGCG
서열번호 1900	Tet-28	2	Tet-28_2	CGGCGCCCGCGCCTACGGTTTCATCCTGGCGTTCTTCGGTATCGGCAGTGCGATGGGCGC
서열번호 1901	Tet-28	3	Tet-28_3	GGCGCCCGCGCCTACGGTTTCATCCTGGCGTTCTTCGGTATCGGCAGTGCGATGGGCGCG
서열번호 1902	Tet-28	4	Tet-28_4	GCGCCCGCGCCTACGGTTTCATCCTGGCGTTCTTCGGTATCGGCAGTGCGATGGGCGCGC
서열번호 1903	Tet-28	5	Tet-28_5	CGCCCGCGCCTACGGTTTCATCCTGGCGTTCTTCGGTATCGGCAGTGCGATGGGCGCGCT
서열번호 1904	Tet-28	6	Tet-28_6	GCCCGCGCCTACGGTTTCATCCTGGCGTTCTTCGGTATCGGCAGTGCGATGGGCGCGCTG
서열번호 1905	Tet-28	7	Tet-28_7	CCCGCGCCTACGGTTTCATCCTGGCGTTCTTCGGTATCGGCAGTGCGATGGGCGCGCTGA
서열번호 1906	Tet-28	8	Tet-28_8	CCGCGCCTACGGTTTCATCCTGGCGTTCTTCGGTATCGGCAGTGCGATGGGCGCGCTGAC
서열번호 1907	Tet-28	9	Tet-28_9	CGCGCCTACGGTTTCATCCTGGCGTTCTTCGGTATCGGCAGTGCGATGGGCGCGCTGACG
서열번호 1908	Tet-28	10	Tet-28_10	GCGCCTACGGTTTCATCCTGGCGTTCTTCGGTATCGGCAGTGCGATGGGCGCGCTGACGG
서열번호 1909	Tet-28	11	Tet-28_11	CGCCTACGGTTTCATCCTGGCGTTCTTCGGTATCGGCAGTGCGATGGGCGCGCTGACGGT
서열번호 1910	Tet-29	1	Tet-29_1	CGAAAATAACGATGAATTATTGGAAAAGTATATCGCAGGAGAACCAATCAGCCGGGAAAA
서열번호 1911	Tet-29	2	Tet-29_2	GAAAATAACGATGAATTATTGGAAAAGTATATCGCAGGAGAACCAATCAGCCGGGAAAAA
서열번호 1912	Tet-29	3	Tet-29_3	AAAATAACGATGAATTATTGGAAAAGTATATCGCAGGAGAACCAATCAGCCGGGAAAAAC
서열번호 1913	Tet-29	4	Tet-29_4	AAATAACGATGAATTATTGGAAAAGTATATCGCAGGAGAACCAATCAGCCGGGAAAAACT
서열번호 1914	Tet-29	5	Tet-29_5	AATAACGATGAATTATTGGAAAAGTATATCGCAGGAGAACCAATCAGCCGGGAAAAACTT
서열번호 1915	Tet-29	6	Tet-29_6	ATAACGATGAATTATTGGAAAAGTATATCGCAGGAGAACCAATCAGCCGGGAAAAACTTG
서열번호 1916	Tet-29	7	Tet-29_7	TAACGATGAATTATTGGAAAAGTATATCGCAGGAGAACCAATCAGCCGGGAAAAACTTGC
서열번호 1917	Tet-29	8	Tet-29_8	AACGATGAATTATTGGAAAAGTATATCGCAGGAGAACCAATCAGCCGGGAAAAACTTGCG
서열번호 1918	Tet-29	9	Tet-29_9	ACGATGAATTATTGGAAAAGTATATCGCAGGAGAACCAATCAGCCGGGAAAAACTTGCGC
서열번호 1919	Tet-29	10	Tet-29_10	CGATGAATTATTGGAAAAGTATATCGCAGGAGAACCAATCAGCCGGGAAAAACTTGCGCG
서열번호 1920	Tet-29	11	Tet-29_11	GATGAATTATTGGAAAAGTATATCGCAGGAGAACCAATCAGCCGGGAAAAACTTGCGCGG
서열번호 1921	Tet-30	1	Tet-30_1	ATTTACTTAGTGATAAGAACGTTGCAATAATTGGTGGTGGACCCGTTGGACTGACTATGG

서열번호 1922	Tet-30	2	Tet-30_2	TTTACTTAGTGATAAGAACGTTGCAATAATTGGTGGTGGACCCGTTGGACTGACTATGGC
서열번호 1923	Tet-30	3	Tet-30_3	TTACTTAGTGATAAGAACGTTGCAATAATTGGTGGTGGACCCGTTGGACTGACTATGGCA
서열번호 1924	Tet-30	4	Tet-30_4	TACTTAGTGATAAGAACGTTGCAATAATTGGTGGTGGACCCGTTGGACTGACTATGGCAA
서열번호 1925	Tet-30	5	Tet-30_5	ACTTAGTGATAAGAACGTTGCAATAATTGGTGGTGGACCCGTTGGACTGACTATGGCAAA
서열번호 1926	Tet-30	6	Tet-30_6	CTTAGTGATAAGAACGTTGCAATAATTGGTGGTGGACCCGTTGGACTGACTATGGCAAAA
서열번호 1927	Tet-30	7	Tet-30_7	TTAGTGATAAGAACGTTGCAATAATTGGTGGTGGACCCGTTGGACTGACTATGGCAAAAT
서열번호 1928	Tet-30	8	Tet-30_8	TAGTGATAAGAACGTTGCAATAATTGGTGGTGGACCCGTTGGACTGACTATGGCAAAATT
서열번호 1929	Tet-30	9	Tet-30_9	AGTGATAAGAACGTTGCAATAATTGGTGGTGGACCCGTTGGACTGACTATGGCAAAATTA
서열번호 1930	Tet-30	10	Tet-30_10	GTGATAAGAACGTTGCAATAATTGGTGGTGGACCCGTTGGACTGACTATGGCAAAATTAT
서열번호 1931	Tet-30	11	Tet-30_11	TGATAAGAACGTTGCAATAATTGGTGGTGGACCCGTTGGACTGACTATGGCAAAATTATT
서열번호 1932	Tet-31	1	Tet-31_1	CTTTACTAAAATATAAAAAAATTACAATAATTGGTGCCGGGCCTGTTGGATTAACAATGG
서열번호 1933	Tet-31	2	Tet-31_2	TTTACTAAAATATAAAAAAATTACAATAATTGGTGCCGGGCCTGTTGGATTAACAATGGC
서열번호 1934	Tet-31	3	Tet-31_3	TTACTAAAATATAAAAAAATTACAATAATTGGTGCCGGGCCTGTTGGATTAACAATGGCG
서열번호 1935	Tet-31	4	Tet-31_4	TACTAAAATATAAAAAAATTACAATAATTGGTGCCGGGCCTGTTGGATTAACAATGGCGA
서열번호 1936	Tet-31	5	Tet-31_5	ACTAAAATATAAAAAAATTACAATAATTGGTGCCGGGCCTGTTGGATTAACAATGGCGAG
서열번호 1937	Tet-31	6	Tet-31_6	CTAAAATATAAAAAAATTACAATAATTGGTGCCGGGCCTGTTGGATTAACAATGGCGAGA
서열번호 1938	Tet-31	7	Tet-31_7	TAAAATATAAAAAAATTACAATAATTGGTGCCGGGCCTGTTGGATTAACAATGGCGAGAT
서열번호 1939	Tet-31	8	Tet-31_8	AAAATATAAAAAAATTACAATAATTGGTGCCGGGCCTGTTGGATTAACAATGGCGAGATT
서열번호 1940	Tet-31	9	Tet-31_9	AAATATAAAAAAATTACAATAATTGGTGCCGGGCCTGTTGGATTAACAATGGCGAGATTG
서열번호 1941	Tet-31	10	Tet-31_10	AATATAAAAAAATTACAATAATTGGTGCCGGGCCTGTTGGATTAACAATGGCGAGATTGT
서열번호 1942	Tet-31	11	Tet-31_11	ATATAAAAAAATTACAATAATTGGTGCCGGGCCTGTTGGATTAACAATGGCGAGATTGTT
서열번호 1943	Tet-32	1	Tet-32_1	ATGTCAAAATCACTTATAACCGCACTCATTGTTGTCGCGCTTGATGCGATTGGTTTGGGA
서열번호 1944	Tet-32	2	Tet-32_2	TGTCAAAATCACTTATAACCGCACTCATTGTTGTCGCGCTTGATGCGATTGGTTTGGGAT
서열번호 1945	Tet-32	3	Tet-32_3	GTCAAAATCACTTATAACCGCACTCATTGTTGTCGCGCTTGATGCGATTGGTTTGGGATT
서열번호 1946	Tet-32	4	Tet-32_4	TCAAAATCACTTATAACCGCACTCATTGTTGTCGCGCTTGATGCGATTGGTTTGGGATTA
서열번호 1947	Tet-32	5	Tet-32_5	CAAAATCACTTATAACCGCACTCATTGTTGTCGCGCTTGATGCGATTGGTTTGGGATTAA
서열번호 1948	Tet-32	6	Tet-32_6	AAAATCACTTATAACCGCACTCATTGTTGTCGCGCTTGATGCGATTGGTTTGGGATTAAT
서열번호 1949	Tet-32	7	Tet-32_7	AAATCACTTATAACCGCACTCATTGTTGTCGCGCTTGATGCGATTGGTTTGGGATTAATC
서열번호 1950	Tet-32	8	Tet-32_8	AATCACTTATAACCGCACTCATTGTTGTCGCGCTTGATGCGATTGGTTTGGGATTAATCA
서열번호 1951	Tet-32	9	Tet-32_9	ATCACTTATAACCGCACTCATTGTTGTCGCGCTTGATGCGATTGGTTTGGGATTAATCAT
서열번호 1952	Tet-32	10	Tet-32_10	TCACTTATAACCGCACTCATTGTTGTCGCGCTTGATGCGATTGGTTTGGGATTAATCATG
서열번호 1953	Tet-32	11	Tet-32_11	CACTTATAACCGCACTCATTGTTGTCGCGCTTGATGCGATTGGTTTGGGATTAATCATGC

서열번호 1954	Trim-1	1	Trim-1_1	TTCGAGGTTGTCTCATCCGAAACCATTCAAGGCACAATCACGTACACGCACTCCGTCTAT
서열번호 1955	Trim-1	2	Trim-1_2	TCGAGGTTGTCTCATCCGAAACCATTCAAGGCACAATCACGTACACGCACTCCGTCTATG
서열번호 1956	Trim-1	3	Trim-1_3	CGAGGTTGTCTCATCCGAAACCATTCAAGGCACAATCACGTACACGCACTCCGTCTATGC
서열번호 1957	Trim-1	4	Trim-1_4	GAGGTTGTCTCATCCGAAACCATTCAAGGCACAATCACGTACACGCACTCCGTCTATGCG
서열번호 1958	Trim-1	5	Trim-1_5	AGGTTGTCTCATCCGAAACCATTCAAGGCACAATCACGTACACGCACTCCGTCTATGCGC
서열번호 1959	Trim-1	6	Trim-1_6	GGTTGTCTCATCCGAAACCATTCAAGGCACAATCACGTACACGCACTCCGTCTATGCGCG
서열번호 1960	Trim-1	7	Trim-1_7	GTTGTCTCATCCGAAACCATTCAAGGCACAATCACGTACACGCACTCCGTCTATGCGCGT
서열번호 1961	Trim-1	8	Trim-1_8	TTGTCTCATCCGAAACCATTCAAGGCACAATCACGTACACGCACTCCGTCTATGCGCGTC
서열번호 1962	Trim-1	9	Trim-1_9	TGTCTCATCCGAAACCATTCAAGGCACAATCACGTACACGCACTCCGTCTATGCGCGTCG
서열번호 1963	Trim-1	10	Trim-1_10	GTCTCATCCGAAACCATTCAAGGCACAATCACGTACACGCACTCCGTCTATGCGCGTCGT
서열번호 1964	Trim-1	11	Trim-1_11	TCTCATCCGAAACCATTCAAGGCACAATCACGTACACGCACTCCGTCTATGCGCGTCGTA
서열번호 1965	Trim-2	1	Trim-2_1	CGTCCAAGTTTTACATCTGACAATGAGAACGTAGTGATCTTTCCATCAATTAAAGATGCT
서열번호 1966	Trim-2	2	Trim-2_2	GTCCAAGTTTTACATCTGACAATGAGAACGTAGTGATCTTTCCATCAATTAAAGATGCTT
서열번호 1967	Trim-2	3	Trim-2_3	TCCAAGTTTTACATCTGACAATGAGAACGTAGTGATCTTTCCATCAATTAAAGATGCTTT
서열번호 1968	Trim-2	4	Trim-2_4	CCAAGTTTTACATCTGACAATGAGAACGTAGTGATCTTTCCATCAATTAAAGATGCTTTA
서열번호 1969	Trim-2	5	Trim-2_5	CAAGTTTTACATCTGACAATGAGAACGTAGTGATCTTTCCATCAATTAAAGATGCTTTAA
서열번호 1970	Trim-2	6	Trim-2_6	AAGTTTTACATCTGACAATGAGAACGTAGTGATCTTTCCATCAATTAAAGATGCTTTAAC
서열번호 1971	Trim-2	7	Trim-2_7	AGTTTTACATCTGACAATGAGAACGTAGTGATCTTTCCATCAATTAAAGATGCTTTAACC
서열번호 1972	Trim-2	8	Trim-2_8	GTTTTACATCTGACAATGAGAACGTAGTGATCTTTCCATCAATTAAAGATGCTTTAACCA
서열번호 1973	Trim-2	9	Trim-2_9	TTTTACATCTGACAATGAGAACGTAGTGATCTTTCCATCAATTAAAGATGCTTTAACCAA
서열번호 1974	Trim-2	10	Trim-2_10	TTTACATCTGACAATGAGAACGTAGTGATCTTTCCATCAATTAAAGATGCTTTAACCAAC
서열번호 1975	Trim-2	11	Trim-2_11	TTACATCTGACAATGAGAACGTAGTGATCTTTCCATCAATTAAAGATGCTTTAACCAACC
서열번호 1976	Trim-3	1	Trim-3_1	AACCAAGCTTCATTTCACCATGAAGGGGTAGATGTTATAAACTCTCTTGATGAAATTAAA
서열번호 1977	Trim-3	2	Trim-3_2	ACCAAGCTTCATTTCACCATGAAGGGGTAGATGTTATAAACTCTCTTGATGAAATTAAAG
서열번호 1978	Trim-3	3	Trim-3_3	CCAAGCTTCATTTCACCATGAAGGGGTAGATGTTATAAACTCTCTTGATGAAATTAAAGA
서열번호 1979	Trim-3	4	Trim-3_4	CAAGCTTCATTTCACCATGAAGGGGTAGATGTTATAAACTCTCTTGATGAAATTAAAGAG
서열번호 1980	Trim-3	5	Trim-3_5	AAGCTTCATTTCACCATGAAGGGGTAGATGTTATAAACTCTCTTGATGAAATTAAAGAGT
서열번호 1981	Trim-3	6	Trim-3_6	AGCTTCATTTCACCATGAAGGGGTAGATGTTATAAACTCTCTTGATGAAATTAAAGAGTT
서열번호 1982	Trim-3	7	Trim-3_7	GCTTCATTTCACCATGAAGGGGTAGATGTTATAAACTCTCTTGATGAAATTAAAGAGTTA
서열번호 1983	Trim-3	8	Trim-3_8	CTTCATTTCACCATGAAGGGGTAGATGTTATAAACTCTCTTGATGAAATTAAAGAGTTAT
서열번호 1984	Trim-3	9	Trim-3_9	TTCATTTCACCATGAAGGGGTAGATGTTATAAACTCTCTTGATGAAATTAAAGAGTTATC
서열번호 1985	Trim-3	10	Trim-3_10	TCATTTCACCATGAAGGGGTAGATGTTATAAACTCTCTTGATGAAATTAAAGAGTTATCT

서열번호 1986	Trim-3	11	Trim-3_11	CATTTCACCATGAAGGGGTAGATGTTATAAACTCTCTTGATGAAATTAAAGAGTTATCTG
서열번호 1987	Trim-4	1	Trim-4_1	TCTTTGCCAATGAATTAATTACCAGAGCATTCGGTAATCAAGGCAAATTACCTTGGCAAT
서열번호 1988	Trim-4	2	Trim-4_2	CTTTGCCAATGAATTAATTACCAGAGCATTCGGTAATCAAGGCAAATTACCTTGGCAATT
서열번호 1989	Trim-4	3	Trim-4_3	TTTGCCAATGAATTAATTACCAGAGCATTCGGTAATCAAGGCAAATTACCTTGGCAATTC
서열번호 1990	Trim-4	4	Trim-4_4	TTGCCAATGAATTAATTACCAGAGCATTCGGTAATCAAGGCAAATTACCTTGGCAATTCA
서열번호 1991	Trim-4	5	Trim-4_5	TGCCAATGAATTAATTACCAGAGCATTCGGTAATCAAGGCAAATTACCTTGGCAATTCAT
서열번호 1992	Trim-4	6	Trim-4_6	GCCAATGAATTAATTACCAGAGCATTCGGTAATCAAGGCAAATTACCTTGGCAATTCATT
서열번호 1993	Trim-4	7	Trim-4_7	CCAATGAATTAATTACCAGAGCATTCGGTAATCAAGGCAAATTACCTTGGCAATTCATTA
서열번호 1994	Trim-4	8	Trim-4_8	CAATGAATTAATTACCAGAGCATTCGGTAATCAAGGCAAATTACCTTGGCAATTCATTAA
서열번호 1995	Trim-4	9	Trim-4_9	AATGAATTAATTACCAGAGCATTCGGTAATCAAGGCAAATTACCTTGGCAATTCATTAAA
서열번호 1996	Trim-4	10	Trim-4_10	ATGAATTAATTACCAGAGCATTCGGTAATCAAGGCAAATTACCTTGGCAATTCATTAAAG
서열번호 1997	Trim-4	11	Trim-4_11	TGAATTAATTACCAGAGCATTCGGTAATCAAGGCAAATTACCTTGGCAATTCATTAAAGA
서열번호 1998	Trim-5	1	Trim-5_1	ACTCACTGAGGGAAAAGTCGTTGTCATGGGGCGAAAGACCTTTGAGTCTATCGGCAAGCC
서열번호 1999	Trim-5	2	Trim-5_2	CTCACTGAGGGAAAAGTCGTTGTCATGGGGCGAAAGACCTTTGAGTCTATCGGCAAGCCT
서열번호 2000	Trim-5	3	Trim-5_3	TCACTGAGGGAAAAGTCGTTGTCATGGGGCGAAAGACCTTTGAGTCTATCGGCAAGCCTC
서열번호 2001	Trim-5	4	Trim-5_4	CACTGAGGGAAAAGTCGTTGTCATGGGGCGAAAGACCTTTGAGTCTATCGGCAAGCCTCT
서열번호 2002	Trim-5	5	Trim-5_5	ACTGAGGGAAAAGTCGTTGTCATGGGGCGAAAGACCTTTGAGTCTATCGGCAAGCCTCTA
서열번호 2003	Trim-5	6	Trim-5_6	CTGAGGGAAAAGTCGTTGTCATGGGGCGAAAGACCTTTGAGTCTATCGGCAAGCCTCTAC
서열번호 2004	Trim-5	7	Trim-5_7	TGAGGGAAAAGTCGTTGTCATGGGGCGAAAGACCTTTGAGTCTATCGGCAAGCCTCTACC
서열번호 2005	Trim-5	8	Trim-5_8	GAGGGAAAAGTCGTTGTCATGGGGCGAAAGACCTTTGAGTCTATCGGCAAGCCTCTACCG
서열번호 2006	Trim-5	9	Trim-5_9	AGGGAAAAGTCGTTGTCATGGGGCGAAAGACCTTTGAGTCTATCGGCAAGCCTCTACCGA
서열번호 2007	Trim-5	10	Trim-5_10	GGGAAAAGTCGTTGTCATGGGGCGAAAGACCTTTGAGTCTATCGGCAAGCCTCTACCGAA
서열번호 2008	Trim-5	11	Trim-5_11	GGAAAAGTCGTTGTCATGGGGCGAAAGACCTTTGAGTCTATCGGCAAGCCTCTACCGAAC

