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(54) Title: METHOD OF DETECTING TUMOUR RECURRENCE

(57) Abstract: The invention relates to subject-specific methods for detecting recurrence of tumours based on an understanding of the clonal/subclonal mutation profile of the subject's tumour and detection of the mutations in their cell-free DNA (cfDNA), typically by multiplex PCR of tumour mutations such as single nucleotide variants (SNVs).

METHOD OF DETECTING TUMOUR RECURRENCE

Field of the Invention

The present invention relates to a subject- specific method for detecting recurrence of a tumour in a subject.

Background to the Invention

Cancer is a leading cause of death worldwide, with lung cancer being the leading cause of cancer-related mortality. Non-small cell lung cancer (NSCLC) is the most common histological subtype, accounting for 85% to 90% of lung cancer cases. The majority of patients with NSCLC present with locally advanced or metastatic disease and have a poor prognosis. Even if identified at a resectable stage, up to 30% to 50% of patients will experience disease relapse in the post-operative setting.

Up to 40% of patients who undergo surgical resection of a non-small cell lung cancer, experience relapse of their cancer. Currently some patients who undergo surgery are offered postsurgical (adjuvant) chemotherapy or radiotherapy to reduce the risk of their lung cancer coming back by 5-10%. This treatment is offered based on whether a patient has pathological features consistent with an aggressive tumour (i.e. a large tumour, lymph gland involvement) and whether a patient is fit enough to receive chemotherapy treatment.

Following chemotherapy patients are put on "surveillance". They return to clinic every 3-6 months to be assessed clinically for signs of lung cancer relapse and they also receive a chest X-ray or CT scan. If there are imaging or clinical features consistent with relapse of their lung cancer, they will be formally investigated for relapse. If relapsed lung cancer is confirmed treatment depends on where the relapsed lung cancer has spread to. If the lung cancer has relapsed in a single site, then "radical" treatment with radiotherapy or surgery can be carried out to try to achieve a cure for the patient. If the cancer relapse in multiple sites, then treatment with chemotherapy is usually offered and patients are unable to be cured. If this is the case, then prognosis is usually limited to a year to 18 months.

Cell free DNA (cfDNA) can be detected in the plasma and serum of patients with advanced cancer. Multiple approaches to cfDNA profiling are in the process of being established as clinical diagnostic tools. However, in early-stage lung cancer, approaches to

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cfDNA profiling are less successful and typically use generic gene panels to interrogate a plasma sample.

Summary of the Invention

The present invention describes a "bespoke" approach to tracking tumour recurrence and the nature of the metastatic subclone(s) in a non-invasive fashion by detecting patient-specific clonal and/or subclonal mutations in the cfDNA from the patient's plasma. Through modelling of a patient's tumour "phylogenetic tree" the method generates a bespoke biomarker profile unique to an individual patient. Clonal mutations, by their very nature, are present in every cell within a tumour. By incorporating clonal mutations into a panel this approach increases the sensitivity of plasma variant detection. Tracking a plasma profile of a patient's tumour "phylogenetic tree" allows identification of the clone/subclone(s) within a tumour that is/are responsible for seeding relapsed disease, opening opportunities for interventional therapeutic opportunities before macroscopic disease is evident on imaging and monitoring response to such therapies by tracking the decline of clonal and subclonal variants.

Thus, by tracking patient-specific variants and by selecting variants that represent clonal variant from the trunk of a patient's phylogenetic tree, rather than relying on a generic panel of markers that might or might not be present in any individual patient, this methodology advantageously increases the sensitivity and specificity by which plasma variants are identified.

Thus, the invention relates to a method for cfDNA profiling in a tumour, for example lung cancer, involving tracking a patient's disease progression and/or recurrence to aid robust treatment regimens. This approach finds particular utility in tracking recurrence of lung cancer, especially non-small cell lung cancer, after surgical resection, in the adjuvant setting. Early detection of recurrence using this method could prompt initiation of therapy (including immunotherapy) or change in therapy, using the same approach to track the response of such residual disease to therapy. This approach will also have utility in cancers other than those in the lung and/or that have been removed in other ways.

In a first aspect of the invention, there is provided a subject-specific method for determining clonality of mutations in a lung tumour in a subject, comprising:

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a) sequencing all of the genome or exome of a lung tumour of a subject to define all clonal and subclonal mutations in said tumour, wherein defining the clonal and subclonal mutations comprises:

1) calculating an observed cancer cell fraction (CCF) of each mutation (obsCCF) and a phylogenetic CCF of that mutation (phyloCCF);

2) timing each clonal mutation using the genome with at least two copies of a major allele preliminarily classified as early if a mutation copy number for the mutation is greater than 1 and as late if the mutation copy number for the mutation is less than or equal to 1;

3) performing temporal analysis comprising (a) classifying early mutations across the majority of tumor regions as early clonal mutations and (b) classifying late mutations across majority of tumor regions as late clonal mutations, and the remaining mutations as untimed mutations;

b) clustering the clonal and/or subclonal mutations;

c) performing phylogenetic analysis on mutations assigned thereto, wherein the phylogenetic analysis comprises assembling the mutations into a phylogenetic tree defining the clonal and subclonal mutation profile of the tumour;

d) analysing DNA included in a sample obtained from the subject subsequent to the tumour removal using a set of reagents capable of detecting at least one mutation characteristic of a trunk of the phylogenetic tree and at least one mutation characteristic of each branch of the phylogenetic tree.

In another aspect of the present invention there is provided a subject-specific method for detecting recurrence of a tumour in a subject, comprising:

(a) sequencing all or part of the genome or exome of a tumour of a subject to define clonal and/or subclonal mutations in said tumour;

(b) defining a set of reagents that will detect the presence of DNA from said tumour via the presence of said clonal and/or subclonal mutations;

using said set of reagents, analysing a sample comprising DNA from said tumour obtained from the subject subsequent to the tumour removal to determine whether or not said tumour has recurred by detection of said clonal and/or subclonal mutations in the sample.

In a further aspect of the invention, there is provided a subject-specific method of defining a set of reagents to detect recurrence of a tumour in the subject comprising:

(a) sequencing all or part of the genome or exome of a tumour of the subject;

(b) defining clonal and/or subclonal mutations in said tumour; and

defining a set of reagents that will detect the presence of said clonal and/or subclonal mutations in a sample from said subject.

In another aspect of the invention, there is provided a subject-specific method for detecting recurrence of a tumour in a subject comprising analysing, with a subject-specific set of reagents that will detect the presence of clonal and/or subclonal mutations from said tumour, DNA in a sample obtained from the subject subsequent to removal of a tumour to determine whether or not said tumour has recurred by detection of said clonal and/or subclonal mutations from the tumour in the sample.

In yet another aspect of the invention, there is provided a set of subject-specific detection reagents for the detection of clonal and/or subclonal mutations from a tumour in the cfDNA of the subject, obtained or obtainable by a method of the invention.

In a further aspect of the invention there is provided, a method of treating a subject comprising performing a method of the invention wherein a treatment is chosen for the patient based on the clonal and/or subclonal mutations detected in the sample from the subject.

Brief description of the Figures

Figure 1. Workflow diagram demonstrating target selection, assay design and plasma PCR.

Figure 2. Measured cfDNA concentration, tumour stage. Each data point represents one plasma sample.

Figure 3. Validation of multiplex PCR reactions using DNA from patient tumour samples. Samples that showed good correlation between tissue VAF measurements. Each sample is shown in a separate box, and the VAF data points are coloured by tissue subsection.

Figure 4. SNVs detected and not detected in plasma for each sample.

Figure 5. SNV detection (left) and sample detection (right) in plasma by tumour stage.

Figure 6. Plasma VAF as a function of tumour stage and SNV clonality.

Figure 7. Number of SNVs detected in plasma by histological type.

Figure 8. Number of SNVs detected in plasma from each sample as a function of the cfDNA input amount.

Figure 9. Detection of SNVs in plasma was correlated with their VAF in tumour.

Figure 10A. Depth of read histogram as a function of the resulting call.

Figure 10B. Estimated limit of detection of the assays as a function of the resulting call. In each panel, the left group shows the assays that did not detect the expected plasma SNV, and the right group shows the assay that detected the expected plasma SNV.

Figure 11A. Assessment of SNVs detected in plasma for recapitulating tumour phylogeny trees from cfDNA data. Samples with more than 10 plasma SNVs are shown. Number of branches detected in plasma with valid estimated cancer cell fraction.

Figure 11B. Assessment of SNVs detected in plasma for recapitulating tumour phylogeny trees from cfDNA data. Samples with more than 10 plasma SNVs are shown. Percentage of pairs of SNVs for which their plasma VAF values follow the tumour phylogeny tree structure.

Figure 12. Top panel – total number of SNVs targeted by primers, per sample, sorted by driver category. Bottom panel – total number of SNVs targeted by primers, per sample, sorted by clonality.

Figure 13. Bar chart demonstrating the number of clonal and subclonal variants detected per patient sorted based on histological subtype, squamous cell carcinoma (LUSC) and adenocarcinoma (LUAD). Filled bars demonstrate detected variants, unfilled bars demonstrate the number of variants probed for.

Figure 14. Detected lung adenocarcinomas (LUADs) are more mitotically active (Figure 14A and Figure 14B), and genomically unstable (Figure 14C) that undetected LUADs. Detected LUADs are largely the solid histological subtype (Figure 14D).

Figure 15. Clonal SNVs have higher plasma variant allele frequencies than subclonal SNVs (Figures 15A and 15B), mean clonal variant allele frequency (per patient) correlates with tumour volume (Figure 15C) (Spearman's Rank $R_S(42) = 0.60$, $P<0.001$). PET CT from outlier in Figure 15C demonstrating only a rim of PET avid tumour (Figure 15D).

Figure 16. The mean normalized variant allele frequency (VAF) of called mutations correlates with mutation copy number as determined by whole exome sequencing, the mean normalized VAF of called mutations correlates with mean subclonal cluster Cancer Cell Fraction taken from all involved regions as identified by multi-region sequencing (an inference of subclone size).

Figure 17. Time course graphs demonstrating detection of clonal SNVs in plasma in advance of clinical relapse in patients with lung squamous cell carcinomas (LUSC) and lung adenocarcinomas (LUADs) who suffered relapse of their disease within this study.

Figure 18. Time course graphs demonstrating detection of clonal SNVs in plasma in advance of clinical relapse in patients with lung squamous cell carcinomas (LUSC) and lung adenocarcinomas (LUADs) who did not suffer relapse of their disease within the time course of this study (control cases).

Figure 19. Top row of "trees" represent phylogenetic trees constructed from the exome data. The bottom row of trees represent plasma phylogenetic trees. This figure demonstrates how plasma genotyping can be used to represent the subclonal structure of a tumour.

Figure 20. Tracking the subclonal structure of a tumour through time. In LTX019 a particular subclonal cluster was detected at the point of lung cancer relapse. This subclonal cluster contains CD44 which is associated with metastatic niche formation. In LTX038 only one phylogenetic branch is detected at relapse – suggesting that the relapse clone arose from this branch.