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서열번호	TargetID	BPStart	프로브 명칭	염기서열
서열번호 2009	Trim-6	1	Trim-6_1	GTTGGACATCAAATGATGACAATGTAGTTGTATTTCAGTCAATCGAAGAGGCCATGGACA
서열번호 2010	Trim-6	2	Trim-6_2	TTGGACATCAAATGATGACAATGTAGTTGTATTTCAGTCAATCGAAGAGGCCATGGACAG
서열번호 2011	Trim-6	3	Trim-6_3	TGGACATCAAATGATGACAATGTAGTTGTATTTCAGTCAATCGAAGAGGCCATGGACAGG
서열번호 2012	Trim-6	4	Trim-6_4	GGACATCAAATGATGACAATGTAGTTGTATTTCAGTCAATCGAAGAGGCCATGGACAGGC
서열번호 2013	Trim-6	5	Trim-6_5	GACATCAAATGATGACAATGTAGTTGTATTTCAGTCAATCGAAGAGGCCATGGACAGGCT
서열번호 2014	Trim-6	6	Trim-6_6	ACATCAAATGATGACAATGTAGTTGTATTTCAGTCAATCGAAGAGGCCATGGACAGGCTA

서열번호 2015	Trim-6	7	Trim-6_7	CATCAAATGATGACAATGTAGTTGTATTTCAGTCAATCGAAGAGGCCATGGACAGGCTAG
서열번호 2016	Trim-6	8	Trim-6_8	ATCAAATGATGACAATGTAGTTGTATTTCAGTCAATCGAAGAGGCCATGGACAGGCTAGC
서열번호 2017	Trim-6	9	Trim-6_9	TCAAATGATGACAATGTAGTTGTATTTCAGTCAATCGAAGAGGCCATGGACAGGCTAGCT
서열번호 2018	Trim-6	10	Trim-6_10	CAAATGATGACAATGTAGTTGTATTTCAGTCAATCGAAGAGGCCATGGACAGGCTAGCTG
서열번호 2019	Trim-6	11	Trim-6_11	AAATGATGACAATGTAGTTGTATTTCAGTCAATCGAAGAGGCCATGGACAGGCTAGCTGA
서열번호 2020	Trim-7	1	Trim-7_1	TGTAACTCGTTCAAGCTTCACTTCCAGTGATGAGAATGTATTGGTATTTCCATCTATCGA
서열번호 2021	Trim-7	2	Trim-7_2	GTAACTCGTTCAAGCTTCACTTCCAGTGATGAGAATGTATTGGTATTTCCATCTATCGAT
서열번호 2022	Trim-7	3	Trim-7_3	TAACTCGTTCAAGCTTCACTTCCAGTGATGAGAATGTATTGGTATTTCCATCTATCGATG
서열번호 2023	Trim-7	4	Trim-7_4	AACTCGTTCAAGCTTCACTTCCAGTGATGAGAATGTATTGGTATTTCCATCTATCGATGA
서열번호 2024	Trim-7	5	Trim-7_5	ACTCGTTCAAGCTTCACTTCCAGTGATGAGAATGTATTGGTATTTCCATCTATCGATGAA
서열번호 2025	Trim-7	6	Trim-7_6	CTCGTTCAAGCTTCACTTCCAGTGATGAGAATGTATTGGTATTTCCATCTATCGATGAAG
서열번호 2026	Trim-7	7	Trim-7_7	TCGTTCAAGCTTCACTTCCAGTGATGAGAATGTATTGGTATTTCCATCTATCGATGAAGC
서열번호 2027	Trim-7	8	Trim-7_8	CGTTCAAGCTTCACTTCCAGTGATGAGAATGTATTGGTATTTCCATCTATCGATGAAGCG
서열번호 2028	Trim-7	9	Trim-7_9	GTTCAAGCTTCACTTCCAGTGATGAGAATGTATTGGTATTTCCATCTATCGATGAAGCGC
서열번호 2029	Trim-7	10	Trim-7_10	TTCAAGCTTCACTTCCAGTGATGAGAATGTATTGGTATTTCCATCTATCGATGAAGCGCT
서열번호 2030	Trim-7	11	Trim-7_11	TCAAGCTTCACTTCCAGTGATGAGAATGTATTGGTATTTCCATCTATCGATGAAGCGCTA
서열번호 2031	Trim-8	1	Trim-8_1	TCGCTCTAATTTTTCTACGAATGATGAGGGTGTAATGGTTTTCTCCTCAATTCAGGATGC
서열번호 2032	Trim-8	2	Trim-8_2	CGCTCTAATTTTTCTACGAATGATGAGGGTGTAATGGTTTTCTCCTCAATTCAGGATGCC
서열번호 2033	Trim-8	3	Trim-8_3	GCTCTAATTTTTCTACGAATGATGAGGGTGTAATGGTTTTCTCCTCAATTCAGGATGCCT
서열번호 2034	Trim-8	4	Trim-8_4	CTCTAATTTTTCTACGAATGATGAGGGTGTAATGGTTTTCTCCTCAATTCAGGATGCCTT
서열번호 2035	Trim-8	5	Trim-8_5	TCTAATTTTTCTACGAATGATGAGGGTGTAATGGTTTTCTCCTCAATTCAGGATGCCTTA
서열번호 2036	Trim-8	6	Trim-8_6	CTAATTTTTCTACGAATGATGAGGGTGTAATGGTTTTCTCCTCAATTCAGGATGCCTTAA
서열번호 2037	Trim-8	7	Trim-8_7	TAATTTTTCTACGAATGATGAGGGTGTAATGGTTTTCTCCTCAATTCAGGATGCCTTAAT
서열번호 2038	Trim-8	8	Trim-8_8	AATTTTTCTACGAATGATGAGGGTGTAATGGTTTTCTCCTCAATTCAGGATGCCTTAATA
서열번호 2039	Trim-8	9	Trim-8_9	ATTTTTCTACGAATGATGAGGGTGTAATGGTTTTCTCCTCAATTCAGGATGCCTTAATAA
서열번호 2040	Trim-8	10	Trim-8_10	TTTTTCTACGAATGATGAGGGTGTAATGGTTTTCTCCTCAATTCAGGATGCCTTAATAAA
서열번호 2041	Trim-8	11	Trim-8_11	TTTTCTACGAATGATGAGGGTGTAATGGTTTTCTCCTCAATTCAGGATGCCTTAATAAAT
서열번호 2042	Trim-9	1	Trim-9_1	AAGAACGGAATTTCAAGCTCAAATGAAAACGTCCTAGTTTTTCCTTCAATAGAAAATGCT
서열번호 2043	Trim-9	2	Trim-9_2	AGAACGGAATTTCAAGCTCAAATGAAAACGTCCTAGTTTTTCCTTCAATAGAAAATGCTT
서열번호 2044	Trim-9	3	Trim-9_3	GAACGGAATTTCAAGCTCAAATGAAAACGTCCTAGTTTTTCCTTCAATAGAAAATGCTTT
서열번호 2045	Trim-9	4	Trim-9_4	AACGGAATTTCAAGCTCAAATGAAAACGTCCTAGTTTTTCCTTCAATAGAAAATGCTTTG
서열번호 2046	Trim-9	5	Trim-9_5	ACGGAATTTCAAGCTCAAATGAAAACGTCCTAGTTTTTCCTTCAATAGAAAATGCTTTGA

서열번호 2047	Trim-9	6	Trim-9_6	CGGAATTTCAAGCTCAAATGAAAACGTCCTAGTTTTTCCTTCAATAGAAAATGCTTTGAA
서열번호 2048	Trim-9	7	Trim-9_7	GGAATTTCAAGCTCAAATGAAAACGTCCTAGTTTTTCCTTCAATAGAAAATGCTTTGAAA
서열번호 2049	Trim-9	8	Trim-9_8	GAATTTCAAGCTCAAATGAAAACGTCCTAGTTTTTCCTTCAATAGAAAATGCTTTGAAAG
서열번호 2050	Trim-9	9	Trim-9_9	AATTTCAAGCTCAAATGAAAACGTCCTAGTTTTTCCTTCAATAGAAAATGCTTTGAAAGA
서열번호 2051	Trim-9	10	Trim-9_10	ATTTCAAGCTCAAATGAAAACGTCCTAGTTTTTCCTTCAATAGAAAATGCTTTGAAAGAG
서열번호 2052	Trim-9	11	Trim-9_11	TTTCAAGCTCAAATGAAAACGTCCTAGTTTTTCCTTCAATAGAAAATGCTTTGAAAGAGC
서열번호 2053	Trim-10	1	Trim-10_1	AATTCAATTTTCAATGATTGTAGCGCGTGGTGTAAACGGTGAGATTGGTCAGGACGGCGA
서열번호 2054	Trim-10	2	Trim-10_2	ATTCAATTTTCAATGATTGTAGCGCGTGGTGTAAACGGTGAGATTGGTCAGGACGGCGAC
서열번호 2055	Trim-10	3	Trim-10_3	TTCAATTTTCAATGATTGTAGCGCGTGGTGTAAACGGTGAGATTGGTCAGGACGGCGACT
서열번호 2056	Trim-10	4	Trim-10_4	TCAATTTTCAATGATTGTAGCGCGTGGTGTAAACGGTGAGATTGGTCAGGACGGCGACTT
서열번호 2057	Trim-10	5	Trim-10_5	CAATTTTCAATGATTGTAGCGCGTGGTGTAAACGGTGAGATTGGTCAGGACGGCGACTTG
서열번호 2058	Trim-10	6	Trim-10_6	AATTTTCAATGATTGTAGCGCGTGGTGTAAACGGTGAGATTGGTCAGGACGGCGACTTGC
서열번호 2059	Trim-10	7	Trim-10_7	ATTTTCAATGATTGTAGCGCGTGGTGTAAACGGTGAGATTGGTCAGGACGGCGACTTGCC
서열번호 2060	Trim-10	8	Trim-10_8	TTTTCAATGATTGTAGCGCGTGGTGTAAACGGTGAGATTGGTCAGGACGGCGACTTGCCT
서열번호 2061	Trim-10	9	Trim-10_9	TTTCAATGATTGTAGCGCGTGGTGTAAACGGTGAGATTGGTCAGGACGGCGACTTGCCTT
서열번호 2062	Trim-10	10	Trim-10_10	TTCAATGATTGTAGCGCGTGGTGTAAACGGTGAGATTGGTCAGGACGGCGACTTGCCTTG
서열번호 2063	Trim-10	11	Trim-10_11	TCAATGATTGTAGCGCGTGGTGTAAACGGTGAGATTGGTCAGGACGGCGACTTGCCTTGG
서열번호 2064	Trim-11	1	Trim-11_1	TAAATATAGCTTAATTGTTGCAATTGGGAAACACCGAGAAATGGGTGCTGACAATGATTT
서열번호 2065	Trim-11	2	Trim-11_2	AAATATAGCTTAATTGTTGCAATTGGGAAACACCGAGAAATGGGTGCTGACAATGATTTG
서열번호 2066	Trim-11	3	Trim-11_3	AATATAGCTTAATTGTTGCAATTGGGAAACACCGAGAAATGGGTGCTGACAATGATTTGC
서열번호 2067	Trim-11	4	Trim-11_4	ATATAGCTTAATTGTTGCAATTGGGAAACACCGAGAAATGGGTGCTGACAATGATTTGCT
서열번호 2068	Trim-11	5	Trim-11_5	TATAGCTTAATTGTTGCAATTGGGAAACACCGAGAAATGGGTGCTGACAATGATTTGCTT
서열번호 2069	Trim-11	6	Trim-11_6	ATAGCTTAATTGTTGCAATTGGGAAACACCGAGAAATGGGTGCTGACAATGATTTGCTTT
서열번호 2070	Trim-11	7	Trim-11_7	TAGCTTAATTGTTGCAATTGGGAAACACCGAGAAATGGGTGCTGACAATGATTTGCTTTG
서열번호 2071	Trim-11	8	Trim-11_8	AGCTTAATTGTTGCAATTGGGAAACACCGAGAAATGGGTGCTGACAATGATTTGCTTTGG
서열번호 2072	Trim-11	9	Trim-11_9	ATAGCTTAATTGTTGCAATTGGGAAACACCGAGAAATGGGTGCTGACAATGATTTGCTTT
서열번호 2073	Trim-11	10	Trim-11_10	TAGCTTAATTGTTGCAATTGGGAAACACCGAGAAATGGGTGCTGACAATGATTTGCTTTG
서열번호 2074	Trim-11	11	Trim-11_11	AGCTTAATTGTTGCAATTGGGAAACACCGAGAAATGGGTGCTGACAATGATTTGCTTTGG
서열번호 2075	Trim-12	1	Trim-12_1	CAAAAAGTTTGTTGCAGGTCAAGGGTCTATCACCATTCAAACTGCGGTAGATGGTGAGAC
서열번호 2076	Trim-12	2	Trim-12_2	AAAAAGTTTGTTGCAGGTCAAGGGTCTATCACCATTCAAACTGCGGTAGATGGTGAGACC
서열번호 2077	Trim-12	3	Trim-12_3	AAAAGTTTGTTGCAGGTCAAGGGTCTATCACCATTCAAACTGCGGTAGATGGTGAGACCC
서열번호 2078	Trim-12	4	Trim-12_4	AAAGTTTGTTGCAGGTCAAGGGTCTATCACCATTCAAACTGCGGTAGATGGTGAGACCCA

서열번호 2079	Trim-12	5	Trim-12_5	AAGTTTGTTGCAGGTCAAGGGTCTATCACCATTCAAACTGCGGTAGATGGTGAG ACCCAT
서열번호 2080	Trim-12	6	Trim-12_6	AGTTTGTTGCAGGTCAAGGGTCTATCACCATTCAAACTGCGGTAGATGGTGAGA CCCATC
서열번호 2081	Trim-12	7	Trim-12_7	GTTTGTTGCAGGTCAAGGGTCTATCACCATTCAAACTGCGGTAGATGGTGAGAC CCATCC
서열번호 2082	Trim-12	8	Trim-12_8	TTTGTTGCAGGTCAAGGGTCTATCACCATTCAAACTGCGGTAGATGGTGAGACC CATCCC
서열번호 2083	Trim-12	9	Trim-12_9	TTGTTGCAGGTCAAGGGTCTATCACCATTCAAACTGCGGTAGATGGTGAGACCC ATCCCG
서열번호 2084	Trim-12	10	Trim-12_10	TGTTGCAGGTCAAGGGTCTATCACCATTCAAACTGCGGTAGATGGTGAGACCCA TCCCGT
서열번호 2085	Trim-12	11	Trim-12_11	GTTGCAGGTCAAGGGTCTATCACCATTCAAACTGCGGTAGATGGTGAGACCCAT CCCGTG
서열번호 2086	Trim-13	1	Trim-13_1	ACGAAGTAGCAATGAAGTCAGTAATCCAGTTGCTGGCAATTTTGTATTCCCATC GAACGC
서열번호 2087	Trim-13	2	Trim-13_2	CGAAGTAGCAATGAAGTCAGTAATCCAGTTGCTGGCAATTTTGTATTCCCATCG AACGCC
서열번호 2088	Trim-13	3	Trim-13_3	GAAGTAGCAATGAAGTCAGTAATCCAGTTGCTGGCAATTTTGTATTCCCATCGA ACGCCA
서열번호 2089	Trim-13	4	Trim-13_4	AAGTAGCAATGAAGTCAGTAATCCAGTTGCTGGCAATTTTGTATTCCCATCGAA CGCCAC
서열번호 2090	Trim-13	5	Trim-13_5	AGTAGCAATGAAGTCAGTAATCCAGTTGCTGGCAATTTTGTATTCCCATCGAAC GCCACG
서열번호 2091	Trim-13	6	Trim-13_6	GTAGCAATGAAGTCAGTAATCCAGTTGCTGGCAATTTTGTATTCCCATCGAACG CCACGT
서열번호 2092	Trim-13	7	Trim-13_7	TAGCAATGAAGTCAGTAATCCAGTTGCTGGCAATTTTGTATTCCCATCGAACGC CACGTT
서열번호 2093	Trim-13	8	Trim-13_8	AGCAATGAAGTCAGTAATCCAGTTGCTGGCAATTTTGTATTCCCATCGAACGCC ACGTTT
서열번호 2094	Trim-13	9	Trim-13_9	GCAATGAAGTCAGTAATCCAGTTGCTGGCAATTTTGTATTCCCATCGAACGCCA CGTTTG
서열번호 2095	Trim-13	10	Trim-13_10	CAATGAAGTCAGTAATCCAGTTGCTGGCAATTTTGTATTCCCATCGAACGCCAC GTTTGG
서열번호 2096	Trim-13	11	Trim-13_11	AATGAAGTCAGTAATCCAGTTGCTGGCAATTTTGTATTCCCATCGAACGCCACG TTTGGT
서열번호 2097	Trim-14	1	Trim-14_1	GGGTCAAAGTAGCGATGAAGCCAACGCTCCCGTTGCAGGGCAGTTTGCGCTTCC CCTGAG
서열번호 2098	Trim-14	2	Trim-14_2	GGTCAAAGTAGCGATGAAGCCAACGCTCCCGTTGCAGGGCAGTTTGCGCTTCCC CTGAGT
서열번호 2099	Trim-14	3	Trim-14_3	GTCAAAGTAGCGATGAAGCCAACGCTCCCGTTGCAGGGCAGTTTGCGCTTCCCC TGAGTG
서열번호 2100	Trim-14	4	Trim-14_4	TCAAAGTAGCGATGAAGCCAACGCTCCCGTTGCAGGGCAGTTTGCGCTTCCCCT GAGTGC
서열번호 2101	Trim-14	5	Trim-14_5	CAAAGTAGCGATGAAGCCAACGCTCCCGTTGCAGGGCAGTTTGCGCTTCCCCTG AGTGCC
서열번호 2102	Trim-14	6	Trim-14_6	AAAGTAGCGATGAAGCCAACGCTCCCGTTGCAGGGCAGTTTGCGCTTCCCCTGA GTGCCA
서열번호 2103	Trim-14	7	Trim-14_7	AAGTAGCGATGAAGCCAACGCTCCCGTTGCAGGGCAGTTTGCGCTTCCCCTGAG TGCCAC
서열번호 2104	Trim-14	8	Trim-14_8	AGTAGCGATGAAGCCAACGCTCCCGTTGCAGGGCAGTTTGCGCTTCCCCTGAGT GCCACC
서열번호 2105	Trim-14	9	Trim-14_9	GTAGCGATGAAGCCAACGCTCCCGTTGCAGGGCAGTTTGCGCTTCCCCTGAGTG CCACCT
서열번호 2106	Trim-14	10	Trim-14_10	TAGCGATGAAGCCAACGCTCCCGTTGCAGGGCAGTTTGCGCTTCCCCTGAGTGC CACCTT
서열번호 2107	Trim-14	11	Trim-14_11	AGCGATGAAGCCAACGCTCCCGTTGCAGGGCAGTTTGCGCTTCCCCTGAGTGCC ACCTTT
서열번호 2108	Trim-15	1	Trim-15_1	ACCAACACAACAATGGAGTCAGTACTCTAGTTGCTGGCCAGTTTGCGCTCCCAT CGCACG
서열번호 2109	Trim-15	2	Trim-15_2	CCAACACAACAATGGAGTCAGTACTCTAGTTGCTGGCCAGTTTGCGCTCCCATC GCACGC
서열번호 2110	Trim-15	3	Trim-15_3	CAACACAACAATGGAGTCAGTACTCTAGTTGCTGGCCAGTTTGCGCTCCCATCG CACGCC

서열번호 2111	Trim-15	4	Trim-15_4	AACACAACAATGGAGTCAGTACTCTAGTTGCTGGCCAGTTTGCGCTCCCATCGCACGCCA
서열번호 2112	Trim-15	5	Trim-15_5	ACACAACAATGGAGTCAGTACTCTAGTTGCTGGCCAGTTTGCGCTCCCATCGCACGCCAC
서열번호 2113	Trim-15	6	Trim-15_6	CACAACAATGGAGTCAGTACTCTAGTTGCTGGCCAGTTTGCGCTCCCATCGCACGCCACG
서열번호 2114	Trim-15	7	Trim-15_7	ACAACAATGGAGTCAGTACTCTAGTTGCTGGCCAGTTTGCGCTCCCATCGCACGCCACGT
서열번호 2115	Trim-15	8	Trim-15_8	CAACAATGGAGTCAGTACTCTAGTTGCTGGCCAGTTTGCGCTCCCATCGCACGCCACGTT
서열번호 2116	Trim-15	9	Trim-15_9	AACAATGGAGTCAGTACTCTAGTTGCTGGCCAGTTTGCGCTCCCATCGCACGCCACGTTT
서열번호 2117	Trim-15	10	Trim-15_10	ACAATGGAGTCAGTACTCTAGTTGCTGGCCAGTTTGCGCTCCCATCGCACGCCACGTTTG
서열번호 2118	Trim-15	11	Trim-15_11	CAATGGAGTCAGTACTCTAGTTGCTGGCCAGTTTGCGCTCCCATCGCACGCCACGTTTGG
서열번호 2119	Trim-16	1	Trim-16_1	GAATGAAGGAAAAAATGAGGTCAGTACTTCAGCTGCTGGCCGGTTCGCATTCCCATCAAA
서열번호 2120	Trim-16	2	Trim-16_2	AATGAAGGAAAAAATGAGGTCAGTACTTCAGCTGCTGGCCGGTTCGCATTCCCATCAAAC
서열번호 2121	Trim-16	3	Trim-16_3	ATGAAGGAAAAAATGAGGTCAGTACTTCAGCTGCTGGCCGGTTCGCATTCCCATCAAACG
서열번호 2122	Trim-16	4	Trim-16_4	TGAAGGAAAAAATGAGGTCAGTACTTCAGCTGCTGGCCGGTTCGCATTCCCATCAAACGC
서열번호 2123	Trim-16	5	Trim-16_5	GAAGGAAAAAATGAGGTCAGTACTTCAGCTGCTGGCCGGTTCGCATTCCCATCAAACGCC
서열번호 2124	Trim-16	6	Trim-16_6	AAGGAAAAAATGAGGTCAGTACTTCAGCTGCTGGCCGGTTCGCATTCCCATCAAACGCCA
서열번호 2125	Trim-16	7	Trim-16_7	AGGAAAAAATGAGGTCAGTACTTCAGCTGCTGGCCGGTTCGCATTCCCATCAAACGCCAC
서열번호 2126	Trim-16	8	Trim-16_8	GGAAAAAATGAGGTCAGTACTTCAGCTGCTGGCCGGTTCGCATTCCCATCAAACGCCACG
서열번호 2127	Trim-16	9	Trim-16_9	GAAAAAATGAGGTCAGTACTTCAGCTGCTGGCCGGTTCGCATTCCCATCAAACGCCACGT
서열번호 2128	Trim-16	10	Trim-16_10	AAAAAATGAGGTCAGTACTTCAGCTGCTGGCCGGTTCGCATTCCCATCAAACGCCACGTT
서열번호 2129	Trim-16	11	Trim-16_11	AAAAATGAGGTCAGTACTTCAGCTGCTGGCCGGTTCGCATTCCCATCAAACGCCACGTTT
서열번호 2130	Trim-17	1	Trim-17_1	CGCTTGGGTGGCAGGAGTTGGAGCGGTCAACGCATCCTGCTGACGATAAGAACAGCTATG
서열번호 2131	Trim-17	2	Trim-17_2	GCTTGGGTGGCAGGAGTTGGAGCGGTCAACGCATCCTGCTGACGATAAGAACAGCTATGC
서열번호 2132	Trim-17	3	Trim-17_3	CTTGGGTGGCAGGAGTTGGAGCGGTCAACGCATCCTGCTGACGATAAGAACAGCTATGCC
서열번호 2133	Trim-17	4	Trim-17_4	TTGGGTGGCAGGAGTTGGAGCGGTCAACGCATCCTGCTGACGATAAGAACAGCTATGCCT
서열번호 2134	Trim-17	5	Trim-17_5	TGGGTGGCAGGAGTTGGAGCGGTCAACGCATCCTGCTGACGATAAGAACAGCTATGCCTG
서열번호 2135	Trim-17	6	Trim-17_6	GGGTGGCAGGAGTTGGAGCGGTCAACGCATCCTGCTGACGATAAGAACAGCTATGCCTGC
서열번호 2136	Trim-17	7	Trim-17_7	GGTGGCAGGAGTTGGAGCGGTCAACGCATCCTGCTGACGATAAGAACAGCTATGCCTGCG
서열번호 2137	Trim-17	8	Trim-17_8	GTGGCAGGAGTTGGAGCGGTCAACGCATCCTGCTGACGATAAGAACAGCTATGCCTGCGA
서열번호 2138	Trim-17	9	Trim-17_9	TGGCAGGAGTTGGAGCGGTCAACGCATCCTGCTGACGATAAGAACAGCTATGCCTGCGAA
서열번호 2139	Trim-17	10	Trim-17_10	GGCAGGAGTTGGAGCGGTCAACGCATCCTGCTGACGATAAGAACAGCTATGCCTGCGAAT
서열번호 2140	Trim-17	11	Trim-17_11	GCAGGAGTTGGAGCGGTCAACGCATCCTGCTGACGATAAGAACAGCTATGCCTGCGAATT
서열번호 2141	Trim-18	1	Trim-18_1	CTAAACAAGCAATATTTGCCGTAGCCGAGAACCTAGCCTTCGGGCTAGGTGGGGGTCTCC
서열번호 2142	Trim-18	2	Trim-18_2	TAAACAAGCAATATTTGCCGTAGCCGAGAACCTAGCCTTCGGGCTAGGTGGGGGTCTCCC

서열번호 2143	Trim-18	3	Trim-18_3	AAACAAGCAATATTTGCCGTAGCCGAGAACCTAGCCTTCGGGCTAGGTGGGGGTCTCCCT
서열번호 2144	Trim-18	4	Trim-18_4	AACAAGCAATATTTGCCGTAGCCGAGAACCTAGCCTTCGGGCTAGGTGGGGGTCTCCCTT
서열번호 2145	Trim-18	5	Trim-18_5	ACAAGCAATATTTGCCGTAGCCGAGAACCTAGCCTTCGGGCTAGGTGGGGGTCTCCCTTG
서열번호 2146	Trim-18	6	Trim-18_6	CAAGCAATATTTGCCGTAGCCGAGAACCTAGCCTTCGGGCTAGGTGGGGGTCTCCCTTGG
서열번호 2147	Trim-18	7	Trim-18_7	AAGCAATATTTGCCGTAGCCGAGAACCTAGCCTTCGGGCTAGGTGGGGGTCTCCCTTGGG
서열번호 2148	Trim-18	8	Trim-18_8	AGCAATATTTGCCGTAGCCGAGAACCTAGCCTTCGGGCTAGGTGGGGGTCTCCCTTGGGA
서열번호 2149	Trim-18	9	Trim-18_9	GCAATATTTGCCGTAGCCGAGAACCTAGCCTTCGGGCTAGGTGGGGGTCTCCCTTGGGAT
서열번호 2150	Trim-18	10	Trim-18_10	CAATATTTGCCGTAGCCGAGAACCTAGCCTTCGGGCTAGGTGGGGGTCTCCCTTGGGATA
서열번호 2151	Trim-18	11	Trim-18_11	AATATTTGCCGTAGCCGAGAACCTAGCCTTCGGGCTAGGTGGGGGTCTCCCTTGGGATAC
서열번호 2152	Trim-19	1	Trim-19_1	CCTGGACGGCCGATAATGACAACGTAATAGTATTCCCGTCGATCGAAGAGGCCATGTACG
서열번호 2153	Trim-19	2	Trim-19_2	CTGGACGGCCGATAATGACAACGTAATAGTATTCCCGTCGATCGAAGAGGCCATGTACGG
서열번호 2154	Trim-19	3	Trim-19_3	TGGACGGCCGATAATGACAACGTAATAGTATTCCCGTCGATCGAAGAGGCCATGTACGGG
서열번호 2155	Trim-19	4	Trim-19_4	GGACGGCCGATAATGACAACGTAATAGTATTCCCGTCGATCGAAGAGGCCATGTACGGGC
서열번호 2156	Trim-19	5	Trim-19_5	GACGGCCGATAATGACAACGTAATAGTATTCCCGTCGATCGAAGAGGCCATGTACGGGCT
서열번호 2157	Trim-19	6	Trim-19_6	ACGGCCGATAATGACAACGTAATAGTATTCCCGTCGATCGAAGAGGCCATGTACGGGCTG
서열번호 2158	Trim-19	7	Trim-19_7	CGGCCGATAATGACAACGTAATAGTATTCCCGTCGATCGAAGAGGCCATGTACGGGCTGG
서열번호 2159	Trim-19	8	Trim-19_8	GGCCGATAATGACAACGTAATAGTATTCCCGTCGATCGAAGAGGCCATGTACGGGCTGGC
서열번호 2160	Trim-19	9	Trim-19_9	GCCGATAATGACAACGTAATAGTATTCCCGTCGATCGAAGAGGCCATGTACGGGCTGGCT
서열번호 2161	Trim-19	10	Trim-19_10	CCGATAATGACAACGTAATAGTATTCCCGTCGATCGAAGAGGCCATGTACGGGCTGGCTG
서열번호 2162	Trim-19	11	Trim-19_11	CGATAATGACAACGTAATAGTATTCCCGTCGATCGAAGAGGCCATGTACGGGCTGGCTGA
서열번호 2163	Trim-20	1	Trim-20_1	AATATCTCTTATGGCAGCTGTTTCCGAGAATGGAGTAATTGGCTCTGGATTGGATATACC
서열번호 2164	Trim-20	2	Trim-20_2	ATATCTCTTATGGCAGCTGTTTCCGAGAATGGAGTAATTGGCTCTGGATTGGATATACCT
서열번호 2165	Trim-20	3	Trim-20_3	TATCTCTTATGGCAGCTGTTTCCGAGAATGGAGTAATTGGCTCTGGATTGGATATACCTT
서열번호 2166	Trim-20	4	Trim-20_4	ATCTCTTATGGCAGCTGTTTCCGAGAATGGAGTAATTGGCTCTGGATTGGATATACCTTG
서열번호 2167	Trim-20	5	Trim-20_5	TCTCTTATGGCAGCTGTTTCCGAGAATGGAGTAATTGGCTCTGGATTGGATATACCTTGG
서열번호 2168	Trim-20	6	Trim-20_6	CTCTTATGGCAGCTGTTTCCGAGAATGGAGTAATTGGCTCTGGATTGGATATACCTTGGC
서열번호 2169	Trim-20	7	Trim-20_7	TCTTATGGCAGCTGTTTCCGAGAATGGAGTAATTGGCTCTGGATTGGATATACCTTGGCA
서열번호 2170	Trim-20	8	Trim-20_8	CTTATGGCAGCTGTTTCCGAGAATGGAGTAATTGGCTCTGGATTGGATATACCTTGGCAT
서열번호 2171	Trim-20	9	Trim-20_9	TTATGGCAGCTGTTTCCGAGAATGGAGTAATTGGCTCTGGATTGGATATACCTTGGCATG
서열번호 2172	Trim-20	10	Trim-20_10	TATGGCAGCTGTTTCCGAGAATGGAGTAATTGGCTCTGGATTGGATATACCTTGGCATGT
서열번호 2173	Trim-20	11	Trim-20_11	ATGGCAGCTGTTTCCGAGAATGGAGTAATTGGCTCTGGATTGGATATACCTTGGCATGTA
서열번호 2174	Trim-21	1	Trim-21_1	GAGGAAAGGAATTTCAAGCTCAAATGAAAATGTATTAGTCTTTCCTTCAATAGAAATCGC

서열번호 2175	Trim-21	2	Trim-21_2	AGGAAAGGAATTTCAAGCTCAAATGAAAATGTATTAGTCTTTCCTTCAATAGAAATCGCT
서열번호 2176	Trim-21	3	Trim-21_3	GGAAAGGAATTTCAAGCTCAAATGAAAATGTATTAGTCTTTCCTTCAATAGAAATCGCTT
서열번호 2177	Trim-21	4	Trim-21_4	GAAAGGAATTTCAAGCTCAAATGAAAATGTATTAGTCTTTCCTTCAATAGAAATCGCTTT
서열번호 2178	Trim-21	5	Trim-21_5	AAAGGAATTTCAAGCTCAAATGAAAATGTATTAGTCTTTCCTTCAATAGAAATCGCTTTG
서열번호 2179	Trim-21	6	Trim-21_6	AAGGAATTTCAAGCTCAAATGAAAATGTATTAGTCTTTCCTTCAATAGAAATCGCTTTGC
서열번호 2180	Trim-21	7	Trim-21_7	AGGAATTTCAAGCTCAAATGAAAATGTATTAGTCTTTCCTTCAATAGAAATCGCTTTGCA
서열번호 2181	Trim-21	8	Trim-21_8	GGAATTTCAAGCTCAAATGAAAATGTATTAGTCTTTCCTTCAATAGAAATCGCTTTGCAA
서열번호 2182	Trim-21	9	Trim-21_9	GAATTTCAAGCTCAAATGAAAATGTATTAGTCTTTCCTTCAATAGAAATCGCTTTGCAAG
서열번호 2183	Trim-21	10	Trim-21_10	AATTTCAAGCTCAAATGAAAATGTATTAGTCTTTCCTTCAATAGAAATCGCTTTGCAAGA
서열번호 2184	Trim-21	11	Trim-21_11	ATTTCAAGCTCAAATGAAAATGTATTAGTCTTTCCTTCAATAGAAATCGCTTTGCAAGAA
서열번호 2185	Trim-22	1	Trim-22_1	GATCGAGCTTCATGCCATTTTAGCTGCCACCGCCAATGGTTGCATTGGGAAGGACAACGC
서열번호 2186	Trim-22	2	Trim-22_2	ATCGAGCTTCATGCCATTTTAGCTGCCACCGCCAATGGTTGCATTGGGAAGGACAACGCA
서열번호 2187	Trim-22	3	Trim-22_3	TCGAGCTTCATGCCATTTTAGCTGCCACCGCCAATGGTTGCATTGGGAAGGACAACGCAC
서열번호 2188	Trim-22	4	Trim-22_4	CGAGCTTCATGCCATTTTAGCTGCCACCGCCAATGGTTGCATTGGGAAGGACAACGCACT
서열번호 2189	Trim-22	5	Trim-22_5	GAGCTTCATGCCATTTTAGCTGCCACCGCCAATGGTTGCATTGGGAAGGACAACGCACTT
서열번호 2190	Trim-22	6	Trim-22_6	AGCTTCATGCCATTTTAGCTGCCACCGCCAATGGTTGCATTGGGAAGGACAACGCACTTC
서열번호 2191	Trim-22	7	Trim-22_7	GCTTCATGCCATTTTAGCTGCCACCGCCAATGGTTGCATTGGGAAGGACAACGCACTTCC
서열번호 2192	Trim-22	8	Trim-22_8	CTTCATGCCATTTTAGCTGCCACCGCCAATGGTTGCATTGGGAAGGACAACGCACTTCCC
서열번호 2193	Trim-22	9	Trim-22_9	TTCATGCCATTTTAGCTGCCACCGCCAATGGTTGCATTGGGAAGGACAACGCACTTCCCT
서열번호 2194	Trim-22	10	Trim-22_10	TCATGCCATTTTAGCTGCCACCGCCAATGGTTGCATTGGGAAGGACAACGCACTTCCCTG
서열번호 2195	Trim-22	11	Trim-22_11	CATGCCATTTTAGCTGCCACCGCCAATGGTTGCATTGGGAAGGACAACGCACTTCCCTGG
서열번호 2196	Trim-23	1	Trim-23_1	CCGTGGCATGAACCAGAAGATTTAAAACACTTCAAAGCTGTTACAATGAACTCAGTTTTG
서열번호 2197	Trim-23	2	Trim-23_2	CGTGGCATGAACCAGAAGATTTAAAACACTTCAAAGCTGTTACAATGAACTCAGTTTTGA
서열번호 2198	Trim-23	3	Trim-23_3	GTGGCATGAACCAGAAGATTTAAAACACTTCAAAGCTGTTACAATGAACTCAGTTTTGAT
서열번호 2199	Trim-23	4	Trim-23_4	TGGCATGAACCAGAAGATTTAAAACACTTCAAAGCTGTTACAATGAACTCAGTTTTGATT
서열번호 2200	Trim-23	5	Trim-23_5	GGCATGAACCAGAAGATTTAAAACACTTCAAAGCTGTTACAATGAACTCAGTTTTGATTA
서열번호 2201	Trim-23	6	Trim-23_6	GCATGAACCAGAAGATTTAAAACACTTCAAAGCTGTTACAATGAACTCAGTTTTGATTAT
서열번호 2202	Trim-23	7	Trim-23_7	CATGAACCAGAAGATTTAAAACACTTCAAAGCTGTTACAATGAACTCAGTTTTGATTATG
서열번호 2203	Trim-23	8	Trim-23_8	ATGAACCAGAAGATTTAAAACACTTCAAAGCTGTTACAATGAACTCAGTTTTGATTATGG
서열번호 2204	Trim-23	9	Trim-23_9	TGAACCAGAAGATTTAAAACACTTCAAAGCTGTTACAATGAACTCAGTTTTGATTATGGG
서열번호 2205	Trim-23	10	Trim-23_10	GAACCAGAAGATTTAAAACACTTCAAAGCTGTTACAATGAACTCAGTTTTGATTATGGGT