Figure 21. CONSORT diagram demonstrating patient involved in this cfDNA analysis and why 4 patients from the exome study were removed fom the cfDNA analysis.

Figure 22. Correlation of prevalence of mutational signatures and different mutation categories in LUAD and LUSC tumours. Significance from Spearman's Rank is indicated. To indicate that mutational signatures can be used to infer the clonality of a mutation.

Detailed Description of the Invention

Subject-specific method

The present invention relates to a subject-specific method for detecting recurrence of a tumour in a subject. The method is subject-specific insofar as the method is tailored to the patient. The method is carried out for a particular patient who has been diagnosed with a tumour. Subject specific can also be referred to as patient specific. The clonal and/or subclonal mutations identified in the tumour, that are used to determine whether the tumour has recurred in the patient, are mutations previously determined to be present in the tumour resected or biopsied from the individual subject.

In a preferred embodiment of the present invention, the subject described herein is a mammal, preferably a human, cat, dog, horse, donkey, sheep, pig, goat, cow, mouse, rat, rabbit or guinea pig. Most preferably the subject is a human.

The method of the invention detects the recurrence of a tumour in the specific subject or patient by detecting the presence and/or rise of clonal and/or subclonal mutations that are characteristic of the patient's tumour in the cell free DNA (cfDNA). It will be appreciated that the term "clonal mutation" may include an early clonal mutation(s) and/or a clonal mutation(s). The clonal and/or subclonal mutations are characteristic of the specific tumour from the individual patient. The clonal and/or subclonal mutations characteristic of the patient's tumour are defined by sequencing all or part of the whole genome and/or exome of DNA from the tumour, typically after the tumour has been resected from the patient. Using a set of reagents designed or defined to detect the presence of DNA from the tumour via the presence of the specific clonal and/or subclonal mutations identified for the specific subject of interest, the presence and/or rise of clonal and/or subclonal mutations in cfDNA obtained from the patient is analysed.

The presence and/or rise of clonal and/or subclonal mutations in the cfDNA from the patient characteristic of the tumour indicates whether the tumour has recurred. The presence and/or rise of clonal mutations in the cfDNA from a specific patient characteristic of the tumour may indicate relapse of the tumour.

In a preferred embodiment, the presence and/or rise of clonal mutations in the cfDNA from the patient characteristic of the tumour indicates whether the tumour has recurred. The presence and/or rise of clonal mutations in the cfDNA from a specific patient characteristic of the tumour may indicate relapse of the tumour.

In a preferred embodiment, the presence and/or rise of early clonal mutations in the cfDNA from the patient characteristic of the tumour indicates whether the tumour has recurred. The presence and/or rise of early clonal mutations in the cfDNA from a specific patient characteristic of the tumour may indicate relapse of the tumour.

The presence and/or rise of clonal and/or subclonal mutations in the cfDNA from the patient characteristic of the tumour may be used to determine which part or parts of the tumour is seeding relapse of the tumour in the patient. The presence and/or rise of subclonal mutations in cfDNA characteristic of the tumour may determine the part or parts of the tumour seeding relapse of the tumour.

In a preferred embodiment, the presence and/or rise of subclonal mutations in the cfDNA from the patient characteristic of the tumour may be used to determine which part or parts of the tumour is seeding relapse of the tumour in the patient. The presence and/or rise of subclonal mutations in cfDNA characteristic of the tumour may determine the part or parts of the tumour seeding relapse of the tumour.

Tumour type

The subject-specific method of the present invention is directed to detecting recurrence of a tumour. The tumour may be any solid or non-solid tumour. The tumour may be, for example, bladder cancer, gastric cancer, oesophageal cancer, breast cancer, colorectal cancer, cervical cancer, ovarian cancer, endometrial cancer, kidney cancer (renal cell), lung cancer (small cell, non-small cell and mesothelioma), brain cancer (e.g. gliomas, astrocytomas, glioblastomas), melanoma, lymphoma, small bowel cancers (duodenal and jejunal), leukaemia, lymphomas, pancreatic cancer, hepatobiliary tumours, germ cell cancers, prostate cancer, head and neck cancers, thyroid cancer and sarcomas.

In a preferred embodiment of the present invention, the tumour type is lung cancer, preferably non-small cell lung cancer. In a further aspect of the invention, the non-small cell lung cancer is a squamous cell tumour, an adenocarcinoma or a large cell carcinoma. In a preferred embodiment, the non-small cell lung cancer is squamous cell carcinoma.

The tumour may be removed from the patient by a number of different techniques known to the person skilled in the art. For example, the tumour may be removed or eliminated from the patient by surgical resection, endoscopic resection, chemotherapy and/or radiotherapy.

Tumour DNA

The method of the present invention comprises the step of determining the mutations present in cancer cells isolated from a tumour or subsection of a tumour. Isolation of biopsies and samples from tumours is common practice in the art and may be performed according to any suitable method and such methods will be known to one skilled in the art.

The tumour sample may be a blood sample. For example the blood sample may comprise cfDNA, circulating tumour DNA, circulating tumour cells or exosomes comprising tumour DNA.

In a preferred embodiment, early clonal, clonal and/or subclonal mutations in the tumour are defined from one or more tumour subsections. Early clonal, clonal and/or subclonal mutations in the tumour may be defined from at least one, at least two, at least three, at least four, at least five, at least six, at least seven, at least eight, at least nine, at least or up to ten subsections of the tumour.

In a further embodiment, clonal and/or subclonal mutations in the tumour are defined from a single region. In yet a further embodiment, early clonal mutations, i.e. clonal alterations that occur prior to genome doubling, are defined from a single region.

A single region encompasses a tumour biopsy, a subsection of a tumour, a whole tumour, a selected or single region of the exome, or selected or single region of the whole genome sequence. A single region of the exome or of the whole genome sequence may be selected on the region which encodes for early clonal mutations that occur pre-genome doubling that have undergone copy number amplifications. A single region of the exome or of the whole genome sequence may be selected on the region which encodes for common clonal somatic and early amplification events (see, for example, Table 1) and/or the likely "mutation signature" of a clonal and/or subclonal mutation (see, for example, Table 2). A single region of the exome or of the whole genome sequence may be selected by extrapolating likely clonal mutations characteristic of the tumour in the patient from the data relating to common clonal somatic and early amplification events (see, for example, Table 1) and/or the likely "mutation signature" of a clonal and/or subclonal mutation (see, for example, Table 2).

Clonal and subclonal mutations

A 'mutation' refers to a difference in a nucleotide sequence (e.g. DNA or RNA) in a tumour cell compared to a healthy cell from the same individual. The difference in the nucleotide sequence can result in the expression of a protein which is not expressed by a healthy cell from the same individual.

References herein to "essentially all" are intended to encompass the majority of tumour cells in a subject. For example, this may comprise 60-100% of cells, e.g. 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99 or 100% of tumour cells in a subject.

Different regions of tumours may be morphologically distinct. In addition, intratumour mutational heterogeneity may occur and can be associated with differences in tumour prognosis and the potential ability of tumour cells to escape immune therapies targeting mutations which are not present in all or most tumour cells.

Intratumour heterogeneity causes expression of tumour mutations in different regions of the tumour and between different cells of the tumour. Within a tumour, certain mutations are expressed in all regions and essentially all cells of the tumour whilst other mutations are only expressed in a subset of tumour regions and cells.

A "truncal" or "clonal" mutation is a mutation which is expressed effectively throughout a tumour and encoded within essentially every tumour cell. A "branch" or "subclonal" mutation is a mutation which is expressed in a subset or a proportion of cells or regions in a tumour.

'Present throughout a tumour', 'expressed effectively throughout a tumour' and 'encoded within essentially every tumour cell' may mean that the truncal mutation is expressed in all regions of the tumour from which samples are analysed.

It will be appreciated that a determination of a mutation is 'encoded within essentially every tumour cell' refers to a statistical calculation and is therefore subject to statistical analysis and thresholds.

A determination that a truncal mutation is 'expressed effectively throughout a tumour' refers to a statistical calculation and is therefore subject to statistical analysis and thresholds.

"Expressed effectively in essentially every tumour cell or essentially all tumour cells means" that the mutation is present in all tumour cells analysed in a sample, as determined using appropriate statistical methods.

By way of example, the cancer cell fraction (CCF), describing the proportion of cancer cells that harbour a mutation may be used to determine whether mutations are truncal or branched. For example, the cancer cell fraction may be determined by integrating variant allele frequencies with copy numbers and purity estimates as described by Landau et al. (Cell. 2013 Feb 14;152(4):714-26).

In brief, CCF values are calculated for all mutations identified within each and every tumour region analysed. If only one region is used (i.e. only a single sample), only one set of CCF values will be obtained. This will provide information as to which mutations are present

in all tumour cells within that tumour region, and will thereby provide an indication if the mutation is truncal or branched. All sub clonal mutations (i.e. CCF<1) in a tumour region are determined to be branched, whilst clonal mutations with a CCF=1 are determined to be truncal.

As stated, determining a truncal mutation is subject to statistical analysis and threshold. As such, a mutation may be identified as truncal if it is determined to have 5 a CCF 95% confidence interval >= 0.75, for example 0.80, 0.85, 0.90, 0.95, 1.00 or >1.00. Conversely, a mutation may be identified as branched if it is determined to have a CCF 95% confidence interval <= 0.75, for example 0.70, 0.65, 0.60, 0.55, 0.50, 0.45, 0.40, 0.35, 0.30, 0.25, 0.20, 0.15, 0.10, 0.05, 0.01 in any sample analysed. It will be appreciated that the accuracy of a method for identifying truncal mutations is increased by identifying clonal mutations for more than one sample isolated from the tumour.

The mutation may be a single nucleotide variant (SNV), multiple nucleotide variants, a deletion mutation, an insertion mutation, a translocation, a missense mutation or a splice site mutation resulting in a change in the amino acid sequence (coding mutation).

In a preferred embodiment, the clonal and/or subclonal mutations are single nucleotide variants (SNVs).

In some embodiments of the present invention, the clonal mutations are early clonal mutations.

It is known that genome doubling can occur in cancer cells. A mutation which occurs before a genome doubling event will therefore be present in a cancer cell at twice the relative copy number of a mutation which occurred after the doubling event. Early clonal mutations are those that arise in the tumour before genome doubling. Early clonal mutations encompass mutations which occur before a genome doubling event and are present in a cancer cell at twice the relative copy number of a mutation which occurred after the doubling event, i.e. mutations that occur pre-genome doubling and that have undergone copy number amplifications. It will be appreciated that the term "clonal" may include early clonal mutations and/or clonal mutations. Early clonal mutations may be present in chromosomal regions or in specific genes. Early clonal mutations may be somatic SNVs in genes classified as being high-confidence pre-genome doubling events and/or somatic SNVs in chromosomal regions classified as being involved in high-confidence early (pre-genome doubling) amplification events. Early clonal mutations may be detected in one or more of the genes and/or chromosomal regions of Table 1.

The presence and/or rise of early clonal mutations and/or clonal mutations in cfDNA that are characteristic of a tumour in a specific patient indicates the relapse of the tumour.

Thus, detecting the presence of these clonal and/or early clonal mutations in cfDNA detects whether the tumour has relapsed. Early clonal mutations encompass mutations that occur pre-genome doubling that have undergone copy number amplifications and that have the highest variant allele frequency in plasma.

A mutation profile which includes early clonal, clonal and/or subclonal mutations of the tumour may be used to reconstruct the phylogenetic tree of each tumour from each patient. It will be appreciated that the phylogenetic tree of each tumour represents how the tumour has evolved. The evolution of the tumour is coded in the tree and provides important biological information about the genetic diversity of heterogeneity of the cancer and early clonal, clonal and/or subclonal mutation composition. Mutations from a tumour may be assembled into a phylogenetic tree defining the early clonal, clonal and/or subclonal mutation profile of the tumour. Such a phylogenetic tree will be specific for the tumour and specific for the patient from which the tumour has been resected.

The phylogenetic tree characterises the early clonal, clonal and/or subclonal mutations in a tumour specific for a patient.

The early clonal and/or clonal mutations or clones are in the "trunk" of the tree. Clonal mutations are relapse indicators and detecting their presence and/or rise in a sample, for example cfDNA, is indicative of relapse of the tumour. Early clonal mutations have high variant allele frequencies in cfDNA and their presence and/or rise represents a sensitive method of predicting or indicating relapse of the tumour post-surgery.

The subclonal mutations are in the "branches" of the tree. Detection of the subclonal mutations or subclones allows for the identification of the branches seeding relapse of the tumour. Identifying the branches seeding relapse may have implications in patient specific treatment options.

Barcodes

In some embodiments, a patient-specific "barcode" is generated from the early clonal, clonal and/or subclonal mutations as exemplified in Examples 8 and 9. A patient-specific barcode comprises or consists of SNVs and/or insertion and/or deletion mutations that are characteristic of the tumour in the specific patient that can be clonal or subclonal in origin to depict the tumour phylogenetic tree. Detection of the SNVs of the patient-specific barcode indicates whether the tumour in the specific patient has relapsed. A barcode is specific for the tumour in the specific patient. Thus, the barcode is unique to each patient. The barcode may also be referred to as a personalised barcode.

The patient-specific barcode may comprise one or more mutations. The patient-specific barcode may comprise one or more SNVs and/or insertion and/or deletion mutations. The patient-specific barcode may comprise at least one, at least two, at least three, at least four, at least five, at least six, at least seven, at least eight, at least nine, at least ten, at least fifteen, at least twenty, at least twenty-five, at least thirty, at least thirty five, at least forty, at least forty five, at least fifty, at least one hundred, at least one hundred and fifty, at least two hundred, at least two hundred and fifty, at least three hundred, at least three hundred and fifty, at least four hundred, at least four hundred and fifty, at least or up to 500 SNVs and/or insertion and/or deletion mutations characteristic of the tumour of the specific patient.

The SNVs of the barcode may be early clonal mutations, clonal mutations and/or subclonal mutations and/or insertion and/or deletion mutations. A patient specific barcode may therefore comprise or consist of early clonal mutations, clonal mutations and/or subclonal mutations and/or insertion and/or deletion mutations. A patient specific barcode may also comprise early clonal mutations only. A patient specific barcode may also comprise SNVs arising from early clonal driver genes and/or early clonal amplification chromosome arms (Table 1) and/or the mutation signature (Table 2). In a preferred embodiment, the SNVs that comprise or consist the patient-specific barcode are those that give a high sensitivity and high resolution for detecting relapse of the tumour.

A patient-specific barcode may comprise early clonal mutations, clonal mutations and/or subclonal mutations derived from a single region. A single region is described above. A single region patient specific barcode may therefore comprise or consist of early clonal mutations, clonal mutations and/or subclonal mutations and/or insertion and/or deletion mutations. A single region patient specific barcode may also comprise early clonal mutations only. A single region patient specific barcode may also comprise SNVs arising from early clonal driver genes and/or early clonal amplification chromosome arms (Table 1) and/or the mutation signature (Table 2). In a preferred embodiment, the SNVs that comprise or consist the single region patient-specific barcode are those that give a high sensitivity and high resolution for detecting relapse of the tumour.

Cell free DNA (cfDNA)

The invention relates to a subject-specific method of detecting recurrence of a tumour in a subject wherein the clonal and/or subclonal mutations are identified in a sample. The sample may be a body fluid. Body fluid refers to any body fluid in which cfDNA , exosome derived tumour DNA, circulating tumour DNA and/or circulating tumour cells may be

present including, without limitation, whole blood, serum, plasma, bone marrow, cerebral spinal fluid, peritoneal/pleural fluid, lymph fluid, ascite, serous fluid, sputum, lacrimal fluid, stool, and urine. Typically, the body fluid to be analysed according to the invention is derived from a sample of whole blood (i.e., a blood sample comprising both blood cells and plasma). Preferably, the body fluid is plasma or serum. The sample may comprise cfDNA, circulating tumour DNA, circulating tumour cells or exosomes comprising tumour DNA. It will be appreciated that exosome derived tumour DNA refers to exosomes that are released by the tumour cells and contain tumour DNA. The tumour DNA is contained within the exosome and derived from the exosome.

The sample may be obtained from the specific patient by any non-invasive method. A non-invasive method encompasses any method that does not invade the body or cut open the body. Such methods include, but are not limited to, venepuncture, methods to obtain a liquid biopsy, lumbar puncture, pleural fluid aspiration, pericardial fluid aspiration and ascitic fluid aspiration.

In a preferred embodiment, the sample comprises cfDNA. Cell-free DNA or "cfDNA" herein refers to DNA that exists outside a cell in a subject or the isolated form of such DNA, typically in a body fluid. Unless otherwise indicated or contrary to context, "circulating DNA" herein refers to cfDNA present in blood.

Tumour sequencing

Determining mutations present in a tumour sample may be performed by comparing DNA and/or RNA sequences isolated from tumour samples and comparative healthy samples from the same subject by exome sequencing, whole genome sequencing and/or targeted gene panel sequencing, for example.

Sequence alignment to identify nucleotide differences (e.g. single nucleotide variants or SNVs) in DNA and/or RNA from a tumour sample compared to DNA and/or RNA from a non-tumour sample may be performed using methods which are known in the art. The reference sample may be the germline DNA and/or RNA sequence.

The method of the present invention preferably uses multi-regional high-depth whole exome sequencing.

The method of the present invention relates to a subject specific method of defining a set of reagents to detect recurrence of a tumour in the subject.

In some embodiments of the invention, the whole genome and/or exome of the tumour is sequenced. In other embodiments of the invention, part of the genome and/or

exome of the tumour is sequenced. Thus, all or part of the genome and/or exome of DNA from the tumour may be sequenced. The part of the genome and/or exome of the tumour which is sequenced may be for specific genes or chromosomal regions. For example, the part of the genome and/or exome of the tumour which is sequenced may include any of the genes or chromosomal regions defined in Table 1.

Whole or part of the genome and/or exome of the tumour may be sequenced and compared to whole or part of the genome and/or exome sequenced from healthy samples. A healthy sample may be a healthy tissue sample or a healthy blood sample taken from a part of the patient's body which does not have a tumour or is not affected by a tumour or tumour growth.

Whole or part of the genome and/or exome of the tumour or healthy sample may be sequenced to identify or define early clonal, clonal and/or subclonal mutations in the tumour. Determining the presence of early clonal, clonal and/or subclonal mutations in the tumour enables determination of the comparable early clonal, clonal and/or subclonal mutations in the cfDNA taken from the subject.

Whole or part of the genome and/or exome of the tumour or healthy sample may be sequenced to identify or define early clonal, clonal and/or subclonal mutations in the tumour. Determining the presence of early clonal, clonal and/or subclonal mutations in the tumour enables determination of the comparable early clonal, clonal and/or subclonal mutations in the cfDNA taken from the subject.

In some embodiments, whole or part of the genome and/or exome is sequenced from the whole tumour or from subsections of the tumour. It will be appreciated that a subsection of the tumour refers to a resected section of the whole tumour resected from the patient. Whole or part of the exome may be sequenced from one or more tumour subsections. Whole or part of the exome may be sequenced from at least one, at least two, at least three, at least four, at least five, at least six, at least seven, at least eight, at least nine, at least or up to ten subsections.

In some embodiments of the invention, the whole or part of the non-tumour genome and/or exome of the subject is sequenced. In some embodiments, the whole or part of the non-tumour genome and/or exome of the subject is sequenced and compared with the tumour genome and/or exome sequences to define the clonal and/or subclonal mutations found in the subject's tumour.

In some embodiments of the invention, sequencing all or part of the genome and/or exome of DNA from the tumour to define clonal and/or subclonal mutations in the tumour

allows a set of reagents that will detect the presence of the clonal and/or subclonal mutation in cfDNA from the tumour to be defined.

Definition and detection of clonal and/or subclonal mutations in cfDNA

A set of reagents is synthesised, defined and/or used to detect the presence of DNA from the tumour via the presence of early clonal, clonal and/or subclonal mutations. It will be appreciated that a set of reagents encompasses any reagents required to perform nucleotide sequence amplification and sequencing. It will also be appreciated that a set of reagents encompasses any reagents required to capture fragments of cfDNA. For example, a set of reagents may be a set of reagents for carrying out the CAPP-SEQ assay or a set of reagents for carrying out a digital PCR assay. In a preferred embodiment, the set of reagents is a set of reagents comprising probes and/or primers. Such probes and/or primers may be produced by known and routine techniques used in the art. Typically, the probes and/or primers will be for multiplex PCR. In a preferred embodiment, the set of reagents is a set of multiplex PCR probes and/or primers. The set of reagents for performing multiplex PCR is known to the person skilled in the art.

In some embodiments of the present invention, the cfDNA is obtained from the subject prior to removal of the tumour to identify mutations found in cfDNA from the tumour and using these mutations to define the set of reagents.

In some embodiments of the invention, the early clonal, clonal and/or subclonal mutations are defined based on which mutations occur in which tumour subsections. For example, early clonal, clonal and/or subclonal mutations may be defined on mutations occurring in the same tumour subsection or subsections and/or a different tumour subsection or subsections. In a preferred embodiment, early clonal, clonal and/or subclonal mutations in the tumour are defined from one or more tumour subsections. Early clonal, clonal and/or subclonal mutations in the tumour may be defined from at least one, at least two, at least three, at least four, at least five, at least six, at least seven, at least eight, at least nine, at least or up to ten subsections. In some embodiments of the invention, the set of detection reagents is capable of detecting one or more mutations. The set of detection reagents may be capable of detecting at least one, at least two, at least three, at least four, at least five, at least six, at least seven, at least eight, at least nine, at least ten, at least fifteen, at least twenty, at least twenty-five, at least thirty, at least thirty five, at least forty, at least forty five, at least fifty, at least one hundred, at least one hundred and fifty, at least two hundred, at least two hundred and fifty, at least three hundred, at least three hundred and fifty, at least four hundred, at least

four hundred and fifty, at least or up to 500 mutations characteristic of each subsection of the tumour.