서열번호 2206	Trim-23	11	Trim-23_11	AACCAGAAGATTTAAAACACTTCAAAGCTGTTACAATGAACTCAGTTTTGATTATGGGTA

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서열번호	TargetID	BPStart	프로브 명칭	염기서열
서열번호 2207	Trim-24	1	Trim-24_1	TCAGATACAAGTTTCAACGTAGAGGGCGTTGATGTAATTCATTCTATTGAAGATATTTAC
서열번호 2208	Trim-24	2	Trim-24_2	CAGATACAAGTTTCAACGTAGAGGGCGTTGATGTAATTCATTCTATTGAAGATATTTACC
서열번호 2209	Trim-24	3	Trim-24_3	AGATACAAGTTTCAACGTAGAGGGCGTTGATGTAATTCATTCTATTGAAGATATTTACCA
서열번호 2210	Trim-24	4	Trim-24_4	GATACAAGTTTCAACGTAGAGGGCGTTGATGTAATTCATTCTATTGAAGATATTTACCAA
서열번호 2211	Trim-24	5	Trim-24_5	ATACAAGTTTCAACGTAGAGGGCGTTGATGTAATTCATTCTATTGAAGATATTTACCAAC
서열번호 2212	Trim-24	6	Trim-24_6	TACAAGTTTCAACGTAGAGGGCGTTGATGTAATTCATTCTATTGAAGATATTTACCAACT
서열번호 2213	Trim-24	7	Trim-24_7	ACAAGTTTCAACGTAGAGGGCGTTGATGTAATTCATTCTATTGAAGATATTTACCAACTA
서열번호 2214	Trim-24	8	Trim-24_8	CAAGTTTCAACGTAGAGGGCGTTGATGTAATTCATTCTATTGAAGATATTTACCAACTAC
서열번호 2215	Trim-24	9	Trim-24_9	AAGTTTCAACGTAGAGGGCGTTGATGTAATTCATTCTATTGAAGATATTTACCAACTACC
서열번호 2216	Trim-24	10	Trim-24_10	AGTTTCAACGTAGAGGGCGTTGATGTAATTCATTCTATTGAAGATATTTACCAACTACCG
서열번호 2217	Trim-24	11	Trim-24_11	GTTTCAACGTAGAGGGCGTTGATGTAATTCATTCTATTGAAGATATTTACCAACTACCGG
서열번호 2218	Trim-25	1	Trim-25_1	GCGTTGGTGACGGGGAGCGCCAAGGGCATCGGCCGGGCCATCCTCCTGGCCCTCGCCCGG
서열번호 2219	Trim-25	2	Trim-25_2	CGTTGGTGACGGGGAGCGCCAAGGGCATCGGCCGGGCCATCCTCCTGGCCCTCGCCCGGG
서열번호 2220	Trim-25	3	Trim-25_3	GTTGGTGACGGGGAGCGCCAAGGGCATCGGCCGGGCCATCCTCCTGGCCCTCGCCCGGGA
서열번호 2221	Trim-25	4	Trim-25_4	TTGGTGACGGGGAGCGCCAAGGGCATCGGCCGGGCCATCCTCCTGGCCCTCGCCCGGGAG
서열번호 2222	Trim-25	5	Trim-25_5	TGGTGACGGGGAGCGCCAAGGGCATCGGCCGGGCCATCCTCCTGGCCCTCGCCCGGGAGG
서열번호 2223	Trim-25	6	Trim-25_6	GGTGACGGGGAGCGCCAAGGGCATCGGCCGGGCCATCCTCCTGGCCCTCGCCCGGGAGGG
서열번호 2224	Trim-25	7	Trim-25_7	GTGACGGGGAGCGCCAAGGGCATCGGCCGGGCCATCCTCCTGGCCCTCGCCCGGGAGGGC
서열번호 2225	Trim-25	8	Trim-25_8	TGACGGGGAGCGCCAAGGGCATCGGCCGGGCCATCCTCCTGGCCCTCGCCCGGGAGGGCT
서열번호 2226	Trim-25	9	Trim-25_9	GACGGGGAGCGCCAAGGGCATCGGCCGGGCCATCCTCCTGGCCCTCGCCCGGGAGGGCTA
서열번호 2227	Trim-25	10	Trim-25_10	ACGGGGAGCGCCAAGGGCATCGGCCGGGCCATCCTCCTGGCCCTCGCCCGGGAGGGCTAC
서열번호 2228	Trim-25	11	Trim-25_11	CGGGGAGCGCCAAGGGCATCGGCCGGGCCATCCTCCTGGCCCTCGCCCGGGAGGGCTACG
서열번호 2229	Van-1	1	Van-1_1	ATTGCTATTCAGCTGTACTCTCGCCGGATAAAAAAATGCACGGATTACTTGTTAAAAAGA
서열번호 2230	Van-1	2	Van-1_2	TTGCTATTCAGCTGTACTCTCGCCGGATAAAAAAATGCACGGATTACTTGTTAAAAAGAA
서열번호 2231	Van-1	3	Van-1_3	TGCTATTCAGCTGTACTCTCGCCGGATAAAAAAATGCACGGATTACTTGTTAAAAAGAAC
서열번호 2232	Van-1	4	Van-1_4	GCTATTCAGCTGTACTCTCGCCGGATAAAAAAATGCACGGATTACTTGTTAAAAAGAACC
서열번호 2233	Van-1	5	Van-1_5	CTATTCAGCTGTACTCTCGCCGGATAAAAAAATGCACGGATTACTTGTTAAAAAGAACCA
서열번호 2234	Van-1	6	Van-1_6	TATTCAGCTGTACTCTCGCCGGATAAAAAAATGCACGGATTACTTGTTAAAAAGAACCAT

서열번호 2235	Van-1	7	Van-1_7	ATTCAGCTGTACTCTCGCCGGATAAAAAAATGCACGGATTACTTGTTAAAAAGA ACCATG
서열번호 2236	Van-1	8	Van-1_8	TTCAGCTGTACTCTCGCCGGATAAAAAAATGCACGGATTACTTGTTAAAAAGAA CCATGA
서열번호 2237	Van-1	9	Van-1_9	TCAGCTGTACTCTCGCCGGATAAAAAAATGCACGGATTACTTGTTAAAAAGAAC CATGAA
서열번호 2238	Van-1	10	Van-1_10	CAGCTGTACTCTCGCCGGATAAAAAAATGCACGGATTACTTGTTAAAAAGAACC ATGAAT
서열번호 2239	Van-1	11	Van-1_11	AGCTGTACTCTCGCCGGATAAAAAAATGCACGGATTACTTGTTAAAAAGAACCA TGAATA
서열번호 2240	Van-2	1	Van-2_1	ACTGGCCTACATTCTTACAAAAAATGCGGGCATCGCCGTTCCCGAATTTCAAAT GATTGA
서열번호 2241	Van-2	2	Van-2_2	CTGGCCTACATTCTTACAAAAAATGCGGGCATCGCCGTTCCCGAATTTCAAATG ATTGAT
서열번호 2242	Van-2	3	Van-2_3	TGGCCTACATTCTTACAAAAAATGCGGGCATCGCCGTTCCCGAATTTCAAATGA TTGATA
서열번호 2243	Van-2	4	Van-2_4	GGCCTACATTCTTACAAAAAATGCGGGCATCGCCGTTCCCGAATTTCAAATGAT TGATAA
서열번호 2244	Van-2	5	Van-2_5	GCCTACATTCTTACAAAAAATGCGGGCATCGCCGTTCCCGAATTTCAAATGATT GATAAA
서열번호 2245	Van-2	6	Van-2_6	CCTACATTCTTACAAAAAATGCGGGCATCGCCGTTCCCGAATTTCAAATGATTG ATAAAG
서열번호 2246	Van-2	7	Van-2_7	CTACATTCTTACAAAAAATGCGGGCATCGCCGTTCCCGAATTTCAAATGATTGA TAAAGG
서열번호 2247	Van-2	8	Van-2_8	TACATTCTTACAAAAAATGCGGGCATCGCCGTTCCCGAATTTCAAATGATTGAT AAAGGT
서열번호 2248	Van-2	9	Van-2_9	ACATTCTTACAAAAAATGCGGGCATCGCCGTTCCCGAATTTCAAATGATTGATA AAGGTG
서열번호 2249	Van-2	10	Van-2_10	CATTCTTACAAAAAATGCGGGCATCGCCGTTCCCGAATTTCAAATGATTGATAA AGGTGA
서열번호 2250	Van-2	11	Van-2_11	ATTCTTACAAAAAATGCGGGCATCGCCGTTCCCGAATTTCAAATGATTGATAAA GGTGAC
서열번호 2251	Van-3	1	Van-3_1	AAGACCATGGATTCCCGATCTTTATCAAGCCGAATGAAGCCGGTTCTTCAAAAG GGATCA
서열번호 2252	Van-3	2	Van-3_2	AGACCATGGATTCCCGATCTTTATCAAGCCGAATGAAGCCGGTTCTTCAAAAGG GATCAC
서열번호 2253	Van-3	3	Van-3_3	GACCATGGATTCCCGATCTTTATCAAGCCGAATGAAGCCGGTTCTTCAAAAGGG ATCACA
서열번호 2254	Van-3	4	Van-3_4	ACCATGGATTCCCGATCTTTATCAAGCCGAATGAAGCCGGTTCTTCAAAAGGGA TCACAA
서열번호 2255	Van-3	5	Van-3_5	CCATGGATTCCCGATCTTTATCAAGCCGAATGAAGCCGGTTCTTCAAAAGGGAT CACAAA
서열번호 2256	Van-3	6	Van-3_6	CATGGATTCCCGATCTTTATCAAGCCGAATGAAGCCGGTTCTTCAAAAGGGATC ACAAAA
서열번호 2257	Van-3	7	Van-3_7	ATGGATTCCCGATCTTTATCAAGCCGAATGAAGCCGGTTCTTCAAAAGGGATCA CAAAAG
서열번호 2258	Van-3	8	Van-3_8	TGGATTCCCGATCTTTATCAAGCCGAATGAAGCCGGTTCTTCAAAAGGGATCAC AAAAGT
서열번호 2259	Van-3	9	Van-3_9	GGATTCCCGATCTTTATCAAGCCGAATGAAGCCGGTTCTTCAAAAGGGATCACA AAAGTA
서열번호 2260	Van-3	10	Van-3_10	GATTCCCGATCTTTATCAAGCCGAATGAAGCCGGTTCTTCAAAAGGGATCACAA AAGTAA
서열번호 2261	Van-3	11	Van-3_11	ATTCCCGATCTTTATCAAGCCGAATGAAGCCGGTTCTTCAAAAGGGATCACAAA AGTAAC
서열번호 2262	Van-4	1	Van-4_1	AGACCCATGGCTTCCCGGTTTTCTTTAAGCCTAATGAAGCTGGCTCCTCAAAAG GGATCA
서열번호 2263	Van-4	2	Van-4_2	GACCCATGGCTTCCCGGTTTTCTTTAAGCCTAATGAAGCTGGCTCCTCAAAAGG GATCAC
서열번호 2264	Van-4	3	Van-4_3	ACCCATGGCTTCCCGGTTTTCTTTAAGCCTAATGAAGCTGGCTCCTCAAAAGGG ATCACA
서열번호 2265	Van-4	4	Van-4_4	CCCATGGCTTCCCGGTTTTCTTTAAGCCTAATGAAGCTGGCTCCTCAAAAGGGA TCACAA
서열번호 2266	Van-4	5	Van-4_5	CCATGGCTTCCCGGTTTTCTTTAAGCCTAATGAAGCTGGCTCCTCAAAAGGGAT CACAAA

서열번호 2267	Van-4	6	Van-4_6	CATGGCTTCCCGGTTTTCTTTAAGCCTAATGAAGCTGGCTCCTCAAAAGGGATCACACAAA
서열번호 2268	Van-4	7	Van-4_7	ATGGCTTCCCGGTTTTCTTTAAGCCTAATGAAGCTGGCTCCTCAAAAGGGATCACAAAAG
서열번호 2269	Van-4	8	Van-4_8	TGGCTTCCCGGTTTTCTTTAAGCCTAATGAAGCTGGCTCCTCAAAAGGGATCACAAAAGT
서열번호 2270	Van-4	9	Van-4_9	GGCTTCCCGGTTTTCTTTAAGCCTAATGAAGCTGGCTCCTCAAAAGGGATCACAAAAGTA
서열번호 2271	Van-4	10	Van-4_10	GCTTCCCGGTTTTCTTTAAGCCTAATGAAGCTGGCTCCTCAAAAGGGATCACAAAAGTAA
서열번호 2272	Van-4	11	Van-4_11	CTTCCCGGTTTTCTTTAAGCCTAATGAAGCTGGCTCCTCAAAAGGGATCACAAAAGTAAC
서열번호 2273	Van-5	1	Van-5_1	AACTATGCGGGATACCCGGCTGTGATTTCTCCGGACAGAAGGACCCATGGCCTGCTGATA
서열번호 2274	Van-5	2	Van-5_2	ACTATGCGGGATACCCGGCTGTGATTTCTCCGGACAGAAGGACCCATGGCCTGCTGATAC
서열번호 2275	Van-5	3	Van-5_3	CTATGCGGGATACCCGGCTGTGATTTCTCCGGACAGAAGGACCCATGGCCTGCTGATACA
서열번호 2276	Van-5	4	Van-5_4	TATGCGGGATACCCGGCTGTGATTTCTCCGGACAGAAGGACCCATGGCCTGCTGATACAA
서열번호 2277	Van-5	5	Van-5_5	ATGCGGGATACCCGGCTGTGATTTCTCCGGACAGAAGGACCCATGGCCTGCTGATACAAA
서열번호 2278	Van-5	6	Van-5_6	TGCGGGATACCCGGCTGTGATTTCTCCGGACAGAAGGACCCATGGCCTGCTGATACAAAA
서열번호 2279	Van-5	7	Van-5_7	GCGGGATACCCGGCTGTGATTTCTCCGGACAGAAGGACCCATGGCCTGCTGATACAAAAG
서열번호 2280	Van-5	8	Van-5_8	CGGGATACCCGGCTGTGATTTCTCCGGACAGAAGGACCCATGGCCTGCTGATACAAAAGG
서열번호 2281	Van-5	9	Van-5_9	GGGATACCCGGCTGTGATTTCTCCGGACAGAAGGACCCATGGCCTGCTGATACAAAAGGA
서열번호 2282	Van-5	10	Van-5_10	GGATACCCGGCTGTGATTTCTCCGGACAGAAGGACCCATGGCCTGCTGATACAAAAGGAT
서열번호 2283	Van-5	11	Van-5_11	GATACCCGGCTGTGATTTCTCCGGACAGAAGGACCCATGGCCTGCTGATACAAAAGGATG
서열번호 2284	Van-6	1	Van-6_1	CAATATGCGGGGGATCCGGTTGTTTTTTCACCGGACAGAAGTACGCATGGTCTGCTGATA
서열번호 2285	Van-6	2	Van-6_2	AATATGCGGGGGATCCGGTTGTTTTTTCACCGGACAGAAGTACGCATGGTCTGCTGATAC
서열번호 2286	Van-6	3	Van-6_3	ATATGCGGGGGATCCGGTTGTTTTTTCACCGGACAGAAGTACGCATGGTCTGCTGATACA
서열번호 2287	Van-6	4	Van-6_4	TATGCGGGGGATCCGGTTGTTTTTTCACCGGACAGAAGTACGCATGGTCTGCTGATACAA
서열번호 2288	Van-6	5	Van-6_5	ATGCGGGGGATCCGGTTGTTTTTTCACCGGACAGAAGTACGCATGGTCTGCTGATACAAA
서열번호 2289	Van-6	6	Van-6_6	TGCGGGGGATCCGGTTGTTTTTTCACCGGACAGAAGTACGCATGGTCTGCTGATACAAAA
서열번호 2290	Van-6	7	Van-6_7	GCGGGGGATCCGGTTGTTTTTTCACCGGACAGAAGTACGCATGGTCTGCTGATACAAAAA
서열번호 2291	Van-6	8	Van-6_8	CGGGGGATCCGGTTGTTTTTTCACCGGACAGAAGTACGCATGGTCTGCTGATACAAAAAG
서열번호 2292	Van-6	9	Van-6_9	GGGGGATCCGGTTGTTTTTTCACCGGACAGAAGTACGCATGGTCTGCTGATACAAAAAGA
서열번호 2293	Van-6	10	Van-6_10	GGGGATCCGGTTGTTTTTTCACCGGACAGAAGTACGCATGGTCTGCTGATACAAAAAGAC
서열번호 2294	Van-6	11	Van-6_11	GGGATCCGGTTGTTTTTTCACCGGACAGAAGTACGCATGGTCTGCTGATACAAAAAGACA
서열번호 2295	Van-7	1	Van-7_1	GGTAGAAATTGGTTGTGGTATTTTAGGAAATGAACAATTGGTCGTTGGAGAATGTGACCA
서열번호 2296	Van-7	2	Van-7_2	GTAGAAATTGGTTGTGGTATTTTAGGAAATGAACAATTGGTCGTTGGAGAATGTGACCAA
서열번호 2297	Van-7	3	Van-7_3	TAGAAATTGGTTGTGGTATTTTAGGAAATGAACAATTGGTCGTTGGAGAATGTGACCAAA
서열번호 2298	Van-7	4	Van-7_4	AGAAATTGGTTGTGGTATTTTAGGAAATGAACAATTGGTCGTTGGAGAATGTGACCAAAT