The method of the present invention relates to detecting recurrence of a tumour in a subject comprising analysing cfDNA with the subject specific set of reagents that will detect the presence of clonal and/or subclonal mutations from the tumour. The cfDNA is obtained from the subject subsequent or after the removal of the tumour and is analysed to determine whether or not the tumour has recurred by detection of the clonal and/or subclonal mutations from the tumour in the cfDNA. In a preferred embodiment, the analysis of the clonal and/or subclonal mutations in the cfDNA is a multiplex PCR.

In one embodiment, the method relates to detecting recurrence of a tumour in a subject by analysing cfDNA to identify early truncal mutations from the tumour. Since early truncal variants will be pervasive in the tumour and amplified due to genome doubling events, detection of these early events before genome doubling will provide greater sensitivity in terms of a biomarker predictive of disease activity and recurrence. A further advantage of detecting early mutations is that it is not necessary to sequence multiple regions, and so will reduce the time taken to carry out the method.

To increase the sensitivity of the method further, the early truncal mutations may be somatic SNVs in genes classified as being high-confidence early (pre-genome doubling) events or in chromosomal regions classified as being involved in high-confidence early (pre-genome doubling) amplification events. Examples of such genes and chromosomal regions for NSCLC are given in Table 1.

In another preferred embodiment, the set of regents synthesised, defined and/or used to detect the presence of DNA from the tumour via the presence of clonal and/or subclonal mutations is a set of multiplex PCR probes and/or primers that are used in the analysis of of the clonal and/or subclonal mutations in the cfDNA in a multiplex PCR reaction. A set of detection reagents may be a set of multiplex primers for use in a multiplex PCR reaction.

In some embodiments of the invention, the set of reagents detects one or more mutations characteristic of the trunk of the phylogenetic tree. The set of reagents may detect at least one, at least two, at least three, at least four, at least five, at least six, at least seven, at least eight, at least nine, at least ten, at least fifteen, at least twenty, at least twenty-five, at least thirty, at least thirty five, at least forty, at least forty five, at least fifty, at least one hundred, at least one hundred and fifty, at least two hundred, at least two hundred and fifty, at least three hundred, at least three hundred and fifty, at least four hundred, at least four hundred and fifty, at least or up to 500 mutations characteristic of the trunk of the phylogenetic tree.

In some embodiments of the invention, the set of reagents detects one or more mutations characteristic of the branch of the phylogenetic tree. The set of reagents may detect at least one, at least two, at least three, at least four, at least five, at least six, at least seven, at least eight, at least nine, at least ten, at least fifteen, at least twenty, at least twenty-five, at least thirty, at least thirty five, at least forty, at least forty five, at least fifty, at least one hundred, at least one hundred and fifty, at least two hundred, at least two hundred and fifty, at least three hundred, at least three hundred and fifty, at least four hundred, at least four hundred and fifty, at least or up to 500 mutations characteristic of each branch of the phylogenetic tree.

In some embodiments of the invention, the set of reagents detects one or more mutations characteristic of the trunk of the phylogenetic tree and one or more mutations characteristic of the branch of the phylogenetic tree. The set of reagents may detect at least one, at least two, at least three, at least four, at least five, at least six, at least seven, at least eight, at least nine, at least ten, at least fifteen, at least twenty, at least twenty-five, at least thirty, at least thirty five, at least forty, at least forty five, at least fifty, at least one hundred, at least one hundred and fifty, at least two hundred, at least two hundred and fifty, at least three hundred, at least three hundred and fifty, at least four hundred, at least four hundred and fifty, at least or up to 500 mutations characteristic of the trunk of the phylogenetic tree and at least one, at least two, at least three, at least four, at least five, at least six, at least seven, at least eight, at least nine, at least ten, at least fifteen, at least twenty, at least twenty-five, at least thirty, at least thirty five, at least forty, at least forty five, at least fifty, at least one hundred, at least one hundred and fifty, at least two hundred, at least two hundred and fifty, at least three hundred, at least three hundred and fifty, at least four hundred, at least four hundred and fifty, at least or up to 500 mutations characteristic of each branch of the phylogenetic tree.

In some embodiments, the cfDNA sample analysis is carried out at least 48 hours, from 48 hours to 7 days, from 7 to 14 days, from 14 days to one month, from one to two months, from two to six months, from six months to one year or over one year from the removal of the tumour.

In further embodiments, the cfDNA sample analysis is carried out on multiple occasions over a period of time, for example at regular intervals.

Detection of clonal and/or subclonal mutations characteristic of the tumour by analysing cfDNA obtained from the subject post tumour resection indicates recurrence of the tumour. The absence of clonal and/or subclonal mutations characteristic of the tumour by analysing cfDNA obtained from the subject post tumour resection indicates that the tumour has not recurred.

Treatment regimen based on findings

The method of the present invention requires profiling a sample, for example cfDNA from a blood sample, for clonal and/or subclonal mutations characteristic of a tumour specific to a patient. Clonal and/or subclonal mutations are sensitive markers of tumour relapse. A treatment or treatments administered to the patient may be decisive based on the clonal variants, for example subclonal mutations in the "branches" of the phylogenetic tree. Detection of the subclonal mutations or subclones allows for the identification of the branches seeding relapse of the tumour. Identifying the branches seeding relapse may have implications in patient specific treatment options.

Based on the detection of the early clonal, clonal and/or subclonal mutations characteristic of the tumour in cfDNA, a personalised treatment regimen is created. Clonal and/or subclonal mutations characteristic for the recurring tumour present in cfDNA of a patient may be more susceptible to treatment by different methods. Based on the presence and/or rise of clonal and/or subclonal mutations characteristic for the tumour, a treatment regimen is designed. A treatment or treatments may include but are not limited to surgery, targeted small molecular therapy, immunotherapy, antibody therapy, adoptive T cell therapy, vaccine therapy, chemotherapy and/or radiotherapy. A treatment or treatments may be administered singly or in combination. A treatment or treatments may be adjuvant therapies, which may include, but are not limited to, adoptive T cell therapy, dendritic cell vaccination and cancer vaccination.

A treatment or treatments may comprise adjuvant chemotherapy, for example cisplatin and/or vinorelbine. A treatment or treatments may also comprise immunotherapy, for example with immune checkpoint inhibitors, adoptive immune T cell immunotherapy, cancer vaccination and/or CAR-T cells. A treatment or treatments may also comprise T cell therapy against clonal neo-antigens or modulating adoptive T cell therapy in real time by tracking clonal variants that encode patient-specific neoantigens, i.e. tumour mutations that make the protein visible to the host immune system. A treatment or treatments may comprise using targeted therapy, for example Afatanib, against a targetable alteration such as an EGFR mutant or ERBB2 amplification.

The presence and/or rise of early clonal and/or clonal mutations in cfDNA may be used to monitor response to treatment. The presence and/or rise of early clonal and/or clonal mutations in cfDNA may be used to monitor response to adjuvant treatment, for example adjuvant chemotherapy. The detection of early clonal, clonal and/or subclonal clonal

mutations in cfDNA indicates lack or response to treatment. The absence of early clonal, clonal and/or subclonal mutations in cfDNA correlates with successful treatment outcome.

The presence and/or rise of early clonal, clonal and/or subclonal mutations in cfDNA characteristic of a tumour in a specific patient during treatment may change the treatment regimen. The presence and/or rise of early clonal, clonal and/or subclonal mutations in cfDNA characteristic of a tumour in a specific patient during adjuvant treatment, for example adjuvant chemotherapy, may change the treatment regimen. Such a presence and/or rise of early clonal, clonal and/or subclonal mutations in cfDNA characteristic of a tumour in a specific patient during treatment and/or adjuvant treatment, for example adjuvant chemotherapy, may be used as a tool to stop treatment, use an alternative treatment, escalate treatment, for example to a clinical trial, and/or de-escalate treatment. For example, the treatment or adjuvant treatment may not be treating the tumour in the specific patient, or the treatment or adjuvant treatment may be toxic to the specific patient. The rationale behind stopping treatment, using an alternative treatment, escalating treatment and/or de-escalating treatment may be based on the presence, absence, rise and/or fall of early clonal, clonal and/or subclonal mutations in cfDNA.

The presence, absence, rise and/or fall of early clonal, clonal and/or subclonal mutations in cfDNA may facilitate the clinician in deciding what treatment to administer to the specific patient. Based on the the presence, absence, rise and/or fall of early clonal, clonal and/or subclonal mutations in cfDNA, the clinical may decide to administer or not to administer adjuvant chemotherapy. The decision to administer or not to administer adjuvant chemotherapy based on the presence, absence, rise and/or fall of early clonal, clonal and/or subclonal mutations in cfDNA may also be based on the levels of early clonal, clonal and/or subclonal mutations in cfDNA at a time period post-surgery. The cfDNA sample analysis may be carried out on multiple occasions over a period of time post-surgery, for example at regular intervals. The cfDNA sample analysis may be carried out at least 48 hours, from 48 hours to 7 days, from 7 to 14 days, from 14 days to one month, from one to two months, from two to six months, from six months to one year or over one year post-surgery. The cfDNA sample analysis may be carried out between 4 to 6 weeks post-surgery.

The invention will now be further described by way of Examples, which are meant to serve to assist one of ordinary skill in the art in carrying out the invention an are not intended in any way to limit the scope of the invention.

Examples

Materials and methods

Introduction

A study demonstrated the successful detection of cancer-relevant point mutations in the plasma of cancer patients.

The mutation profile of 4 lung cancer tumours was determined by whole exome sequencing (WES) or AmpliSeq, and a subset of those mutations were successfully detected in the corresponding plasma samples using a multiplex PCR-Next-Generation Sequencing (mPCR-NGS) method.

The mPCR-NGS method was used to detect and track over time cancer-specific mutations in the plasma of cancer patients, and to evaluate the utility of the method in monitoring disease progression through treatment. The first phase of the project was the determination of the baseline mutation profile in the plasma of 50 treatment-naïve lung cancer patients.

Purified genomic DNA samples from several tumour regions (1–7 regions per tumour), purified germline DNA samples, and intact plasma samples from 50 patients were provided. The mutation profile of all of the tumour regions was previously determined by whole exome sequencing (WES) and AmpliSeq, and a subset of mutations per patient was determined. Those mutations include both driver and passenger mutations, and both clonal and sub-clonal mutations. The full mutation profile of each tumour was used to reconstruct the phylogenetic tree of each tumour.