서열번호 2299	Van-7	5	Van-7_5	GAAATTGGTTGTGGTATTTTAGGAAATGAACAATTGGTCGTTGGAGAATGTGACCAAATC
서열번호 2300	Van-7	6	Van-7_6	AAATTGGTTGTGGTATTTTAGGAAATGAACAATTGGTCGTTGGAGAATGTGACCAAATCA
서열번호 2301	Van-7	7	Van-7_7	AATTGGTTGTGGTATTTTAGGAAATGAACAATTGGTCGTTGGAGAATGTGACCAAATCAG
서열번호 2302	Van-7	8	Van-7_8	ATTGGTTGTGGTATTTTAGGAAATGAACAATTGGTCGTTGGAGAATGTGACCAAATCAGT
서열번호 2303	Van-7	9	Van-7_9	TTGGTTGTGGTATTTTAGGAAATGAACAATTGGTCGTTGGAGAATGTGACCAAATCAGTC
서열번호 2304	Van-7	10	Van-7_10	TGGTTGTGGTATTTTAGGAAATGAACAATTGGTCGTTGGAGAATGTGACCAAATCAGTCT
서열번호 2305	Van-7	11	Van-7_11	GGTTGTGGTATTTTAGGAAATGAACAATTGGTCGTTGGAGAATGTGACCAAATCAGTCTT
서열번호 2306	Van-8	1	Van-8_1	CTATGCCCTGTTGTCGTTTCCCAAAATCGTTCCGTTAAAGGCTTTTTAGAAATTGCTTCA
서열번호 2307	Van-8	2	Van-8_2	TATGCCCTGTTGTCGTTTCCCAAAATCGTTCCGTTAAAGGCTTTTTAGAAATTGCTTCAG
서열번호 2308	Van-8	3	Van-8_3	ATGCCCTGTTGTCGTTTCCCAAAATCGTTCCGTTAAAGGCTTTTTAGAAATTGCTTCAGA
서열번호 2309	Van-8	4	Van-8_4	TGCCCTGTTGTCGTTTCCCAAAATCGTTCCGTTAAAGGCTTTTTAGAAATTGCTTCAGAC
서열번호 2310	Van-8	5	Van-8_5	GCCCTGTTGTCGTTTCCCAAAATCGTTCCGTTAAAGGCTTTTTAGAAATTGCTTCAGACA
서열번호 2311	Van-8	6	Van-8_6	CCCTGTTGTCGTTTCCCAAAATCGTTCCGTTAAAGGCTTTTTAGAAATTGCTTCAGACAA
서열번호 2312	Van-8	7	Van-8_7	CCTGTTGTCGTTTCCCAAAATCGTTCCGTTAAAGGCTTTTTAGAAATTGCTTCAGACAAA
서열번호 2313	Van-8	8	Van-8_8	CTGTTGTCGTTTCCCAAAATCGTTCCGTTAAAGGCTTTTTAGAAATTGCTTCAGACAAAT
서열번호 2314	Van-8	9	Van-8_9	TGTTGTCGTTTCCCAAAATCGTTCCGTTAAAGGCTTTTTAGAAATTGCTTCAGACAAATA
서열번호 2315	Van-8	10	Van-8_10	GTTGTCGTTTCCCAAAATCGTTCCGTTAAAGGCTTTTTAGAAATTGCTTCAGACAAATAC
서열번호 2316	Van-8	11	Van-8_11	TTGTCGTTTCCCAAAATCGTTCCGTTAAAGGCTTTTTAGAAATTGCTTCAGACAAATACC
서열번호 2317	Van-9	1	Van-9_1	CAATTTATCTTCGCTATTGGAGCGACAGACATAACAGATGTAATTACAAATACTGTTGGA
서열번호 2318	Van-9	2	Van-9_2	AATTTATCTTCGCTATTGGAGCGACAGACATAACAGATGTAATTACAAATACTGTTGGAG
서열번호 2319	Van-9	3	Van-9_3	ATTTATCTTCGCTATTGGAGCGACAGACATAACAGATGTAATTACAAATACTGTTGGAGG
서열번호 2320	Van-9	4	Van-9_4	TTTATCTTCGCTATTGGAGCGACAGACATAACAGATGTAATTACAAATACTGTTGGAGGC
서열번호 2321	Van-9	5	Van-9_5	TTATCTTCGCTATTGGAGCGACAGACATAACAGATGTAATTACAAATACTGTTGGAGGCT
서열번호 2322	Van-9	6	Van-9_6	TATCTTCGCTATTGGAGCGACAGACATAACAGATGTAATTACAAATACTGTTGGAGGCTT
서열번호 2323	Van-9	7	Van-9_7	ATCTTCGCTATTGGAGCGACAGACATAACAGATGTAATTACAAATACTGTTGGAGGCTTT
서열번호 2324	Van-9	8	Van-9_8	TCTTCGCTATTGGAGCGACAGACATAACAGATGTAATTACAAATACTGTTGGAGGCTTTC
서열번호 2325	Van-9	9	Van-9_9	CTTCGCTATTGGAGCGACAGACATAACAGATGTAATTACAAATACTGTTGGAGGCTTTCT
서열번호 2326	Van-9	10	Van-9_10	TTCGCTATTGGAGCGACAGACATAACAGATGTAATTACAAATACTGTTGGAGGCTTTCTT
서열번호 2327	Van-9	11	Van-9_11	TCGCTATTGGAGCGACAGACATAACAGATGTAATTACAAATACTGTTGGAGGCTTTCTTG
서열번호 2328	Amo_CA-1	1	Amo_CA-1_1	AGGTGTATATGCGATTGATACTGGTACAAA
서열번호 2329	Amo_CA-1	2	Amo_CA-1_2	AGGTGTATATGCGATTGATACTGGTACAAA
서열번호 2330	Amo_CA-1	3	Amo_CA-1_3	AGGTGTATATGCGATTGATACTGGTACAAA

서열번호 2331	Amo_CA-1	4	Amo_CA-1_4	AGGTGTATATGCGATTGATACTGGTACAAA
서열번호 2332	Amo_CA-1	5	Amo_CA-1_5	AGGTGTATATGCGATTGATACTGGTACAAA
서열번호 2333	Amo_CA-1	6	Amo_CA-1_6	AGGTGTATATGCGATTGATACTGGTACAAA
서열번호 2334	Amo_CA-1	7	Amo_CA-1_7	AGGTGTATATGCGATTGATACTGGTACAAA
서열번호 2335	Amo_CA-1	8	Amo_CA-1_8	AGGTGTATATGCGATTGATACTGGTACAAA
서열번호 2336	Amo_CA-1	9	Amo_CA-1_9	AGGTGTATATGCGATTGATACTGGTACAAA
서열번호 2337	Amo_CA-1	10	Amo_CA-1_10	AGGTGTATATGCGATTGATACTGGTACAAA
서열번호 2338	Amo_CA-1	11	Amo_CA-1_11	AGGTGTATATGCGATTGATACTGGTACAAA
서열번호 2339	Amo_CA-2	1	Amo_CA-2_1	AGTGGATTATTCACCTGTTACAGAGAAACA
서열번호 2340	Amo_CA-2	2	Amo_CA-2_2	AGTGGATTATTCACCTGTTACAGAGAAACA
서열번호 2341	Amo_CA-2	3	Amo_CA-2_3	AGTGGATTATTCACCTGTTACAGAGAAACA
서열번호 2342	Amo_CA-2	4	Amo_CA-2_4	AGTGGATTATTCACCTGTTACAGAGAAACA
서열번호 2343	Amo_CA-2	5	Amo_CA-2_5	AGTGGATTATTCACCTGTTACAGAGAAACA
서열번호 2344	Amo_CA-2	6	Amo_CA-2_6	AGTGGATTATTCACCTGTTACAGAGAAACA
서열번호 2345	Amo_CA-2	7	Amo_CA-2_7	AGTGGATTATTCACCTGTTACAGAGAAACA
서열번호 2346	Amo_CA-2	8	Amo_CA-2_8	AGTGGATTATTCACCTGTTACAGAGAAACA
서열번호 2347	Amo_CA-2	9	Amo_CA-2_9	AGTGGATTATTCACCTGTTACAGAGAAACA
서열번호 2348	Amo_CA-2	10	Amo_CA-2_10	AGTGGATTATTCACCTGTTACAGAGAAACA
서열번호 2349	Amo_CA-2	11	Amo_CA-2_11	AGTGGATTATTCACCTGTTACAGAGAAACA
서열번호 2350	Amo_CA-3	1	Amo_CA-3_1	CGGAGAAGCAGTTCCTTCGAACGGTTTA
서열번호 2351	Amo_CA-3	2	Amo_CA-3_2	CGGAGAAGCAGTTCCTTCGAACGGTTTA
서열번호 2352	Amo_CA-3	3	Amo_CA-3_3	CGGAGAAGCAGTTCCTTCGAACGGTTTA
서열번호 2353	Amo_CA-3	4	Amo_CA-3_4	CGGAGAAGCAGTTCCTTCGAACGGTTTA
서열번호 2354	Amo_CA-3	5	Amo_CA-3_5	CGGAGAAGCAGTTCCTTCGAACGGTTTA
서열번호 2355	Amo_CA-3	6	Amo_CA-3_6	CGGAGAAGCAGTTCCTTCGAACGGTTTA
서열번호 2356	Amo_CA-3	7	Amo_CA-3_7	CGGAGAAGCAGTTCCTTCGAACGGTTTA
서열번호 2357	Amo_CA-3	8	Amo_CA-3_8	CGGAGAAGCAGTTCCTTCGAACGGTTTA
서열번호 2358	Amo_CA-3	9	Amo_CA-3_9	CGGAGAAGCAGTTCCTTCGAACGGTTTA
서열번호 2359	Amo_CA-3	10	Amo_CA-3_10	CGGAGAAGCAGTTCCTTCGAACGGTTTA
서열번호 2360	Amo_CA-3	11	Amo_CA-3_11	CGGAGAAGCAGTTCCTTCGAACGGTTTA
서열번호 2361	Amo_CA-4	1	Amo_CA-4_1	ACTTGTCGATTCTTCTTGGGATGATAAGTT
서열번호 2362	Amo_CA-4	2	Amo_CA-4_2	ACTTGTCGATTCTTCTTGGGATGATAAGTT

서열번호 2363	Amo_CA-4	3	Amo_CA-4_3	ACTTGTCGATTCTTCTTGGGATGATAAGTT
서열번호 2364	Amo_CA-4	4	Amo_CA-4_4	ACTTGTCGATTCTTCTTGGGATGATAAGTT
서열번호 2365	Amo_CA-4	5	Amo_CA-4_5	ACTTGTCGATTCTTCTTGGGATGATAAGTT
서열번호 2366	Amo_CA-4	6	Amo_CA-4_6	ACTTGTCGATTCTTCTTGGGATGATAAGTT
서열번호 2367	Amo_CA-4	7	Amo_CA-4_7	ACTTGTCGATTCTTCTTGGGATGATAAGTT
서열번호 2368	Amo_CA-4	8	Amo_CA-4_8	ACTTGTCGATTCTTCTTGGGATGATAAGTT
서열번호 2369	Amo_CA-4	9	Amo_CA-4_9	ACTTGTCGATTCTTCTTGGGATGATAAGTT
서열번호 2370	Amo_CA-4	10	Amo_CA-4_10	ACTTGTCGATTCTTCTTGGGATGATAAGTT
서열번호 2371	Amo_CA-4	11	Amo_CA-4_11	ACTTGTCGATTCTTCTTGGGATGATAAGTT
서열번호 2372	Blact-1	1	Blact-1_1	gcctacagctatttatgccggaagatattaaaaataccacacagctgatg
서열번호 2373	Blact-1	2	Blact-1_2	gcctacagctatttatgccggaagatattaaaaataccacacagctgatg
서열번호 2374	Blact-1	3	Blact-1_3	gcctacagctatttatgccggaagatattaaaaataccacacagctgatg
서열번호 2375	Blact-1	4	Blact-1_4	gcctacagctatttatgccggaagatattaaaaataccacacagctgatg
서열번호 2376	Blact-1	5	Blact-1_5	gcctacagctatttatgccggaagatattaaaaataccacacagctgatg
서열번호 2377	Blact-1	6	Blact-1_6	gcctacagctatttatgccggaagatattaaaaataccacacagctgatg
서열번호 2378	Blact-1	7	Blact-1_7	gcctacagctatttatgccggaagatattaaaaataccacacagctgatg
서열번호 2379	Blact-1	8	Blact-1_8	gcctacagctatttatgccggaagatattaaaaataccacacagctgatg
서열번호 2380	Blact-1	9	Blact-1_9	gcctacagctatttatgccggaagatattaaaaataccacacagctgatg
서열번호 2381	Blact-1	10	Blact-1_10	gcctacagctatttatgccggaagatattaaaaataccacacagctgatg
서열번호 2382	Blact-1	11	Blact-1_11	gcctacagctatttatgccggaagatattaaaaataccacacagctgatg
서열번호 2383	Blact-2	1	Blact-2_1	gctgatggcgacggcaaccgtcacgctgttgttaggaagtgtgccgctgt
서열번호 2384	Blact-2	2	Blact-2_2	gctgatggcgacggcaaccgtcacgctgttgttaggaagtgtgccgctgt
서열번호 2385	Blact-2	3	Blact-2_3	gctgatggcgacggcaaccgtcacgctgttgttaggaagtgtgccgctgt
서열번호 2386	Blact-2	4	Blact-2_4	gctgatggcgacggcaaccgtcacgctgttgttaggaagtgtgccgctgt
서열번호 2387	Blact-2	5	Blact-2_5	gctgatggcgacggcaaccgtcacgctgttgttaggaagtgtgccgctgt
서열번호 2388	Blact-2	6	Blact-2_6	gctgatggcgacggcaaccgtcacgctgttgttaggaagtgtgccgctgt
서열번호 2389	Blact-2	7	Blact-2_7	gctgatggcgacggcaaccgtcacgctgttgttaggaagtgtgccgctgt
서열번호 2390	Blact-2	8	Blact-2_8	gctgatggcgacggcaaccgtcacgctgttgttaggaagtgtgccgctgt
서열번호 2391	Blact-2	9	Blact-2_9	gctgatggcgacggcaaccgtcacgctgttgttaggaagtgtgccgctgt
서열번호 2392	Blact-2	10	Blact-2_10	gctgatggcgacggcaaccgtcacgctgttgttaggaagtgtgccgctgt
서열번호 2393	Blact-2	11	Blact-2_11	gctgatggcgacggcaaccgtcacgctgttgttaggaagtgtgccgctgt
서열번호 2394	Blact-3	1	Blact-3_1	gctaaatcagcgcgttgaaatcaagaagagcgacctggttaactacaatc

서열번호 2395	Blact-3	2	Blact-3_2	gctaaatcagcgcgttgaaatcaagaagagcgacctggttaactacaatc
서열번호 2396	Blact-3	3	Blact-3_3	gctaaatcagcgcgttgaaatcaagaagagcgacctggttaactacaatc
서열번호 2397	Blact-3	4	Blact-3_4	gctaaatcagcgcgttgaaatcaagaagagcgacctggttaactacaatc
서열번호 2398	Blact-3	5	Blact-3_5	gctaaatcagcgcgttgaaatcaagaagagcgacctggttaactacaatc
서열번호 2399	Blact-3	6	Blact-3_6	gctaaatcagcgcgttgaaatcaagaagagcgacctggttaactacaatc
서열번호 2400	Blact-3	7	Blact-3_7	gctaaatcagcgcgttgaaatcaagaagagcgacctggttaactacaatc
서열번호 2401	Blact-3	8	Blact-3_8	gctaaatcagcgcgttgaaatcaagaagagcgacctggttaactacaatc
서열번호 2402	Blact-3	9	Blact-3_9	gctaaatcagcgcgttgaaatcaagaagagcgacctggttaactacaatc
서열번호 2403	Blact-3	10	Blact-3_10	gctaaatcagcgcgttgaaatcaagaagagcgacctggttaactacaatc
서열번호 2404	Blact-3	11	Blact-3_11	gctaaatcagcgcgttgaaatcaagaagagcgacctggttaactacaatc

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서열번호	TargetID	BPStart	프로브 명칭	염기서열
서열번호 2405	Blact-4	1	Blact-4_1	ggcttaccgacgtcgtggactgcaggtgataagaccggcagcggcgacta
서열번호 2406	Blact-4	2	Blact-4_2	ggcttaccgacgtcgtggactgcaggtgataagaccggcagcggcgacta
서열번호 2407	Blact-4	3	Blact-4_3	ggcttaccgacgtcgtggactgcaggtgataagaccggcagcggcgacta
서열번호 2408	Blact-4	4	Blact-4_4	ggcttaccgacgtcgtggactgcaggtgataagaccggcagcggcgacta
서열번호 2409	Blact-4	5	Blact-4_5	ggcttaccgacgtcgtggactgcaggtgataagaccggcagcggcgacta
서열번호 2410	Blact-4	6	Blact-4_6	ggcttaccgacgtcgtggactgcaggtgataagaccggcagcggcgacta
서열번호 2411	Blact-4	7	Blact-4_7	ggcttaccgacgtcgtggactgcaggtgataagaccggcagcggcgacta
서열번호 2412	Blact-4	8	Blact-4_8	ggcttaccgacgtcgtggactgcaggtgataagaccggcagcggcgacta
서열번호 2413	Blact-4	9	Blact-4_9	ggcttaccgacgtcgtggactgcaggtgataagaccggcagcggcgacta
서열번호 2414	Blact-4	10	Blact-4_10	ggcttaccgacgtcgtggactgcaggtgataagaccggcagcggcgacta
서열번호 2415	Blact-4	11	Blact-4_11	ggcttaccgacgtcgtggactgcaggtgataagaccggcagcggcgacta
서열번호 2416	Blact-5	1	Blact-5_1	ggaacagcaatcatacaccaaagacgtggatgcaatttttctgttgtttgg
서열번호 2417	Blact-5	2	Blact-5_2	ggaacagcaatcatacaccaaagacgtggatgcaatttttctgttgtttgg
서열번호 2418	Blact-5	3	Blact-5_3	ggaacagcaatcatacaccaaagacgtggatgcaatttttctgttgtttgg
서열번호 2419	Blact-5	4	Blact-5_4	ggaacagcaatcatacaccaaagacgtggatgcaatttttctgttgtttgg
서열번호 2420	Blact-5	5	Blact-5_5	ggaacagcaatcatacaccaaagacgtggatgcaatttttctgttgtttgg
서열번호 2421	Blact-5	6	Blact-5_6	ggaacagcaatcatacaccaaagacgtggatgcaatttttctgttgtttgg
서열번호 2422	Blact-5	7	Blact-5_7	ggaacagcaatcatacaccaaagacgtggatgcaatttttctgttgtttgg
서열번호 2423	Blact-5	8	Blact-5_8	ggaacagcaatcatacaccaaagacgtggatgcaatttttctgttgtttgg

서열번호 2424	Blact-5	9	Blact-5_9	ggaacagcaatcatacaccaaagacgtggatgcaattttctgttgtttgg
서열번호 2425	Blact-5	10	Blact-5_10	ggaacagcaatcatacaccaaagacgtggatgcaattttctgttgtttgg
서열번호 2426	Blact-5	11	Blact-5_11	ggaacagcaatcatacaccaaagacgtggatgcaattttctgttgtttgg
서열번호 2427	Blact-6	1	Blact-6_1	ttataaaagctgtagttactgcctcgacgctactgatggtatcttttagt
서열번호 2428	Blact-6	2	Blact-6_2	ttataaaagctgtagttactgcctcgacgctactgatggtatcttttagt
서열번호 2429	Blact-6	3	Blact-6_3	ttataaaagctgtagttactgcctcgacgctactgatggtatcttttagt
서열번호 2430	Blact-6	4	Blact-6_4	ttataaaagctgtagttactgcctcgacgctactgatggtatcttttagt
서열번호 2431	Blact-6	5	Blact-6_5	ttataaaagctgtagttactgcctcgacgctactgatggtatcttttagt
서열번호 2432	Blact-6	6	Blact-6_6	ttataaaagctgtagttactgcctcgacgctactgatggtatcttttagt
서열번호 2433	Blact-6	7	Blact-6_7	ttataaaagctgtagttactgcctcgacgctactgatggtatcttttagt
서열번호 2434	Blact-6	8	Blact-6_8	ttataaaagctgtagttactgcctcgacgctactgatggtatcttttagt
서열번호 2435	Blact-6	9	Blact-6_9	ttataaaagctgtagttactgcctcgacgctactgatggtatcttttagt
서열번호 2436	Blact-6	10	Blact-6_10	ttataaaagctgtagttactgcctcgacgctactgatggtatcttttagt
서열번호 2437	Blact-6	11	Blact-6_11	ttataaaagctgtagttactgcctcgacgctactgatggtatcttttagt
서열번호 2438	Blact-8	1	Blact-8_1	TTTGTTTATCCTAAGGGCCAATCTGAACCT
서열번호 2439	Blact-8	2	Blact-8_2	TTTGTTTATCCTAAGGGCCAATCTGAACCT
서열번호 2440	Blact-8	3	Blact-8_3	TTTGTTTATCCTAAGGGCCAATCTGAACCT
서열번호 2441	Blact-8	4	Blact-8_4	TTTGTTTATCCTAAGGGCCAATCTGAACCT
서열번호 2442	Blact-8	5	Blact-8_5	TTTGTTTATCCTAAGGGCCAATCTGAACCT
서열번호 2443	Blact-8	6	Blact-8_6	TTTGTTTATCCTAAGGGCCAATCTGAACCT
서열번호 2444	Blact-8	7	Blact-8_7	TTTGTTTATCCTAAGGGCCAATCTGAACCT
서열번호 2445	Blact-8	8	Blact-8_8	TTTGTTTATCCTAAGGGCCAATCTGAACCT
서열번호 2446	Blact-8	9	Blact-8_9	TTTGTTTATCCTAAGGGCCAATCTGAACCT
서열번호 2447	Blact-8	10	Blact-8_10	TTTGTTTATCCTAAGGGCCAATCTGAACCT
서열번호 2448	Blact-8	11	Blact-8_11	TTTGTTTATCCTAAGGGCCAATCTGAACCT
서열번호 2449	Blact-9	1	Blact-9_1	AGTGAAACCGCCAAGAGTGTAATGAAGGAA
서열번호 2450	Blact-9	2	Blact-9_2	AGTGAAACCGCCAAGAGTGTAATGAAGGAA
서열번호 2451	Blact-9	3	Blact-9_3	AGTGAAACCGCCAAGAGTGTAATGAAGGAA
서열번호 2452	Blact-9	4	Blact-9_4	AGTGAAACCGCCAAGAGTGTAATGAAGGAA
서열번호 2453	Blact-9	5	Blact-9_5	AGTGAAACCGCCAAGAGTGTAATGAAGGAA
서열번호 2454	Blact-9	6	Blact-9_6	AGTGAAACCGCCAAGAGTGTAATGAAGGAA
서열번호 2455	Blact-9	7	Blact-9_7	AGTGAAACCGCCAAGAGTGTAATGAAGGAA