Based on these data, multiplex PCR assays were designed, corresponding primers were ordered, primer pools were prepared, primer pools quality controlled and the mPCR protocol optimised for each pool. Plasma cfDNA was purified, quantified and converted into libraries. The libraries were then used as input into the mPCR, the products were sequenced and analysed. A similar protocol was applied to the genomic DNA from tumour and matched normal samples.

A workflow diagram is shown in Figure 1. The total number of SNVs per sample and the working assays sorted by driver category are shown in Figure 2.

Study population

For each of the first 50 patients, 4–5 mL of plasma obtained before tumour resection and prior to any therapy was isolated. Plasma samples were aliquoted in 2 mL tubes.

Purified genomic DNA from up to 7 tumour subsections, from affected lymph nodes (where available), and from the white blood cell fraction (referred to as the matched normal) were purified and 500 ng purified DNA from each sample, normalized at 10 ng/uL, was obtained.

The mutation profile, which included single nucleotide variants (SNVs) for each tumour subsection, was determined using whole exome sequencing. The full mutation profile of each tumour was used to reconstruct the phylogenetic tree of each tumour.

PyClone was used to identify clusters of SNVs, and calculate their cancer-cell fraction. This was used to categorize SNVs as either clonal or subclonal. The driver category of each SNV was determined and provided as the driver category (1–4, where 1 is most likely to be a driver mutation, and 4 is the least likely). For each patient, up to 108 SNVs, spanning all driver categories and including clonal and subclonal mutations, were identified. The detected allele fractions of each SNV in each tumour subsection, lymph node and matched normal DNA sample along with PyClone clonal/subclonal cluster information were also identified.

For each patient, the following information was available: tumour size (mm), tumour location (lung lobe), tumour stage, tumour histological type, number of lymph nodes affected, vascular invasion status, as well as de-identified information on the collecting hospital.

Assay design and protocol optimization

The standard assay design pipeline was used to design Right and Left PCR primers for all given SNVs. We refer to a pair of Right and Left PCR primers targeting a SNV as an assay for that particular SNV. Note that it is possible for one assay to cover more than 1 target SNV, if they were in close proximity. For every pair of assays, the probability of forming primer-dimer was calculated using the standard pipeline. The SNV allele-fraction data in each tumour was used to reconstruct phylogenetic trees using LICHeE (Lineage Inference for Cancer Heterogeneity and Evolution). The list of assays for each sample were filtered to remove primers that were predicted to form primer dimers while giving strong priority to assays covering driver 1 and 2 SNVs. The remaining assays were used to create 5 balanced pools, each containing assays of 10 patients. All assays pooled together were compatible, meaning there were no primers predicted to form primer-dimer in a pool. At each step, the assays were chosen such that:

- Assays covering driver 1 and 2 SNVs have the highest priority
- For each patient number of selected SNVs per branch is proportional to the total number SNVs of that branch from the reconstructed phylogenetic tree. More specifically, we tried to have a uniform sampling of SNVs from branches in the reconstructed phylogeny tree, making sure selected assays give provide a good coverage of the reconstructed tree.

The final design consisted of 972 assays, equally distributed among the 5 pools, and containing 15- 20 assays for each sample.

Pool quality control (QC) and optimization

The 972 primer pairs were synthesized by Integrated DNA Technologies (IDT) in individual wells, desalted, and normalized to 100 uM. The assays were pooled according to the pooling scheme, and each pool was used in a combined QC/optimization experiment. For the optimization experiment, several PCR parameters were varied and the effects on the sequencing performance, as well as the number of failed assays, were evaluated from the sequence data. The PCR conditions that yield the best percentage of on target reads, depth of read uniformity, and error rate were determined. Primers that were responsible for the majority of primer dimers were identified and removed from each pool (for each primer removed, its corresponding partner was also removed). Following this step, 908 total assays remained, equally distributed among the 5 pools.

DNA extraction and QC

All the plasma aliquots from each patient were pooled prior to cfDNA extraction, and the hemolysis grade of each pooled plasma sample was evaluated visually (no hemolysis, mild hemolysis, or severe hemolysis). cfDNA was extracted using the Qiagen NA kit following a protocol optimized for 5 mL of plasma. All cfDNA samples were quality controlled on Bioanalyzer High Sensitivity chips. The same Bioanalyzer High Sensitivity runs were also used to quantify the cfDNA samples by interpolation of the mononucleosomal peak height on a calibration curve prepared from a pure cfDNA sample that was previously quantified. This was necessary because cfDNA sometimes contains an intact DNA fraction that overlaps with the high size marker on the chip, which makes quantification of the mononucleosomal peak unreliable. A representative subset of the purified genomic DNA samples (from tumour subsections, lymph nodes and white blood cells) were quantified using

the QuantIt DNA High Sensitivity kit. All of the samples quantified were in the expected range (~10 ng/uL).

cfDNA library preparation

The entire cfDNA amount from each plasma sample was used as input into Library Prep using the library prep kit and following the kit instructions. For two samples with extremely high cfDNA amounts, the input amount into Library Prep was restricted to ~50,000 genome equivalents (165 ng). The libraries were amplified to plateau and then purified using Ampure beads following the manufacturer's protocol. The purified libraries were quality controlled on the LabChip.

cfDNA multiplex PCR and Sequencing

The library material from each plasma sample was used as input into multiplex PCR (mPCR) using the relevant assay pool and an optimized plasma mPCR protocol. The mPCR products were barcoded in a separate PCR step, and the barcoded PCR products were pooled according to the assay pooling information into 5 pools. The pools were purified using Ampure beads following the manufacturer's protocol, quality controlled and quantified on a Bioanalyzer DNA1000 chip. Each pool contained 10 cancer plasma libraries and 20 negative controls (prepared from cfDNA extracted from presumed healthy volunteers). All 20 control specimens were obtained by the clinical research department under IRB-approved protocols with proper patient consent following Good Clinical Practice (GCP). Samples were obtained from one of three sources: healthy volunteers, Advanced Biomedical Research, Inc., or StemExpress. Each pool was sequenced on a separate HiSeq2500 Rapid run with 50 cycle paired end single index reads.

gDNA multiplex PCR and sequencing

The genomic DNA samples were used as input into a similar mPCR using the relevant assay pools and an optimized genomic mPCR protocol. The mPCR products were barcoded in a separate PCR step, and all the barcoded products were combined into one pool. The pool was purified using Ampure beads following the manufacturer's protocol, QCed and quantified on a Bioanalyzer DNA1000 chip. The pool was sequenced on a single HiSeq2500 Rapid run with 50 cycle single end single index reads.

Subclonal deconstruction

To determine whether mutations were clonal or subclonal, and the clonal structure of each tumor, a modified version of PyClone was used. For each mutation, two values were calculated, obsCCF and phyloCCF. obsCCF corresponds to the observed cancer cell fraction (CCF) of each mutation. Conversely, phyloCCF corresponds to the phylogenetic CCF of a mutation. To clarify the difference between these two values, consider a mutation present in every cancer cell within a tumor. A subclonal copy number event in one tumor region may lead to loss of this mutation in a subset of cancer cells. While, the obsCCF of this mutation is therefore below 1, from a phylogenetic perspective the mutation can be considered clonal as it occurred on the trunk of the tumor's phylogenetic tree, and, as such, the phyloCCF may be 1.

To calculate the obsCCF of each mutation, local copy number (obtained from ASCAT), tumor purity (also obtained from ASCAT), and variant allele frequency were integrated. In brief, for a given mutation we first calculated the observed mutation copy number, n_{mut}, describing the fraction of tumor cells carrying a given mutation multiplied by the number of chromosomal copies at that locus using the following formula:

$$n_{mut} = VAF \frac{1}{p}[pCN_t + CN_n(1-p)]$$

where VAF corresponds to the variant allele frequency at the mutated base, and p, CN_t, CN_n are respectively the tumor purity, the tumor locus specific copy number, and the normal locus specific copy number (CN_n was assumed to be 2 for autosomal chromosomes). The expected mutation copy number, n_{chr}, using the VAF was calculated and a mutation to one of the possible local copy numbers states using maximum likelihood was assigned. In this case only the integer copy numbers were considered.

All mutations were then clustered using the PyClone Dirichlet process clustering. For each mutation, the observed var_count was used and ref_count was set such that the VAF was equal to half the pre-clustering CCF. Given that copy number and purity had already been corrected, the major allele copy numbers to 2 and minor allele copy numbers to 0 and purity to 0.5 were set; allowing clustering to simply group clonal and subclonal mutations based on their pre-clustering CCF estimates. We ran PyClone with 10,000 iterations and a burn-in of 1000, and default parameters, with the exception of --var_prior set to 'BB' and –ref_prior set to 'normal'.

To determine the phyloCCF of each mutation, a similar procedure to that described above was implemented, with the exception that mutations were corrected for subclonal copy number

events. Specifically, if the observed variant allele frequency was significantly different from that expected ($P<0.01$, using prop.test in R) given a clonal mutation, we determined whether a subclonal copy number event could result in a non-significant ($P>0.01$) difference between observed and expected VAFs. The pre-clustering CCF for each mutation was then calculated by divided n_{mut} by n_{chr}. Subclonal copy number events were estimated using the raw values from ASCAT output.

To ensure potentially unreliable VAFs of indels did not lead to separate mutation clusters, each estimated indel CCF was multiplied by a region specific correction factor. Assuming the majority of ubiquitous mutations, present in all regions, are clonal, the region specific correction factor was calculated by dividing the median mutation CCF of ubiquitous mutations by the median indel CCF of ubiquitous indels.

Timing of mutations

Individual mutations (SNVs, DNVs and indels) were timed as clonal or subclonal through PyClone clustering as described above. For clonal timing, the values from phyloCCF were used. Clonal mutations were then further timed as early, late or untimed clonal. This was performed first within each tumor region relative to overlapping copy number events as previously described. In brief, mutations in parts of the genome with at least two copies of the major allele were preliminarily classified as early if the mutation copy number (described above) was > 1, and late if it was <= 1. Temporal analysis was then performed across all regions. Mutations classified as clonal were called as "clonal early" if a given mutation was early across all regions, or, if the mutation was early in the majority of regions. A clonal mutation was called as "clonal late" if it was called as late across all regions, or if it was late across the majority of regions. Any clonal mutations that could not be timed as either early or late, was classified as "clonal untimed".

Timing of chromosomal arm SCNA

Whole chromosomal arm gain and loss were called as clonal and subclonal as described above. Clonal chromosomal arm gain was further timed by the mutation copy number of all mutations on a given arm. All mutations mapping to the arm gain was identified, and the across-region average ratio of mutations with a mutation copy number within one copy of the major allele was determined. If the majority of mutations showed a copy number within one copy of the major allele, indicating that the mutations occurred prior to increase in copy number and were gained with the chromosomal arm, the chromosomal arm gain was called as "clonal late".

If the majority of mutations showed a lower copy number, indicating that the mutations occurred after chromosomal arm gain, the copy number gain was called as "clonal early." If there were not enough mutations mapping to regions of chromosomal arm gain, the chromosomal arm gain was called as "clonal untimed". For clonal chromosomal arm loss, we timed the losses relative to LOH status in genome doubled tumors. Any chromosomal arm loss showing LOH in a genome doubled context is likely to have occurred prior to genome doubling as it would otherwise require two independent hits. Thus, chromosomal arm loss in a genome doubled context showing LOH were called as "clonal early", chromosomal arm loss in a genome doubled context without LOH were called as "clonal late", and chromosomal arm loss not in a genome doubled context were called as "clonal untimed".

Phylogenetic tree construction

Mutations were clustered across tumour regions as described above. Mutation clusters with at least 5 mutations assigned were included in the phylogenetic analysis. Only tumors with at least two regions with good copy number data and at least two mutation clusters were included in the analysis (292 tumor regions from 90 tumors). To infer phylogenetic relationship between clusters of mutations, a one sided t-test was performed between the phyloCCF values of each mutation cluster pair, in all tumor regions. A p-value threshold of 0.025 was applied to determine if a given cluster of mutations was significantly smaller than another cluster. If cluster A was significantly smaller than B in at least one region, and cluster B is not significantly smaller than cluster A in any regions, then cluster A was determined to have descended from cluster B. This would occasionally result in impossible phylogenetic relationships, where e.g. a cluster A was annotated as descended from two different clusters, B and C, both descended from D, creating a circle in the phylogenetic tree. To resolve this, all circles were identified, and resolved by sequentially removing the cluster containing the fewest mutations until no circles would be found in the phylogenetic tree structure. All phylogenetic trees were manually verified, by comparing the tree structure with region-by-region scatter plots of pyclone-clustered CCF values. Smaller mutation clusters removed for causing circles were attempted put back by comparing the CCF values across regions both before and after correcting for copy number changes. Occasionally in particular smaller mutation clusters had large confident intervals in specific regions, potentially due to copy number changes, causing erroneous placement in the phylogenetic tree structure. This was resolved in the manual verification step.

Mutational Signature Analysis

Mutational signatures were estimated using the deconstructSigs package in R. Signature 1A, 2, 4, 5, 13 were considered. For temporally dissected mutational signatures, mutational signature analysis was only applied if at least 15 mutations were present. Similarly, subclone specific mutational signature analysis was restricted to subclones with at least 15 mutations.

Data analysis

Plasma SNV calls

Each plasma sequencing run contained 10 cancer samples and 20 negative control samples, all sequenced with the corresponding mPCR pool. The set of SNVs covered by assays in a pool were considered as target SNVs for the associated run. At each SNV position, an error model was built using all of the 20 negative control samples plus the 9 cancer samples that were not expected to contain that particular SNV. Samples with high plasma VAF (>20%) among the putative negatives were considered to have possible germline mutation and were excluded from the background error model3. A confidence score was calculated for each target SNV based on the background error model. A positive plasma SNV call was made if the calculated confidence for that mutation in the corresponding plasma sample passed our confidence threshold.

The same calling strategy with the same confidence threshold was used to attempt to make SNV calls on the remaining samples (including other cancer samples and control samples) that were not expected to contain the given SNVs. The SNVs that were detected in this way were considered 'false positive'. The false positive rate was 0.24% (at the mutation level).

Tissue SNV calls

All the tumour subsections, lymph node samples and matched normal samples were sequenced on one sequencing run. For each sample (tissue subsection, lymph node or matched normal), only the appropriate mPCR pool was used. The tissue VAF for each expected mutation was determined directly from the sequence data as (mutant DOR)/(total DOR). Only mutations with tissue VAF >5% were considered positive.

SNV assay pool creation and validation

cfDNA extraction

Up to 5 ml of plasma per case was available for this study. The entire volume of plasma was used for cfDNA extraction. cfDNA was extracted using the QIAamp Circulating Nucleic Acid kit (Qiagen) and eluted into 50 ul DNA Suspension Buffer (Sigma). The purified cfDNA was stored frozen at -20oC until use.

cfDNA QC and quantification

Every cfDNA sample was QCed and quantified on the Bioanalyzer High Sensitivity (Agilent). Plasma cfDNA consists of a main mono-nucleosomal peak (~160 bp); for some samples, di-nucleosomal and tri-nucleosomal peaks are visible (at ~320 bp and ~500 bp, respectively). The library prep method used selectively amplifies the mono-nucleosomal fraction of cfDNA. Because a high molecular weight DNA fraction sometimes overlaps the upper marker used on the Bioanalyzer, quantification is not always reliable. Consequently, the amount of cfDNA analyzed was estimated from the peak height of the mono-nucleosomal peak using a standard curve.

SNV assay design

Natera's standard assay design pipeline was used to design forward and reverse PCR primers for all SNVs detected in tumour samples; each pair targeting an SNV comprises the assay for that SNV. If two SNVs were in close proximity, a single assay could cover more than 1 target SNV. For some SNVs, it was not possible to design an assay. When creating assay pools, the probability of every pairing of two assays to form primer-dimers was calculated. For each patient sample, an optimal list of assays with no predicted primer-dimer was selected, while giving strong priority to assays covering driver SNVs. These remaining assays were used to create 10 balanced pools, each containing the assays for 10 patients' SNVs and on average 20 assays per each patient. Assays were always chosen such that, 1) assays covering driver SNVs had highest priority, and 2) there was uniform sampling of SNVs from branches in the reconstructed phylogeny tree. The final design for baseline cohort consisted of 1835 assays, equally distributed among the 10 pools, and contained 15–20 assays for each sample.

For the longitudinal cohort, up to 10 extra assays were added for adenocarcinoma samples. Designed assays were used to create 5 balanced pools, each containing 5 patients. In total 598 assays were analyzed for the longitudinal cohort.

SNV pool QC

The SNV assays, each consisting of a forward and reverse primer, were ordered from IDT (Coralville, IA) as individual oligos in 96-well plates, desalted and normalized to 100 uM each. The oligos were pooled according to the pooling scheme and each pool was QCed by running the multiplex PCR and sequencing protocol using one plasma cfDNA library from a healthy subject. For each pool, the sequencing data was analyzed to determine the amount of primer-dimer reads and to identify drop-out assays. If a large proportion of sequencing reads result from primer-dimers, the primer-dimer reads were analyzed to determine the primers contributing to dimer formation, and primers that contributed to most primer-dimer reads were removed. A final pool consisting of only the functional assays from each pool was created and used for SNV detection in the corresponding plasma samples.

Analytical validation

Twenty synthetic spikes were mixed at equimolar ratios and used to prepare a library. This library was titrated into a library prepared from mononucleosomal DNA (10,000 copies) from a normal cell line (AG16778 from Coriell, Camden, NJ). The synthetic spikes matched 20 SNVs grouped into Pool 1 of the baseline samples. Each synthetic spike consisted of a 160 bp dsDNA oligo having the SNV at position 80, flanked by the normal sequence at that position in the human genome.

The library of 20 synthetic spikes was titrated into the mononucleosomal DNA library at 2.5%, 0.5%, 0.25%, 0.1%, 0.05% (each in triplicate), and 0.01%, 0.005% and 0.001% (each in quadruplicate); the mononucleosomal library was also run without spikes, in triplicate, as a negative control. Because preparing spiked samples at such low levels is either subject to sampling noise (0.01% spikes into 10,000 genomic copies background is equivalent to one mutant copy) or is not possible (at levels less than 0.01%), samples were mixed as libraries. Furthermore, because the library prep process has an efficiency of ~80%, for low copy mutant samples it would not be possible to know the number of mutant molecules represented in the final library. Library mixing allows the testing of the SNV-detection step without interference from the library-prep step.

Following library mixing and sequencing, the 20 spiked-in SNVs were analyzed. The measured VAF of each spike for the samples with 2.5% nominal input was used to calculate an input correction factor (measured VAF / 2.5%); that was applied to the other inputs of the corresponding spike. The measured VAF differed from the nominal input (for example, 2.5%) most likely because the mononucleosomal fragmentation pattern is not entirely random (so the actual number of DNA fragments that can be detected with a specific PCR assay differs from the average input of 10,000 copies). Because of this, the actual input levels differ from the nominal inputs, and the sensitivity is measured for input intervals. The input intervals were chosen such that there are a meaningful number of samples in each interval.

Plasma SNV analysis

Forty microliters of the extracted cfDNA from each case was used as input into library preparation using the Natera Library Prep Kit, which included blunt-end repair, A-tailing, universal adaptor ligation, PCR amplification to plateau and purification of the amplified material. All purified libraries were QCed on the LabChip GX 5k DNA chip. Successful libraries had a single peak at ~250 bp.

The amplified libraries were then analyzed by mPCR-NGS. PCR primers targeting SNVs detected in the analysis of the tumor samples (up to 20 targets/sample). Optimal PCR conditions for each pool were as described in Jamal Hanjani et al. Ann Oncol. 2016.

Each PCR assay pool was used to amplify the SNV targets from the 10 corresponding samples and 20 negative control samples (plasma libraries prepared from healthy subjects). Each amplicon pool was sequenced on one Illumina HiSeq 2500 Rapid Run with 50 cycles paired-end reads using the Illumina Paired End v1 kit with an average target DOR of ~40,000 per assay.

Statistical methods

Each plasma sequencing run contained 10 cancer samples and 20 negative control samples, all sequenced with the corresponding mPCR pool. The set of SNVs covered by assays in a pool were considered as target SNVs for the associated run. Target assays with <1000 reads in the plasma samples were considered failures and were not analyzed further. At each SNV position, an error model was built using all of the 20 negative control samples plus the 9 cancer samples that were not expected to contain that particular SNV (based on tumor-tissue sequencing). Samples with high plasma VAF (>20%) among the putative negatives were considered to have possible germline mutation and were excluded from the

background error model. A confidence score was calculated for each target SNV based on the background error model. A positive plasma SNV call was made if the calculated confidence for that mutation in the corresponding plasma sample passed our confidence threshold.

The same calling strategy with the same confidence threshold was used to attempt to make SNV calls on the remaining samples (including other cancer samples and control samples) that were not expected to contain the given SNVs. The SNVs that were detected in this way were considered 'false positive'. The false positive rate was 0.24% (at the mutation level).

Tumor tissue and germline DNA SNV analysis

Purified gDNA from tumor subsections and germline DNA samples (extracted by CRUK and normalized to 10 ng/ul) were used to confirm the target SNVs in each patient. For this, the gDNA (70 ng/rxn) was used as input into mPCR using the corresponding primer pools and the same PCR conditions that were used on the plasma libraries. The samples were sequenced on one Illumina HiSeq 2500 Rapid Run with 50 cycles single-end reads using the Illumina Single End v1 kit with an average target DOR of ~4,000 per assay. Sequence data was used to determine the variant allele frequency (VAF) of each of the expected SNV in each sample. The VAF determined in this way was compared to the VAF determined by CRUK.