서열번호 2456	Blact-9	8	Blact-9_8	AGTGAAACCGCCAAGAGTGTAATGAAGGAA
서열번호 2457	Blact-9	9	Blact-9_9	AGTGAAACCGCCAAGAGTGTAATGAAGGAA
서열번호 2458	Blact-9	10	Blact-9_10	AGTGAAACCGCCAAGAGTGTAATGAAGGAA
서열번호 2459	Blact-9	11	Blact-9_11	AGTGAAACCGCCAAGAGTGTAATGAAGGAA
서열번호 2460	Gen-4	1	Gen-4_1	GCCATCAGAAACGTACCAAATGTCTTTCGCAGG
서열번호 2461	Gen-4	2	Gen-4_2	GCCATCAGAAACGTACCAAATGTCTTTCGCAGG
서열번호 2462	Gen-4	3	Gen-4_3	GCCATCAGAAACGTACCAAATGTCTTTCGCAGG
서열번호 2463	Gen-4	4	Gen-4_4	GCCATCAGAAACGTACCAAATGTCTTTCGCAGG
서열번호 2464	Gen-4	5	Gen-4_5	GCCATCAGAAACGTACCAAATGTCTTTCGCAGG
서열번호 2465	Gen-4	6	Gen-4_6	GCCATCAGAAACGTACCAAATGTCTTTCGCAGG
서열번호 2466	Gen-4	7	Gen-4_7	GCCATCAGAAACGTACCAAATGTCTTTCGCAGG
서열번호 2467	Gen-4	8	Gen-4_8	GCCATCAGAAACGTACCAAATGTCTTTCGCAGG
서열번호 2468	Gen-4	9	Gen-4_9	GCCATCAGAAACGTACCAAATGTCTTTCGCAGG
서열번호 2469	Gen-4	10	Gen-4_10	GCCATCAGAAACGTACCAAATGTCTTTCGCAGG
서열번호 2470	Gen-4	11	Gen-4_11	GCCATCAGAAACGTACCAAATGTCTTTCGCAGG
서열번호 2471	Gen-5	1	Gen-5_1	GGCAGCTAAGGACCTGGCCCGATTTCTAAG
서열번호 2472	Gen-5	2	Gen-5_2	GGCAGCTAAGGACCTGGCCCGATTTCTAAG
서열번호 2473	Gen-5	3	Gen-5_3	GGCAGCTAAGGACCTGGCCCGATTTCTAAG
서열번호 2474	Gen-5	4	Gen-5_4	GGCAGCTAAGGACCTGGCCCGATTTCTAAG
서열번호 2475	Gen-5	5	Gen-5_5	GGCAGCTAAGGACCTGGCCCGATTTCTAAG
서열번호 2476	Gen-5	6	Gen-5_6	GGCAGCTAAGGACCTGGCCCGATTTCTAAG
서열번호 2477	Gen-5	7	Gen-5_7	GGCAGCTAAGGACCTGGCCCGATTTCTAAG
서열번호 2478	Gen-5	8	Gen-5_8	GGCAGCTAAGGACCTGGCCCGATTTCTAAG
서열번호 2479	Gen-5	9	Gen-5_9	GGCAGCTAAGGACCTGGCCCGATTTCTAAG
서열번호 2480	Gen-5	10	Gen-5_10	GGCAGCTAAGGACCTGGCCCGATTTCTAAG
서열번호 2481	Gen-5	11	Gen-5_11	GGCAGCTAAGGACCTGGCCCGATTTCTAAG
서열번호 2482	Gen-6	1	Gen-6_1	ACGGACAGCCGGTATAAAGGGACCACCTAT
서열번호 2483	Gen-6	2	Gen-6_2	ACGGACAGCCGGTATAAAGGGACCACCTAT
서열번호 2484	Gen-6	3	Gen-6_3	ACGGACAGCCGGTATAAAGGGACCACCTAT
서열번호 2485	Gen-6	4	Gen-6_4	ACGGACAGCCGGTATAAAGGGACCACCTAT
서열번호 2486	Gen-6	5	Gen-6_5	ACGGACAGCCGGTATAAAGGGACCACCTAT
서열번호 2487	Gen-6	6	Gen-6_6	ACGGACAGCCGGTATAAAGGGACCACCTAT

서열번호 2488	Gen-6	7	Gen-6_7	ACGGACAGCCGGTATAAAGGGACCACCTAT
서열번호 2489	Gen-6	8	Gen-6_8	ACGGACAGCCGGTATAAAGGGACCACCTAT
서열번호 2490	Gen-6	9	Gen-6_9	ACGGACAGCCGGTATAAAGGGACCACCTAT
서열번호 2491	Gen-6	10	Gen-6_10	ACGGACAGCCGGTATAAAGGGACCACCTAT
서열번호 2492	Gen-6	11	Gen-6_11	ACGGACAGCCGGTATAAAGGGACCACCTAT
서열번호 2493	Gen-7	1	Gen-7_1	TTATCGAGCTGTATGCGGAGTGCATCAGGC
서열번호 2494	Gen-7	2	Gen-7_2	TTATCGAGCTGTATGCGGAGTGCATCAGGC
서열번호 2495	Gen-7	3	Gen-7_3	TTATCGAGCTGTATGCGGAGTGCATCAGGC
서열번호 2496	Gen-7	4	Gen-7_4	TTATCGAGCTGTATGCGGAGTGCATCAGGC
서열번호 2497	Gen-7	5	Gen-7_5	TTATCGAGCTGTATGCGGAGTGCATCAGGC
서열번호 2498	Gen-7	6	Gen-7_6	TTATCGAGCTGTATGCGGAGTGCATCAGGC
서열번호 2499	Gen-7	7	Gen-7_7	TTATCGAGCTGTATGCGGAGTGCATCAGGC
서열번호 2500	Gen-7	8	Gen-7_8	TTATCGAGCTGTATGCGGAGTGCATCAGGC
서열번호 2501	Gen-7	9	Gen-7_9	TTATCGAGCTGTATGCGGAGTGCATCAGGC
서열번호 2502	Gen-7	10	Gen-7_10	TTATCGAGCTGTATGCGGAGTGCATCAGGC
서열번호 2503	Gen-7	11	Gen-7_11	TTATCGAGCTGTATGCGGAGTGCATCAGGC
서열번호 2504	GenNe-1	1	GenNe-1_1	AAGACAAATGCACGGTTTAGATTATACAGA
서열번호 2505	GenNe-1	2	GenNe-1_2	AAGACAAATGCACGGTTTAGATTATACAGA
서열번호 2506	GenNe-1	3	GenNe-1_3	AAGACAAATGCACGGTTTAGATTATACAGA
서열번호 2507	GenNe-1	4	GenNe-1_4	AAGACAAATGCACGGTTTAGATTATACAGA
서열번호 2508	GenNe-1	5	GenNe-1_5	AAGACAAATGCACGGTTTAGATTATACAGA
서열번호 2509	GenNe-1	6	GenNe-1_6	AAGACAAATGCACGGTTTAGATTATACAGA
서열번호 2510	GenNe-1	7	GenNe-1_7	AAGACAAATGCACGGTTTAGATTATACAGA
서열번호 2511	GenNe-1	8	GenNe-1_8	AAGACAAATGCACGGTTTAGATTATACAGA
서열번호 2512	GenNe-1	9	GenNe-1_9	AAGACAAATGCACGGTTTAGATTATACAGA
서열번호 2513	GenNe-1	10	GenNe-1_10	AAGACAAATGCACGGTTTAGATTATACAGA
서열번호 2514	GenNe-1	11	GenNe-1_11	AAGACAAATGCACGGTTTAGATTATACAGA
서열번호 2515	GenNe-2	1	GenNe-2_1	TTATGGAAAGACTAAATGCAACAACAGTTT
서열번호 2516	GenNe-2	2	GenNe-2_2	TTATGGAAAGACTAAATGCAACAACAGTTT
서열번호 2517	GenNe-2	3	GenNe-2_3	TTATGGAAAGACTAAATGCAACAACAGTTT
서열번호 2518	GenNe-2	4	GenNe-2_4	TTATGGAAAGACTAAATGCAACAACAGTTT
서열번호 2519	GenNe-2	5	GenNe-2_5	TTATGGAAAGACTAAATGCAACAACAGTTT

서열번호 2520	GenNe-2	6	GenNe-2_6	TTATGGAAAGACTAAATGCAACAACAGTTT
서열번호 2521	GenNe-2	7	GenNe-2_7	TTATGGAAAGACTAAATGCAACAACAGTTT
서열번호 2522	GenNe-2	8	GenNe-2_8	TTATGGAAAGACTAAATGCAACAACAGTTT
서열번호 2523	GenNe-2	9	GenNe-2_9	TTATGGAAAGACTAAATGCAACAACAGTTT
서열번호 2524	GenNe-2	10	GenNe-2_10	TTATGGAAAGACTAAATGCAACAACAGTTT
서열번호 2525	GenNe-2	11	GenNe-2_11	TTATGGAAAGACTAAATGCAACAACAGTTT
서열번호 2526	GenNe-3	1	GenNe-3_1	AGGATGCCCTTGCATATGATGAAGCGACGT
서열번호 2527	GenNe-3	2	GenNe-3_2	AGGATGCCCTTGCATATGATGAAGCGACGT
서열번호 2528	GenNe-3	3	GenNe-3_3	AGGATGCCCTTGCATATGATGAAGCGACGT
서열번호 2529	GenNe-3	4	GenNe-3_4	AGGATGCCCTTGCATATGATGAAGCGACGT
서열번호 2530	GenNe-3	5	GenNe-3_5	AGGATGCCCTTGCATATGATGAAGCGACGT
서열번호 2531	GenNe-3	6	GenNe-3_6	AGGATGCCCTTGCATATGATGAAGCGACGT
서열번호 2532	GenNe-3	7	GenNe-3_7	AGGATGCCCTTGCATATGATGAAGCGACGT
서열번호 2533	GenNe-3	8	GenNe-3_8	AGGATGCCCTTGCATATGATGAAGCGACGT
서열번호 2534	GenNe-3	9	GenNe-3_9	AGGATGCCCTTGCATATGATGAAGCGACGT
서열번호 2535	GenNe-3	10	GenNe-3_10	AGGATGCCCTTGCATATGATGAAGCGACGT
서열번호 2536	GenNe-3	11	GenNe-3_11	AGGATGCCCTTGCATATGATGAAGCGACGT
서열번호 2537	GenNe-4	1	GenNe-4_1	ATCAGCATAAGGCGCCGGAAGTAGCAGAAA
서열번호 2538	GenNe-4	2	GenNe-4_2	ATCAGCATAAGGCGCCGGAAGTAGCAGAAA
서열번호 2539	GenNe-4	3	GenNe-4_3	ATCAGCATAAGGCGCCGGAAGTAGCAGAAA
서열번호 2540	GenNe-4	4	GenNe-4_4	ATCAGCATAAGGCGCCGGAAGTAGCAGAAA
서열번호 2541	GenNe-4	5	GenNe-4_5	ATCAGCATAAGGCGCCGGAAGTAGCAGAAA
서열번호 2542	GenNe-4	6	GenNe-4_6	ATCAGCATAAGGCGCCGGAAGTAGCAGAAA
서열번호 2543	GenNe-4	7	GenNe-4_7	ATCAGCATAAGGCGCCGGAAGTAGCAGAAA
서열번호 2544	GenNe-4	8	GenNe-4_8	ATCAGCATAAGGCGCCGGAAGTAGCAGAAA
서열번호 2545	GenNe-4	9	GenNe-4_9	ATCAGCATAAGGCGCCGGAAGTAGCAGAAA
서열번호 2546	GenNe-4	10	GenNe-4_10	ATCAGCATAAGGCGCCGGAAGTAGCAGAAA
서열번호 2547	GenNe-4	11	GenNe-4_11	ATCAGCATAAGGCGCCGGAAGTAGCAGAAA
서열번호 2548	GenNe-5	1	GenNe-5_1	AGCATACAATCCGTCGAGTCGCTTGGTGAG
서열번호 2549	GenNe-5	2	GenNe-5_2	AGCATACAATCCGTCGAGTCGCTTGGTGAG
서열번호 2550	GenNe-5	3	GenNe-5_3	AGCATACAATCCGTCGAGTCGCTTGGTGAG
서열번호 2551	GenNe-5	4	GenNe-5_4	AGCATACAATCCGTCGAGTCGCTTGGTGAG

서열번호 2552	GenNe-5	5	GenNe-5_5	AGCATACAATCCGTCGAGTCGCTTGGTGAG
서열번호 2553	GenNe-5	6	GenNe-5_6	AGCATACAATCCGTCGAGTCGCTTGGTGAG
서열번호 2554	GenNe-5	7	GenNe-5_7	AGCATACAATCCGTCGAGTCGCTTGGTGAG
서열번호 2555	GenNe-5	8	GenNe-5_8	AGCATACAATCCGTCGAGTCGCTTGGTGAG
서열번호 2556	GenNe-5	9	GenNe-5_9	AGCATACAATCCGTCGAGTCGCTTGGTGAG
서열번호 2557	GenNe-5	10	GenNe-5_10	AGCATACAATCCGTCGAGTCGCTTGGTGAG
서열번호 2558	GenNe-5	11	GenNe-5_11	AGCATACAATCCGTCGAGTCGCTTGGTGAG
서열번호 2559	GenNe-6	1	GenNe-6_1	CTGGCGCTGCAACTTGCTGAGTTCATGAAT
서열번호 2560	GenNe-6	2	GenNe-6_2	CTGGCGCTGCAACTTGCTGAGTTCATGAAT
서열번호 2561	GenNe-6	3	GenNe-6_3	CTGGCGCTGCAACTTGCTGAGTTCATGAAT
서열번호 2562	GenNe-6	4	GenNe-6_4	CTGGCGCTGCAACTTGCTGAGTTCATGAAT
서열번호 2563	GenNe-6	5	GenNe-6_5	CTGGCGCTGCAACTTGCTGAGTTCATGAAT
서열번호 2564	GenNe-6	6	GenNe-6_6	CTGGCGCTGCAACTTGCTGAGTTCATGAAT
서열번호 2565	GenNe-6	7	GenNe-6_7	CTGGCGCTGCAACTTGCTGAGTTCATGAAT
서열번호 2566	GenNe-6	8	GenNe-6_8	CTGGCGCTGCAACTTGCTGAGTTCATGAAT
서열번호 2567	GenNe-6	9	GenNe-6_9	CTGGCGCTGCAACTTGCTGAGTTCATGAAT
서열번호 2568	GenNe-6	10	GenNe-6_10	CTGGCGCTGCAACTTGCTGAGTTCATGAAT
서열번호 2569	GenNe-6	11	GenNe-6_11	CTGGCGCTGCAACTTGCTGAGTTCATGAAT
서열번호 2570	Sula-4	1	Sula-4_1	gccccgcaccggaaacatcgctgcacgtgctgtcgaaccttcaaaagctg
서열번호 2571	Sula-4	2	Sula-4_2	gccccgcaccggaaacatcgctgcacgtgctgtcgaaccttcaaaagctg
서열번호 2572	Sula-4	3	Sula-4_3	gccccgcaccggaaacatcgctgcacgtgctgtcgaaccttcaaaagctg
서열번호 2573	Sula-4	4	Sula-4_4	gccccgcaccggaaacatcgctgcacgtgctgtcgaaccttcaaaagctg
서열번호 2574	Sula-4	5	Sula-4_5	gccccgcaccggaaacatcgctgcacgtgctgtcgaaccttcaaaagctg
서열번호 2575	Sula-4	6	Sula-4_6	gccccgcaccggaaacatcgctgcacgtgctgtcgaaccttcaaaagctg
서열번호 2576	Sula-4	7	Sula-4_7	gccccgcaccggaaacatcgctgcacgtgctgtcgaaccttcaaaagctg
서열번호 2577	Sula-4	8	Sula-4_8	gccccgcaccggaaacatcgctgcacgtgctgtcgaaccttcaaaagctg
서열번호 2578	Sula-4	9	Sula-4_9	gccccgcaccggaaacatcgctgcacgtgctgtcgaaccttcaaaagctg
서열번호 2579	Sula-4	10	Sula-4_10	gccccgcaccggaaacatcgctgcacgtgctgtcgaaccttcaaaagctg
서열번호 2580	Sula-4	11	Sula-4_11	gccccgcaccggaaacatcgctgcacgtgctgtcgaaccttcaaaagctg
서열번호 2581	Agls-15-1	1	Agls-15-1_1	atgtctggatgataaactgattggatggaccggattaaggccgatgtacgataagacctg
서열번호 2582	Agls-15-1	2	Agls-15-1_2	tgtctggatgataaactgattggatggaccggattaaggccgatgtacgataagacctgg
서열번호 2583	Agls-15-1	3	Agls-15-1_3	gtctggatgataaactgattggatggaccggattaaggccgatgtacgataagacctggg