Example 1 – cfDNA extraction and analysis

The distribution of cfDNA concentrations for the 50 plasma samples (Figure 3) follows the expected distribution based on 5 mL of plasma (median of 2,200 genome copy equivalents per mL of plasma). The cfDNA concentrations, the hemolysis grade (visually estimated) and the qualitative evaluation of the cfDNA size profile (visually estimated from the Bioanalyzer traces) are shown in Table 3.

Example 2 – Variant allele frequency (VAF) analysis in tumour subsections

The sequence data from each of the tumour subsections was analysed to determine the variant allele frequency of each SNV in each tumour subsection, lymph node and matched normal sample. This data was compared with the similar data. For most samples, the tissue VAF values from each tumour subsection closely matched the tissue VAF values determined

(Figure 4). However, there were a large number of samples in which significant discrepancies were seen (Figure 5). Three types of discrepancies are observed:

- (i) For one or two subsections, all the VAFs were 0 or close to 0 in the analysis, but were non-zero (and span the range of VAFs seen in other subsections of the same sample) in the subsequent analysis (e.g.: LTX041, LTX111);
- (ii) For several assays, the VAFs were 0 in analysis, but were non-zero (and span the range of VAFs seen in other subsections of the same sample) in the subsequent analysis, but no clustering by subsection was seen with this discrepancy mode (e.g.: LTX093, LTX074);
- (iii) For several assays or regions, none of the assays failed but concordance between VAFs obtained in the two analyses was generally poor (e.g.: LTX063, LTX059).

Example 3 - Plasma SNV detection

One sample (LTX206, with 19 assays) failed sequencing and was removed from the analysis (this sample will be rescued in a subsequent experiment). 889 assays covering 911 SNVs remained. Assays with a depth of read of less than 1,000 were considered failed, and their corresponding SNVs were marked as "no call". In total 21 "no call" SNVs were removed from the analysis; 890 total SNVs were analysed.

The overall SNV detection rate in plasma was 35.5% (310/890), which is similar to what we observed o the pilot study. The SNVs that were not detected were probably due to the fact that the mutations were not present in the plasma sample. The average mutant allele frequency for the SNVs detected with high confidence was 0.875% (range, 0.011–13.93%). A cancer sample was considered as 'detected in plasma' if ≥1 SNV expected to be present in that sample was confidently detected in plasma. Using this definition, the overall sample detection rate in plasma was 69% (34/49 samples), and for those, and the average number of SNVs detected in plasma was 9.1 (range, 1–19). See Figure 6 for a visual representation of the SNVs detected in plasma. A breakdown by SNV and by sample is shown in Figure 7. The number of SNVs detected in plasma for each sample is shown in Table 4, and the full data for all the SNVs analysed is shown in Table 5. The plasma VAF for the SNVs that were detected from each sample as a function of SNV clonal status is shown in Figure 8.

Example 4 - Additional findings

In addition to target SNVs, we examined every position amplified by our assays both in tumour and plasma. In total, 16 somatic novel SNVs not reported were identified from tissue samples. Among those, 7 were called with their corresponding plasma samples as well. As we used very stringent confidence thresholds to avoid potential false positives, we are highly confident about the detected mutations. They are shown in Table 6.

Example 5 - Factors influencing SNV detection in plasma

Several factors might influence plasma SNV detection. Here, we aimed to determine the factors with the most significant association. Factors analysed for association included: tumour size (Lesion1SizeDer values in Table 5), stage, tumour histological type, lymph node status, vascular invasion, location by lobe of the lung, the SNV frequencies in tumour subsections, clonal information for each SNV and the amount of cfDNA. The multivariate analyses for both sample-level and mutation-level plasma SNV detection are described below. Sample-level analysis aimed to identify factors affecting the number of detected SNVs in a plasma sample. Mutation-level analysis aimed to identify factors affecting the call for a plasma SNV.

Sample-level analyses

Poisson regression analysis, adjusted for over dispersion, indicated a highly statistically significant association between the number of SNVs detected in plasma and the histological type. Estimated model coefficient corresponding to histological type of 1.29 with standard error 0.30 (p-value=2.48e-05). This association did not change when adjusting for tumour size, stage, or site.

We also found a weak association between number of SNVs detected in plasma and tumour size within the same Poisson regression model (estimated model coefficient for tumour size was 0.02 with a standard error of 0.01, p-value=0.0682). Tumour size and stage were correlated, and seem to provide similar information about the number of SNV detectable in plasma. Once tumour size was taken into account, tumour stage appeared to add no additional information that would explain the variation in the number of SNVs detected in plasma (model coefficient for tumour stage was not statistically different from zero at the standard significance level of 0.05, p-value=0.3677).

We interpret the model coefficients as follows. Compared with adenocarcinoma, squamous-cell tumours with the same tumour size, stage, and site have on average exp(1.29)

~ 3.7 times more SNVs detected in plasma. For fixed values of histological subtype, tumour stage and tumour site, an increase in tumour size by one unit (mm) results in a multiplicative increase in SNV count of exp(0.02)=1.02, (an approximate 2% average increase).

In summary, the most important predictor of whether a particular tumour was detected in the plasma appeared to be histological type: 100% of the squamous cell carcinomas (SQCC) were detected in plasma, whereas only 52% (15/29) of the adenocarcinomas (ADC) were detected (Figure 9).

There were only one carcinosarcoma tumour and one adenosquamous tumour in this cohort, so no conclusions about their general detectability in plasma could be derived about those tumour types at this time.

There was no apparent correlation between the amount of cfDNA and the number and proportion of SNVs detected in the plasma samples. However, all samples with high input (>25,000 copies) had ≥1 SNV detected in plasma (Figure 10).

Mutation-level analyses

A regression analysis was performed to determine the variables that can be used to predict detection of mutations in plasma. More specifically, a binary response variable was used to annotate the mutations as 'called' or 'not called'. Mean VAF in tumour refers to the average mutation VAF among all tumour regions. Clonal/subclonal information was determined using PyClone. Logistic regression analysis showed that the following variables had statistically significant association with the detection of a mutation (with p-values <5%):

- Histological type (p=8.3e-30)
- Mean VAF in Tumour (p=4.3e-6)
- Clonal status (p=1.6e-4)
- Size of the tumour (p=3.5e-4)

Histological type had the lowest p-value, implying the strongest association, supporting the observation from the sample-level analysis (Figure 9). The detection rate for SNVs from SQCC was 70% compared with 14% for SNVs from ADC. Mean VAF in tumour was the next significantly associated variable with detection of SNVs in plasma (Figure 11). Clonal status was also correlated with the detection of SNVs in plasma (detection rate was 48% for clonal SNVs vs 22% for subclonal SNVs). Finally, size of tumour also affected the plasma SNV detection rate (also observed in sample-level analysis).

The remaining variables either did not have statistically significant effects on the detection rate or the supposed effect could be explained by the four variables that were already in the model (for example, tumour VAF is sufficient to explain the differences observed in the detection rate among stages).

Example 6 - Analysis of SNVs not detected in plasma

Several lines of evidence support the conclusion that the failure to detect >60% (580 out of 911) of the expected SNVs in the plasma was likely due to those variants not being present in the cfDNA sample, as opposed to some failure of the mPCR/NGS method. We describe these lines of evidence here.

- The depth of read (DOR) distribution was similar for the assays that detected the expected plasma SNV and the ones that did not (average DOR 45,551 for assays that detected the expected SNV vs 45,133 for the ones that did not, Figure 10A). This suggests that assays corresponding to false negative SNV calls were as efficient as those for true positive calls.
- Despite the high depth of read at the target SNV position, the number of mutant reads was low for most positions that were not detected: Of 580 SNVs that were not detected, 207 (36%) had 0 mutant reads, and 414 (71%) had <5 mutant reads. Moreover, all of the undetected positions had an observed mutant VAF of less than 0.1%, and the mutation levels in all cases were indistinguishable from their corresponding background error rate.
- 275 of the 580 SNVs that were not detected belonged to the samples with no plasma mutations, implying that their not being detected could be due to insufficient ctDNA in plasma.
- By estimating the limit of detection (LOD) of each position to be 3 standard deviations from the average background mutant VAF at that position, the distributions of the limit of detections for the true-positive and false-negative SNV positions were similar (Figure 10B). This suggests that if the SNV were present in the sample, it would be detected.

Example 7 - Phylogenetic Trees

To investigate the possibility of being able to recapitulate tumour phylogeny trees from cfDNA data, we examined whether the SNVs detected from plasma were in agreement with the structure of the tumour phylogeny trees reconstructed from tumour tissue data. SNVs detected from plasma can recapitulate tumour phylogeny if they can cover sufficient number of branches in the tree, and their VAF values follow the order of SNVs in the tree—i.e., SNVs located in earlier branches need to have higher VAFs in plasma. More specifically, we define two constraints that should hold for SNVs detected from plasma to be in agreement with the structure of tumour phylogeny tree reconstructed from tissue data:

Constraint 1) For every branch in tree with detected SNV(s) in plasma, the sum of the estimated cancer cell fractions (CCF) of its children branches in tree should not exceed the CCF of that branch

Constraint 2) For every pair of SNVs A and B detected in plasma, if SNV A belongs to a predecessor branch of SNV B, it should have a higher plasma VAF compared with SNV B

The SNV allele-fraction based on tissue data for each tumour sample was used to reconstruct tumour phylogeny tree using LICHeE. Later, plasma VAF data for detected SNVs was used to evaluate the correctness of constraints 1 and 2 for each sample. To assess the correctness of constraint 1, first we estimated a plasma cancer cell fraction (CCF) for each branch in the tree based on the plasma VAF of detected SNVs in that branch. Then we counted the number of branches in tree with SNVs detected in
plasma that constraint 1 is valid for them. To assess the correctness of constraint 2, we measured the ratio of all pairs SNVs where one is predecessor of the other and constrain 2 is valid for them.

The results for correlation between plasma SNV data and tumour phylogeny trees for all 49 samples studied here are summarized in Table 7. Since this investigation for samples with very few SNVs detected in plasma is not relevant, in Figure 11A and 11B we present our results for samples with at least 10 SNVs detected in plasma. Figure 11A shows the total number of branches in tree and the number of branches detected in plasma. For 7 out of 17 samples all branches of tree were detected in plasma. Figure 11A also shows the majority of detected branches have valid CCF estimation meaning constraint 1 is often valid for detected branches. Figure 11B shows the percentages of SNV pairs that one is predecessor of another in tumour tree and their plasma VAF values confirm the tree structure meaning constraint 2 is valid for them. As it can be seen this percentage is $\geq$80% for 12 out of 17 samples.

Example 8 - Barcodes

Background

Through multi-regional whole exome sequencing of resected NSCLC and processing of sequencing data through a bioinformatic pipeline somatic single nucleotide variants (SNVs) are identified and subclonal deconstruction performed to identify whether mutations were subclonal or clonal. Individual mutations are timed as early, late or untimed based on genome doubling events using temporal analysis.