서열번호 2584	Agls-15-1	4	Agls-15-1_4	tctggatgataaactgattggatggaccggattaaggccgatgtacgataagac ctggga
서열번호 2585	Agls-15-1	5	Agls-15-1_5	ctggatgataaactgattggatggaccggattaaggccgatgtacgataagacc tgggaa
서열번호 2586	Agls-15-1	6	Agls-15-1_6	tggatgataaactgattggatggaccggattaaggccgatgtacgataagacct gggaac
서열번호 2587	Agls-15-1	7	Agls-15-1_7	ggatgataaactgattggatggaccggattaaggccgatgtacgataagacctg ggaact
서열번호 2588	Agls-15-1	8	Agls-15-1_8	gatgataaactgattggatggaccggattaaggccgatgtacgataagacctgg gaactt
서열번호 2589	Agls-15-1	9	Agls-15-1_9	atgataaactgattggatggaccggattaaggccgatgtacgataagacctggg aacttc
서열번호 2590	Agls-15-1	10	Agls-15-1_10	tgataaactgattggatggaccggattaaggccgatgtacgataagacctggga acttca
서열번호 2591	Agls-15-1	11	Agls-15-1_11	gataaactgattggatggaccggattaaggccgatgtacgataagacctgggaa cttcat
서열번호 2592	Agls-15-2	1	Agls-15-2_1	atgtctggatgataaactgattggctggaccggattaaggccgatgtacgataa gacctg
서열번호 2593	Agls-15-2	2	Agls-15-2_2	tgtctggatgataaactgattggctggaccggattaaggccgatgtacgataag acctgg
서열번호 2594	Agls-15-2	3	Agls-15-2_3	gtctggatgataaactgattggctggaccggattaaggccgatgtacgataaga cctggg
서열번호 2595	Agls-15-2	4	Agls-15-2_4	tctggatgataaactgattggctggaccggattaaggccgatgtacgataagac ctggga
서열번호 2596	Agls-15-2	5	Agls-15-2_5	ctggatgataaactgattggctggaccggattaaggccgatgtacgataagacc tgggaa
서열번호 2597	Agls-15-2	6	Agls-15-2_6	tggatgataaactgattggctggaccggattaaggccgatgtacgataagacct gggaac
서열번호 2598	Agls-15-2	7	Agls-15-2_7	ggatgataaactgattggctggaccggattaaggccgatgtacgataagacctg ggaact
서열번호 2599	Agls-15-2	8	Agls-15-2_8	gatgataaactgattggctggaccggattaaggccgatgtacgataagacctgg gaactt
서열번호 2600	Agls-15-2	9	Agls-15-2_9	atgataaactgattggctggaccggattaaggccgatgtacgataagacctggg aacttc
서열번호 2601	Agls-15-2	10	Agls-15-2_10	tgataaactgattggctggaccggattaaggccgatgtacgataagacctggga acttca
서열번호 2602	Agls-15-2	11	Agls-15-2_11	gataaactgattggctggaccggattaaggccgatgtacgataagacctgggaa cttcat
서열번호 2603	Agls-17-1	1	Agls-17-1_1	ATGAATATTATGCCGATATCTGAATCACAATTATCAGATTGGCTAGCATTAAGA AGCTTA
서열번호 2604	Agls-17-1	2	Agls-17-1_2	TGAATATTATGCCGATATCTGAATCACAATTATCAGATTGGCTAGCATTAAGAA GCTTAC
서열번호 2605	Agls-17-1	3	Agls-17-1_3	GAATATTATGCCGATATCTGAATCACAATTATCAGATTGGCTAGCATTAAGAAG CTTACT
서열번호 2606	Agls-17-1	4	Agls-17-1_4	AATATTATGCCGATATCTGAATCACAATTATCAGATTGGCTAGCATTAAGAAGC TTACTC
서열번호 2607	Agls-17-1	5	Agls-17-1_5	ATATTATGCCGATATCTGAATCACAATTATCAGATTGGCTAGCATTAAGAAGCT TACTCT
서열번호 2608	Agls-17-1	6	Agls-17-1_6	TATTATGCCGATATCTGAATCACAATTATCAGATTGGCTAGCATTAAGAAGCTT ACTCTG
서열번호 2609	Agls-17-1	7	Agls-17-1_7	ATTATGCCGATATCTGAATCACAATTATCAGATTGGCTAGCATTAAGAAGCTTA CTCTGG
서열번호 2610	Agls-17-1	8	Agls-17-1_8	TTATGCCGATATCTGAATCACAATTATCAGATTGGCTAGCATTAAGAAGCTTAC TCTGGC
서열번호 2611	Agls-17-1	9	Agls-17-1_9	TATGCCGATATCTGAATCACAATTATCAGATTGGCTAGCATTAAGAAGCTTACT CTGGCC
서열번호 2612	Agls-17-1	10	Agls-17-1_10	ATGCCGATATCTGAATCACAATTATCAGATTGGCTAGCATTAAGAAGCTTACTC TGGCCT
서열번호 2613	Agls-17-1	11	Agls-17-1_11	TGCCGATATCTGAATCACAATTATCAGATTGGCTAGCATTAAGAAGCTTACTCT GGCCTG

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서열번호	TargetID	BPStart	프로브 명칭	염기서열
서열번호 2614	Agls-17-2	1	Agls-17-2_1	ATGAATATTTTGCCGATATCTGAATCACAATTATCAGATTGGCTAGCATTAAGAAGCTTA
서열번호 2615	Agls-17-2	2	Agls-17-2_2	TGAATATTTTGCCGATATCTGAATCACAATTATCAGATTGGCTAGCATTAAGAAGCTTAC
서열번호 2616	Agls-17-2	3	Agls-17-2_3	GAATATTTTGCCGATATCTGAATCACAATTATCAGATTGGCTAGCATTAAGAAGCTTACT
서열번호 2617	Agls-17-2	4	Agls-17-2_4	AATATTTTGCCGATATCTGAATCACAATTATCAGATTGGCTAGCATTAAGAAGCTTACTC
서열번호 2618	Agls-17-2	5	Agls-17-2_5	ATATTTTGCCGATATCTGAATCACAATTATCAGATTGGCTAGCATTAAGAAGCTTACTCT
서열번호 2619	Agls-17-2	6	Agls-17-2_6	TATTTTGCCGATATCTGAATCACAATTATCAGATTGGCTAGCATTAAGAAGCTTACTCTG
서열번호 2620	Agls-17-2	7	Agls-17-2_7	ATTTTGCCGATATCTGAATCACAATTATCAGATTGGCTAGCATTAAGAAGCTTACTCTGG
서열번호 2621	Agls-17-2	8	Agls-17-2_8	TTTTGCCGATATCTGAATCACAATTATCAGATTGGCTAGCATTAAGAAGCTTACTCTGGC
서열번호 2622	Agls-17-2	9	Agls-17-2_9	TTTGCCGATATCTGAATCACAATTATCAGATTGGCTAGCATTAAGAAGCTTACTCTGGCC
서열번호 2623	Agls-17-2	10	Agls-17-2_10	TTGCCGATATCTGAATCACAATTATCAGATTGGCTAGCATTAAGAAGCTTACTCTGGCCT
서열번호 2624	Agls-17-2	11	Agls-17-2_11	TGCCGATATCTGAATCACAATTATCAGATTGGCTAGCATTAAGAAGCTTACTCTGGCCTG
서열번호 2625	Sula-7	1	Sula-7_1	gcgctcaaggcagatggcattcccgtctcgctcgacagttatcaacccgc
서열번호 2626	Sula-7	2	Sula-7_2	gcgctcaaggcagatggcattcccgtctcgctcgacagttatcaacccgc
서열번호 2627	Sula-7	3	Sula-7_3	gcgctcaaggcagatggcattcccgtctcgctcgacagttatcaacccgc
서열번호 2628	Sula-7	4	Sula-7_4	gcgctcaaggcagatggcattcccgtctcgctcgacagttatcaacccgc
서열번호 2629	Sula-7	5	Sula-7_5	gcgctcaaggcagatggcattcccgtctcgctcgacagttatcaacccgc
서열번호 2630	Sula-7	6	Sula-7_6	gcgctcaaggcagatggcattcccgtctcgctcgacagttatcaacccgc
서열번호 2631	Sula-7	7	Sula-7_7	gcgctcaaggcagatggcattcccgtctcgctcgacagttatcaacccgc
서열번호 2632	Sula-7	8	Sula-7_8	gcgctcaaggcagatggcattcccgtctcgctcgacagttatcaacccgc
서열번호 2633	Sula-7	9	Sula-7_9	gcgctcaaggcagatggcattcccgtctcgctcgacagttatcaacccgc
서열번호 2634	Sula-7	10	Sula-7_10	gcgctcaaggcagatggcattcccgtctcgctcgacagttatcaacccgc
서열번호 2635	Sula-7	11	Sula-7_11	gcgctcaaggcagatggcattcccgtctcgctcgacagttatcaacccgc
서열번호 2636	Sula-8-1	1	Sula-8-1_1	caccctagctcgctcatattccctcattttggttttggacaagcttttac
서열번호 2637	Sula-8-1	2	Sula-8-1_2	caccctagctcgctcatattccctcattttggttttggacaagcttttac
서열번호 2638	Sula-8-1	3	Sula-8-1_3	caccctagctcgctcatattccctcattttggttttggacaagcttttac
서열번호 2639	Sula-8-1	4	Sula-8-1_4	caccctagctcgctcatattccctcattttggttttggacaagcttttac
서열번호 2640	Sula-8-1	5	Sula-8-1_5	caccctagctcgctcatattccctcattttggttttggacaagcttttac
서열번호 2641	Sula-8-1	6	Sula-8-1_6	caccctagctcgctcatattccctcattttggttttggacaagcttttac
서열번호 2642	Sula-8-1	7	Sula-8-1_7	caccctagctcgctcatattccctcattttggttttggacaagcttttac
서열번호 2643	Sula-8-1	8	Sula-8-1_8	caccctagctcgctcatattccctcattttggttttggacaagcttttac

서열번호 2644	Sula-8-1	9	Sula-8-1_9	caccctagctcgctcatattccctcattttggttttggacaagcttttac
서열번호 2645	Sula-8-1	10	Sula-8-1_10	caccctagctcgctcatattccctcattttggttttggacaagcttttac
서열번호 2646	Sula-8-1	11	Sula-8-1_11	caccctagctcgctcatattccctcattttggttttggacaagcttttac
서열번호 2647	Sula-8-2	1	Sula-8-2_1	caccctagctcgctcatattccctcattttggttttggtcaagcttttac
서열번호 2648	Sula-8-2	2	Sula-8-2_2	caccctagctcgctcatattccctcattttggttttggtcaagcttttac
서열번호 2649	Sula-8-2	3	Sula-8-2_3	caccctagctcgctcatattccctcattttggttttggtcaagcttttac
서열번호 2650	Sula-8-2	4	Sula-8-2_4	caccctagctcgctcatattccctcattttggttttggtcaagcttttac
서열번호 2651	Sula-8-2	5	Sula-8-2_5	caccctagctcgctcatattccctcattttggttttggtcaagcttttac
서열번호 2652	Sula-8-2	6	Sula-8-2_6	caccctagctcgctcatattccctcattttggttttggtcaagcttttac
서열번호 2653	Sula-8-2	7	Sula-8-2_7	caccctagctcgctcatattccctcattttggttttggtcaagcttttac
서열번호 2654	Sula-8-2	8	Sula-8-2_8	caccctagctcgctcatattccctcattttggttttggtcaagcttttac
서열번호 2655	Sula-8-2	9	Sula-8-2_9	caccctagctcgctcatattccctcattttggttttggtcaagcttttac
서열번호 2656	Sula-8-2	10	Sula-8-2_10	caccctagctcgctcatattccctcattttggttttggtcaagcttttac
서열번호 2657	Sula-8-2	11	Sula-8-2_11	caccctagctcgctcatattccctcattttggttttggtcaagcttttac
서열번호 2658	Sula-8-3	1	Sula-8-3_1	caccctagctcgctcatatttcctcattttggttttggacaagcttttac
서열번호 2659	Sula-8-3	2	Sula-8-3_2	caccctagctcgctcatatttcctcattttggttttggacaagcttttac
서열번호 2660	Sula-8-3	3	Sula-8-3_3	caccctagctcgctcatatttcctcattttggttttggacaagcttttac
서열번호 2661	Sula-8-3	4	Sula-8-3_4	caccctagctcgctcatatttcctcattttggttttggacaagcttttac
서열번호 2662	Sula-8-3	5	Sula-8-3_5	caccctagctcgctcatatttcctcattttggttttggacaagcttttac
서열번호 2663	Sula-8-3	6	Sula-8-3_6	caccctagctcgctcatatttcctcattttggttttggacaagcttttac
서열번호 2664	Sula-8-3	7	Sula-8-3_7	caccctagctcgctcatatttcctcattttggttttggacaagcttttac
서열번호 2665	Sula-8-3	8	Sula-8-3_8	caccctagctcgctcatatttcctcattttggttttggacaagcttttac
서열번호 2666	Sula-8-3	9	Sula-8-3_9	caccctagctcgctcatatttcctcattttggttttggacaagcttttac
서열번호 2667	Sula-8-3	10	Sula-8-3_10	caccctagctcgctcatatttcctcattttggttttggacaagcttttac
서열번호 2668	Sula-8-3	11	Sula-8-3_11	caccctagctcgctcatatttcctcattttggttttggacaagcttttac
서열번호 2669	Sula-8-4	1	Sula-8-4_1	caccctagctcgctcatatttcctcattttggttttggtcaagcttttac
서열번호 2670	Sula-8-4	2	Sula-8-4_2	caccctagctcgctcatatttcctcattttggttttggtcaagcttttac
서열번호 2671	Sula-8-4	3	Sula-8-4_3	caccctagctcgctcatatttcctcattttggttttggtcaagcttttac
서열번호 2672	Sula-8-4	4	Sula-8-4_4	caccctagctcgctcatatttcctcattttggttttggtcaagcttttac
서열번호 2673	Sula-8-4	5	Sula-8-4_5	caccctagctcgctcatatttcctcattttggttttggtcaagcttttac
서열번호 2674	Sula-8-4	6	Sula-8-4_6	caccctagctcgctcatatttcctcattttggttttggtcaagcttttac
서열번호 2675	Sula-8-4	7	Sula-8-4_7	caccctagctcgctcatatttcctcattttggttttggtcaagcttttac

서열번호 2676	Sula-8-4	8	Sula-8-4_8	caccctagctcgctcatatttcctcattttggttttggtcaagcttttac
서열번호 2677	Sula-8-4	9	Sula-8-4_9	caccctagctcgctcatatttcctcattttggttttggtcaagcttttac
서열번호 2678	Sula-8-4	10	Sula-8-4_10	caccctagctcgctcatatttcctcattttggttttggtcaagcttttac
서열번호 2679	Sula-8-4	11	Sula-8-4_11	caccctagctcgctcatatttcctcattttggttttggtcaagcttttac
서열번호 2680	Sula-8-5	1	Sula-8-5_1	caccctagctcgctcatcttccctcattttggttttggacaagcttttac
서열번호 2681	Sula-8-5	2	Sula-8-5_2	caccctagctcgctcatcttccctcattttggttttggacaagcttttac
서열번호 2682	Sula-8-5	3	Sula-8-5_3	caccctagctcgctcatcttccctcattttggttttggacaagcttttac
서열번호 2683	Sula-8-5	4	Sula-8-5_4	caccctagctcgctcatcttccctcattttggttttggacaagcttttac
서열번호 2684	Sula-8-5	5	Sula-8-5_5	caccctagctcgctcatcttccctcattttggttttggacaagcttttac
서열번호 2685	Sula-8-5	6	Sula-8-5_6	caccctagctcgctcatcttccctcattttggttttggacaagcttttac
서열번호 2686	Sula-8-5	7	Sula-8-5_7	caccctagctcgctcatcttccctcattttggttttggacaagcttttac
서열번호 2687	Sula-8-5	8	Sula-8-5_8	caccctagctcgctcatcttccctcattttggttttggacaagcttttac
서열번호 2688	Sula-8-5	9	Sula-8-5_9	caccctagctcgctcatcttccctcattttggttttggacaagcttttac
서열번호 2689	Sula-8-5	10	Sula-8-5_10	caccctagctcgctcatcttccctcattttggttttggacaagcttttac
서열번호 2690	Sula-8-5	11	Sula-8-5_11	caccctagctcgctcatcttccctcattttggttttggacaagcttttac
서열번호 2691	Sula-8-6	1	Sula-8-6_1	caccctagctcgctcatcttccctcattttggttttggtcaagcttttac
서열번호 2692	Sula-8-6	2	Sula-8-6_2	caccctagctcgctcatcttccctcattttggttttggtcaagcttttac
서열번호 2693	Sula-8-6	3	Sula-8-6_3	caccctagctcgctcatcttccctcattttggttttggtcaagcttttac
서열번호 2694	Sula-8-6	4	Sula-8-6_4	caccctagctcgctcatcttccctcattttggttttggtcaagcttttac
서열번호 2695	Sula-8-6	5	Sula-8-6_5	caccctagctcgctcatcttccctcattttggttttggtcaagcttttac
서열번호 2696	Sula-8-6	6	Sula-8-6_6	caccctagctcgctcatcttccctcattttggttttggtcaagcttttac
서열번호 2697	Sula-8-6	7	Sula-8-6_7	caccctagctcgctcatcttccctcattttggttttggtcaagcttttac
서열번호 2698	Sula-8-6	8	Sula-8-6_8	caccctagctcgctcatcttccctcattttggttttggtcaagcttttac
서열번호 2699	Sula-8-6	9	Sula-8-6_9	caccctagctcgctcatcttccctcattttggttttggtcaagcttttac
서열번호 2700	Sula-8-6	10	Sula-8-6_10	caccctagctcgctcatcttccctcattttggttttggtcaagcttttac
서열번호 2701	Sula-8-6	11	Sula-8-6_11	caccctagctcgctcatcttccctcattttggttttggtcaagcttttac
서열번호 2702	Sula-8-7	1	Sula-8-7_1	caccctagctcgctcatctttcctcattttggttttggacaagcttttac
서열번호 2703	Sula-8-7	2	Sula-8-7_2	caccctagctcgctcatctttcctcattttggttttggacaagcttttac
서열번호 2704	Sula-8-7	3	Sula-8-7_3	caccctagctcgctcatctttcctcattttggttttggacaagcttttac
서열번호 2705	Sula-8-7	4	Sula-8-7_4	caccctagctcgctcatctttcctcattttggttttggacaagcttttac
서열번호 2706	Sula-8-7	5	Sula-8-7_5	caccctagctcgctcatctttcctcattttggttttggacaagcttttac
서열번호 2707	Sula-8-7	6	Sula-8-7_6	caccctagctcgctcatctttcctcattttggttttggacaagcttttac

서열번호 2708	Sula-8-7	7	Sula-8-7_7	caccctagctcgctcatctttcctcattttggttttggacaagcttttac
서열번호 2709	Sula-8-7	8	Sula-8-7_8	caccctagctcgctcatctttcctcattttggttttggacaagcttttac
서열번호 2710	Sula-8-7	9	Sula-8-7_9	caccctagctcgctcatctttcctcattttggttttggacaagcttttac
서열번호 2711	Sula-8-7	10	Sula-8-7_10	caccctagctcgctcatctttcctcattttggttttggacaagcttttac
서열번호 2712	Sula-8-7	11	Sula-8-7_11	caccctagctcgctcatctttcctcattttggttttggacaagcttttac
서열번호 2713	Sula-8-8	1	Sula-8-8_1	caccctagctcgctcatctttcctcattttggttttggtcaagcttttac
서열번호 2714	Sula-8-8	2	Sula-8-8_2	caccctagctcgctcatctttcctcattttggttttggtcaagcttttac
서열번호 2715	Sula-8-8	3	Sula-8-8_3	caccctagctcgctcatctttcctcattttggttttggtcaagcttttac
서열번호 2716	Sula-8-8	4	Sula-8-8_4	caccctagctcgctcatctttcctcattttggttttggtcaagcttttac
서열번호 2717	Sula-8-8	5	Sula-8-8_5	caccctagctcgctcatctttcctcattttggttttggtcaagcttttac
서열번호 2718	Sula-8-8	6	Sula-8-8_6	caccctagctcgctcatctttcctcattttggttttggtcaagcttttac
서열번호 2719	Sula-8-8	7	Sula-8-8_7	caccctagctcgctcatctttcctcattttggttttggtcaagcttttac
서열번호 2720	Sula-8-8	8	Sula-8-8_8	caccctagctcgctcatctttcctcattttggttttggtcaagcttttac
서열번호 2721	Sula-8-8	9	Sula-8-8_9	caccctagctcgctcatctttcctcattttggttttggtcaagcttttac
서열번호 2722	Sula-8-8	10	Sula-8-8_10	caccctagctcgctcatctttcctcattttggttttggtcaagcttttac
서열번호 2723	Sula-8-8	11	Sula-8-8_11	caccctagctcgctcatctttcctcattttggttttggtcaagcttttac

[0068] 마이크로어레이를 수행하기 위하여, 실시예 1에서 선별된 각 238개의 항생제 내성 대장균, 항생제 내성 살모넬라 엔테리티디스, 항생제 내성 포도상구균의 gDNA를 GenElute™ Bacterial Genomic extraction kit (Sigma-Aldrich, USA)를 이용하여 추출하였다. 각 균주로부터 추출된 gDNA는 ND-2000 spectrophotometer (Thermo scientific)를 이용하여 농도를 측정하였으며, DNA 겔 전기영동을 통해 gDNA의 퀄리티 컨트롤을 확인하였다.

[0069] 각 50 ng 농도의 항생제 내성 균주의 gDNA를 사용하여, Genome Plex Complete Whole Genome Amplification kit (Sigma, USA)로 증폭하였다. 증폭된 시료 중 2ug으로 Genomic DNA Enzymatic Labeling Kit (Agilent)를 사용하여 Cy3로 라벨하고 ND-2000 spectrophotometer (Thermo scientific)를 사용하여 라벨링 효율을 측정하였다. 라벨된 시료 중 1.3ug을 사용하여 Agilent Custom CGH 마이크로어레이에 혼성화 (Oligo aCGH Hybridization Kit, Agilent)을 실시하였다. 마지막으로 DNA microarray scanner B (Agilent, USA)를 이용하여 DNA 마이크로어레이를 스캔하고 데이터 분석 S/W인 GeneSpring GX 7.3 (Agilent, USA)을 이용하여 표준화(normalization)을 수행하여, 항생제 내성균의 유전자형(genotype)을 분석하였다.

[0070] 본 발명의 마이크로어레이를 이용하여 개의 항생제 내성 대장균, 항생제 내성 살모넬라 엔테리티디스 및 항생제 내성 포도상구균을 분석한 결과를 각각 도 1내지 3에 나타내었으며, 상기 개의 항생제 내성 대장균, 항생제 내성 살모넬라 엔테리티디스 및 항생제 내성 포도상구균의 표현형을 유추할 수 있는 프로브를 각각 도 4 내지 도 6에 나타내었다. 도 1 내지 3의 중앙에 나타나는 박스는 유전자의 검출 강도를 나타내는 것으로 전체강도의 median 50%를 나타낸다.

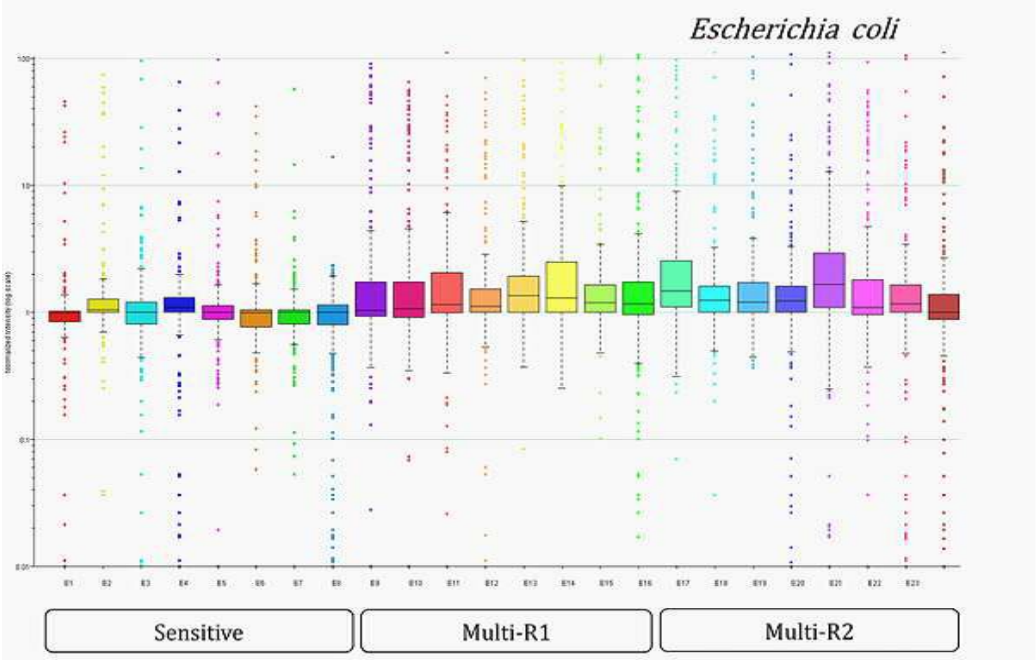
[0071] 도 1 내지 3에 나타낸 바와 같이, 각 균주의 sensitive 그룹에 비해 두 개의 Multi-R1, Multi-R2그룹 모두에서 유의성 있게 높은 값이 나타나는 것을 확인하였다. 상기 실험 결과를 통하여, 본 발명에서 제조한 마이크로어레이를 이용하여 항생제 내성균을 검출할 수 있음을 확인하였다.

[0072] 또한, 도 4 내지 6에 나타낸 바와 같이, 항생제 내성 균주의 표현형과 유전자형을 비교 분석한 결과, 대장균의 경우 8개, 살모넬라 엔테리티디스의 경우 5개, 포도상구균의 경우 2개의 항생제에 대하여 항생제 내성 표현형을

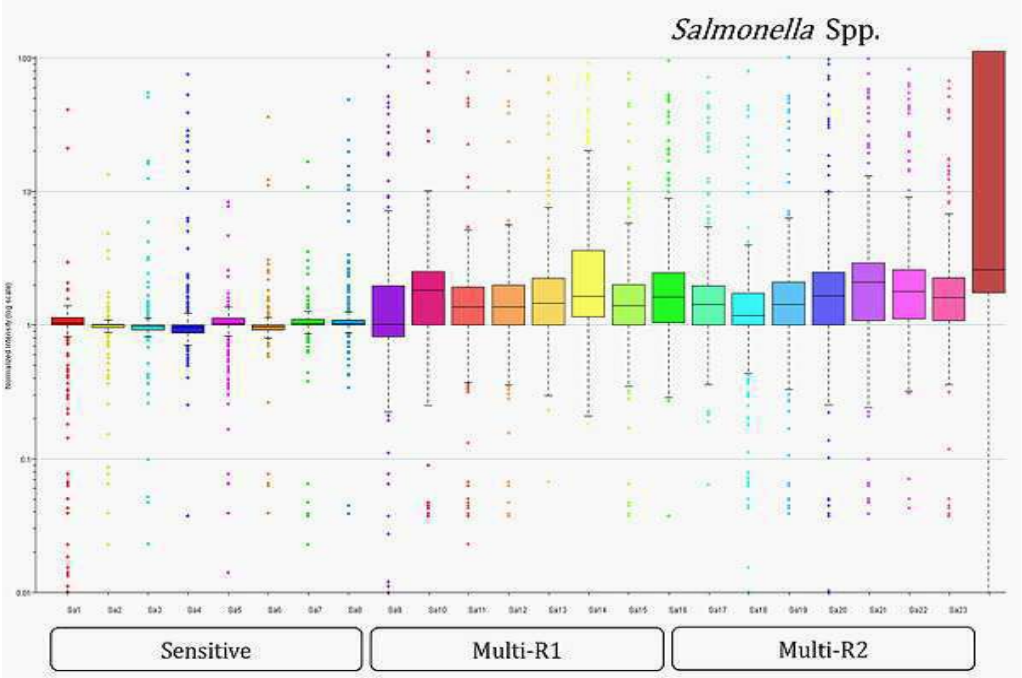
예측할 수 있는 프로브를 선별하였다.

도면

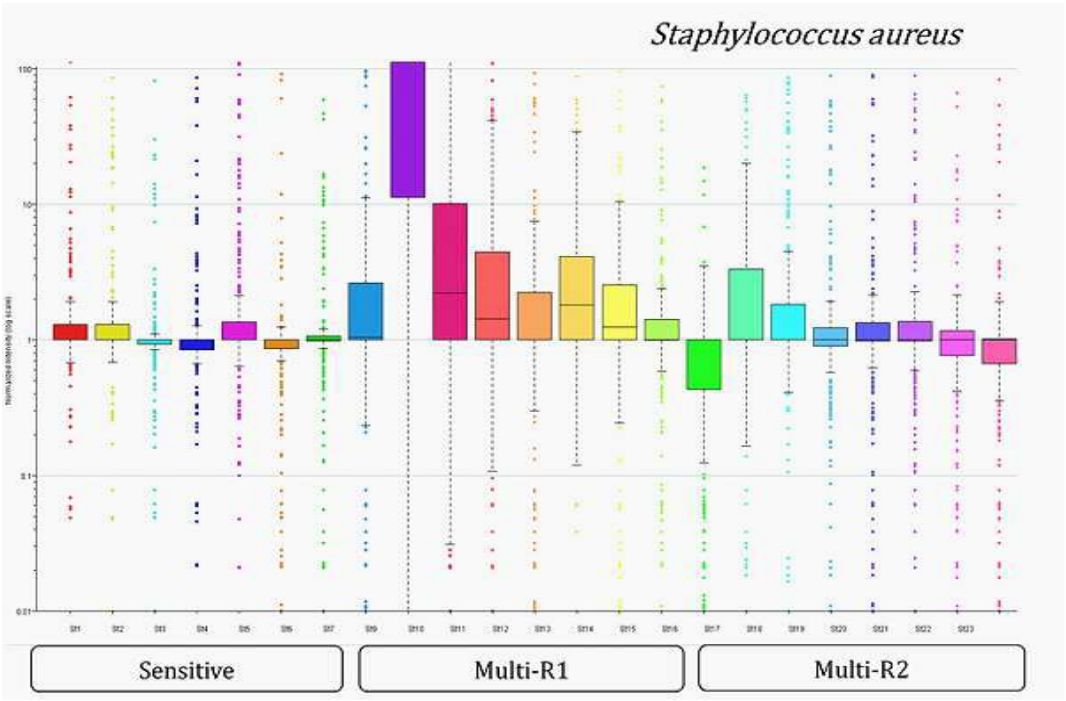
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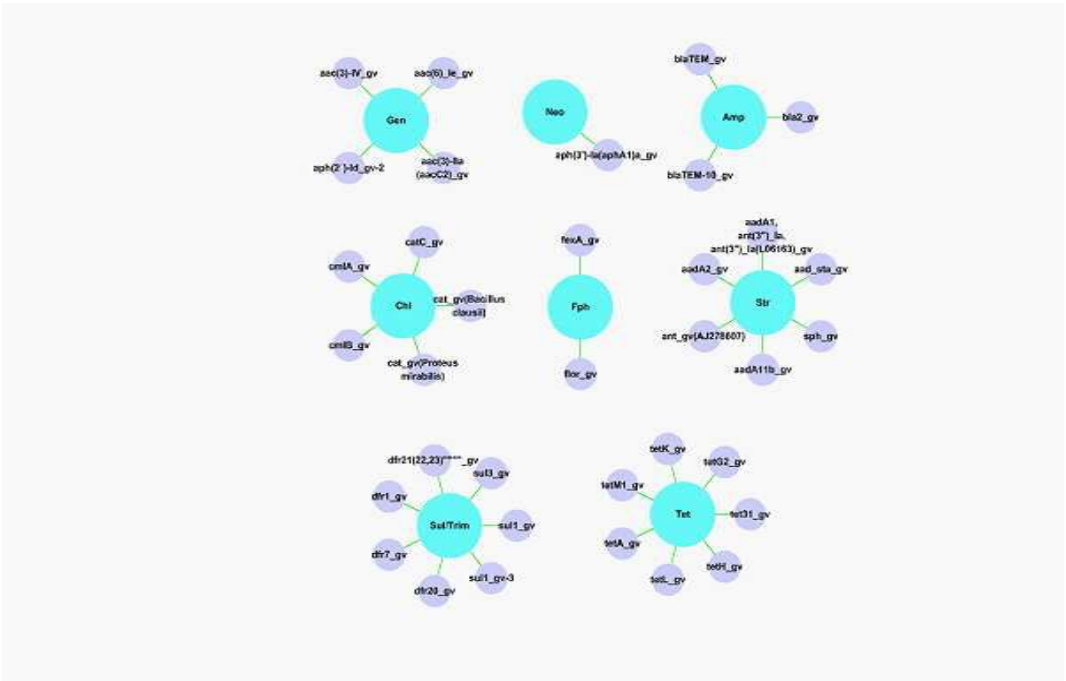
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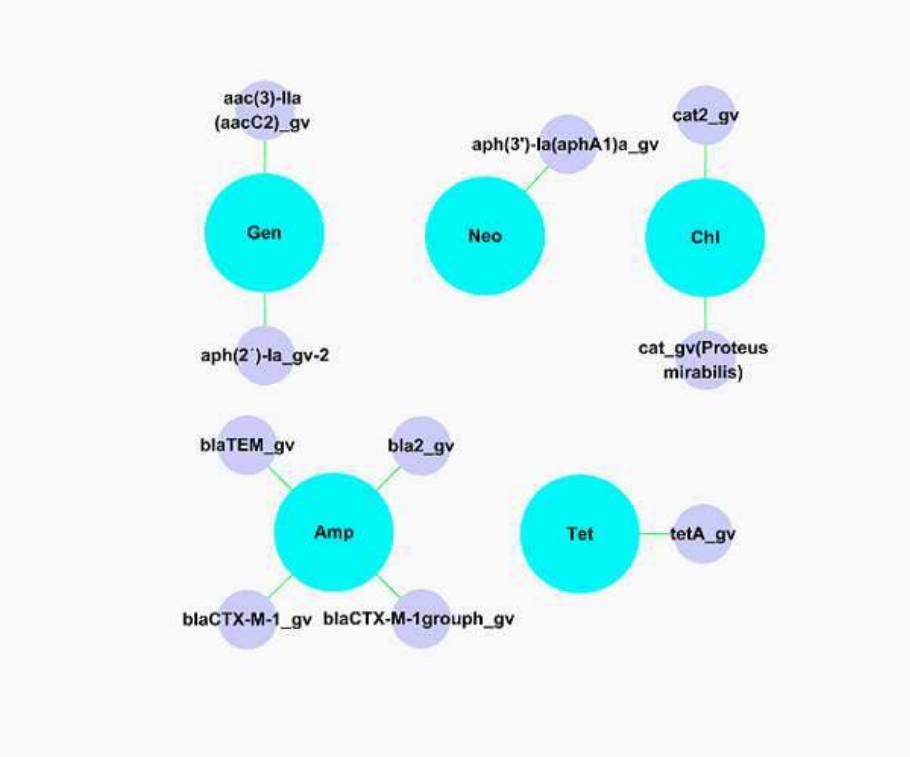
도면3


Staphylococcus aureus
Sensitive
Multi-R1
Multi-R2

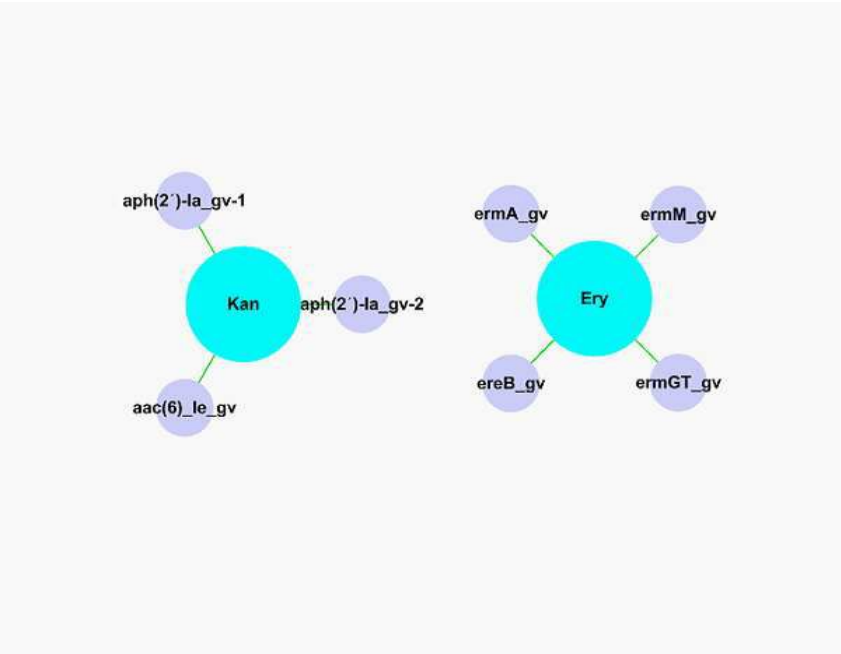
도면4


Gen
Neo
Amp
Cbl
Fph
Str
Sul/Trim
Tet

도면5



도면6



서 열 목 록

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<120> Microarray for detection of antibiotic resistant microbe and method for analyzing antibiotic resistant microbe using the same

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<400> 1870

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<400> 1871

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<220><223> Probe1872

<400> 1872

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<400> 1886

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<210> 1890

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<210> 1892

<211> 60

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<400> 1898

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<400> 1899

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<210> 1900

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<400> 1900

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<400> 1901

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<400> 1903

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<210> 1904

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<210> 1905

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<210> 1908

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<400> 1908

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<210> 1909

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<210> 1910

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<400> 1912

aaaataacga tgaattattg gaaaagtata tcgcaggaga accaatcagc cgggaaaaac 60

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<220><223> Probe1913

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aaataacgat gaattattgg aaaagtatat cgcaggagaa ccaatcagcc gggaaaaact 60

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<220><223> Probe1914

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<210> 1915

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<210> 1916

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<210> 1921

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<210> 1922

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<210> 1924

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<210> 1930

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<210> 1931

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<400> 1931

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<210> 1932

<211> 60

<212> DNA

<213> Artificial Sequence

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<210> 1933

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<210> 1934

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<220><223> Probe1935

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<220><223> Probe1942

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<210> 1943

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<210> 1945

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<210> 1946

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<210> 1947

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<210> 1948

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<210> 1949

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<210> 1951

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<220><223> Probe1951

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<210> 1952

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<210> 1953

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<210> 1956

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<210> 1957

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<210> 1958

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<220><223> Probe1963

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<220><223> Probe1966

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<210> 1967

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<212> DNA

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<220><223> Probe1967

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