Using "bespoke" variant panels based on barcoding subclonal clusters to track the phylogeny of NSCLC relapse

As in Examples 1 to 7 above, based on multi-regional whole exome sequencing data, subclonal deconstruction and phylogenetic tree analysis, clonal and subclonal variant clusters are identified. Unpublished data shows that NSCLC relapse may be monoclonal and originate from an early truncal clone or specific-subclone, or that relapse may be polyclonal originating from multiple subclones. Through barcoding all variant clusters present in the phylogenetic trees (i.e. having SNVs private to individual clusters represented within a primer assay pool) it has been demonstrated that cfDNA can predict which "part" of the tumour and therefore subclonal population gives rise to the relapse. For example, if the SNVs detected in plasma corresponds to specific subclonal clusters in one branch of the original phylogenetic tree, then it can be inferred that this branch is "seeding" disease relapse. Through using our phylogenetic barcodes, we can track back to the biology of that specific branch and identify therapeutically relevant drivers of relapse that might be used to alter or adapt therapy in the early disease setting. Targeting these drivers of relapse with small molecules or immunotherapies, when disease bulk is low may potentially overcome later problems associated with intratumour heterogeneity driven by the volume of disease and an expanding cancer cell population, that could lead to better patient outcomes.

Generating translationally relevant "high-sensitivity" barcodes to predict relapse, minimal residual disease, treatment responses and determine the clonality and relative size of subclones containing therapeutically relevant variants

As a refinement of the above, targeted sequencing or single-sample whole exome sequencing can be used to generate "early-clonal" barcodes from genomic regions of NSCLC that have been determined to correspond to a high-likelihood of detection in plasma (based on a rational understanding of NSCLC biology). Since early-clonal variants (pre-genome doubling) will be present throughout the NSCLC tumour and amplified due to genome doubling events, a barcode predicted based on these early events before genome doubling will provide maximum sensitivity in terms of a biomarker predictive of NSCLC disease activity and recurrence. This approach will be more clinically applicable due to no pre-requisite requirement for multi-regional sequencing and will have a faster turnaround than the above, therefore being more applicable as a biomarker of recurrence and disease activity in the adjuvant and metastatic disease settings.

To gain maximum sensitivity in identifying minimal residual disease the "early-clonal" barcodes will focus on identifying somatic SNVs in genes classified as being high-confidence early (pre-genome doubling) events in NSCLC carcinogenesis (examples in Table 1) and also identifying somatic SNVs in chromosomal regions classified as being involved in high-confidence early (pre-genome doubling) amplification events (examples in Table 1). Furthermore, mutational signatures may be used to identify variants statistically more likely to be clonal (e.g. signature 4 variants in lung squamous cell carcinoma) (see Table 2).

Once generated this "early-clonal" barcode will be used to generate a bespoke primer panel for that patient based on 30-40bp amplicon size that covers SNVs determined to be a part of that patient's personal barcode. This primer panel will be used to amplify cell-free DNA libraries. Amplicons will then be sequenced and mutant variants identified. It is envisaged that each panel could then be validated in a pre-surgical plasma sample (e.g. when tumour is in situ). Validated panels will then be used on plasma samples taken 2-6 weeks post-operatively to identify minimal residual disease which will provide prognostic information and potentially identify patients who would benefit from adjuvant chemotherapy. Validated panels will also be used as an inference of tumour bulk and response to adjuvant or palliative chemotherapy. If variant allele frequency of mutants rises during adjuvant or palliative chemotherapy then lack of response could be inferred and treatment could be escalated or altered (to a different treatment modality). If variant allele frequency of mutants falls during adjuvant or palliative chemotherapy then chemotherapy, immunotherapy or targeted therapy doses could be decreased, especially within the context of toxicity. At the point of relapse detection for select patients a primer panel that "barcodes" the subclonal structure of the tumour can be utilised to identify subclonal drivers of relapse that may be

amenable to targeted therapy e.g. ERBB2 amplification. Early-clonal barcodes will also be used to monitor immunotherapy, targeted therapy, adoptive cellular therapy, chemotherapy and cancer vaccinations that specifically target the trunk of the tumour.

In the primary and metastatic setting a single biopsy may not provide insight into the breadth of actionable alterations, neo-antigens or potential resistance mechanisms present within the bulk of a patient's disease. Clonal alterations may be lost in a specific tumour region due to copy number events and subclonal alterations may not be represented in a single biopsy. Utilisation of a generic ctDNA driver panel, generic ctDNA resistance mechanism panel or generic ctDNA neoantigen encoding variant panel to probe ctDNA may be performed to identify therapeutically relevant mutations not represented in a single tumour biopsy. The bespoke early-clonal barcode could act as a companion diagnostic tool to determine the therapeutic value of variants not represented in tissue, but identified in plasma by a generic panel. For example, by comparison of the variant allele frequencies of high confidence clonal mutations present in the early-clonal barcode with unknown clonal status mutations identified by generic panels, the clonality of non-tissue represented mutations can be inferred. Furthermore, the cancer cell fraction of a subclonal variant in tissue correlates with the plasma variant allele frequency of said variant. Therefore, the size of a subclone containing a driver, resistance conferring or neoantigen encoding variant, relative to the whole tumour bulk, can be inferred by utilising an early-clonal barcode as a comparison diagnostic tool. This approach may have therapeutic value in identifying and monitoring drivers, resistance mechanisms and neoantigens during treatment and selecting actionable drivers, resistance mechanisms and neoantigens to target with chemotherapy, targeted therapy, dendritic cell vaccines, autologous T Cell therapy and CAR-T cell therapy.

Tracking clonal SNVs that encode for neoantigens in a patient specific barcode

Cytotoxic CD8 and CD4 tumour infiltrating T cells can recognise neoantigens encoded for by tumour SNVs. Clonal neoantigens represent an attractive therapeutic target not confounded by intra tumour heterogeneity (Mcgranahan et al. Science 2016). Adoptive T-cell strategies and cancer vaccinations could be utilised to target clonal neoantigens. Neoantigens can be predicted using bioinformatic approaches. Neoantigen reactive T cells can be identified using MHC multimers that display synthesised peptides encoded for by high confidence neoantigens. Incorporating SNVs that encode for high confidence neoantigens as determined through bioinformatic analysis or neoantigens identified in vitro as being a target for neoantigen reactive T cells, into a patient specific cfDNA barcode, could allow for non-

invasive monitoring of adoptive T cell therapy and cancer vaccine approaches through cfDNA genotyping.

Example 9

Methods

Patients

Multiregion tumor samples were collected from 100 treatment naïve patients. Eligible patients were ≥18 years with a diagnosis of stage IA-IIIA NSCLC, with the exception of patient LTX0103 whose tumor was found to be stage IIIB based on post-operative histology. Patients with a malignancy diagnosed or relapsed within 5 years, or those who had received neoadjuvant treatment, were excluded. Histological data were confirmed and standardized by central review. Baseline Positron Emission Topography (PET) CT scans were collected and standardized by central review. Pre-surgical and post-operative plasma samples were collected and processed.

cfDNA genotyping

Clonal and subclonal SNVs were identified from each patient's baseline exome phylogenetic tree. These SNVs were processed by the standard assay design pipeline and 10 balanced assay pools were created, each containing 10 patients' SNVs and on average 20 assays per patient. Up to 5 mls of plasma was available for each case and timepoint. cfDNA was extracted from plasma and underwent library preparation. Amplified libraries were analyzed by mPCR-NGS. Each PCR assay pool was used to amplify the SNV targets from the 10 corresponding samples and 20 negative control samples (plasma libraries prepared from healthy subjects). Each amplicon pool was sequenced on one Illumina HiSeq 2500 Rapid Run with 50 cycles paired-end reads using the Illumina Paired End v1 kit with an average target DOR of ~40,000 per assay.

Results

Patient-specific multiplex-PCR panel generation

A workflow was designed to facilitate the generation of personalised multiplex-PCR assay pools for the first 100 patients prospectively (Figure 1). Panels were designed for 96/100 of these patients (Figure 12). During panel design assay pools were enriched for target driver (category 1a to 2a) variants and designed to ensure uniform sampling of each individual reconstructed tumour phylogenetic tree. The median number of assays within each personalised assay pool was 18 (IQR = 2) of these a median of 11 (IQR = 8) assays were directed toward truncal variants designated as clonal by exome analysis workflow and a median of 6 (IQR = 8) assays were directed toward branch specific variants designated as subclonal, "barcoding" subclonal phylogenetic clusters (Figure 12). On average 65% of the exome constructed phylogenetic tree was represented by variants targeting one or more subclonal variant clusters. A total of 1748 single nucleotide variants (SNVs) were probed within the baseline pre-surgical cohort and 3172 SNVs were probed in the relapse cohort.

Distinct biological factors predict early-stage NSCLC detection in plasma

Pre-operative plasma samples were analysed using the patient-specific multiplex-PCR NGS workflow. A patient's NSCLC was deemed confidently detected if two or more clonal SNVs were identified through profiling of their cfDNA. On this basis 45/96 stage I-IIIA NSCLCs were detected pre-operatively (Figure 13). Within detected NSCLCs, the median percentage of clonal SNVs identified within assay pools was 94% (IQR= 37%), the median percentage of subclonal SNVs identified was 29% (IQR = 57%) (Figure 13). Clonal SNVs were more likely to be identified as present in plasma than subclonal ($P<0.001$, OR = 5.237, [CI 95% 3.9-7.1]).

LUSC histological subtype was observed to be a significant predictor of ctDNA detection (Figure 13). 30/31 LUSCs were detected, compared with 10/58 LUADs ($P<0.001$, OR=144 [95% CI 17.5-1182.6]). This observation remained significant in multivariate analysis (MVA) adjusted for composites of pathological TNM stage (tumour volume and nodal involvement), number of clonal mutations in each assay pool and total cfDNA input (ng) ($P<0.001$, OR = 178.3, [95% CI 19.7 – 1612.1]). Lymph node involvement was also a significant predictor in this model (Table 2). Notably, the multiplex-PCR NGS platform was able to detect 16/17 TNM stage I LUSCs within this cohort compared with only 4/39 stage I LUADs (Figure 13).

Biological factors that might influence ctDNA release through comparison of features that characterise these histological subtypes were assessed. LUSC, in contrast to LUAD, is a commonly necrotic NSCLC subtype and consistent with this, LUSCs present within the cohort

were more necrotic than LUADs as determined by histological examination (median necrosis 40% versus 2%, Mann-Whitney U Test P<0.001). Consistent with the importance of necrosis, detected LUADs were significantly more necrotic than undetected LUADs (median necrosis 17.5% versus 2%, Mann-Whitney U Test P = 0.004). Similar to previous studies of early-stage NSCLC, LUSCs were more PET avid than LUADs (median Tumour Background Ratio (TBR) 9.0 versus 4.6 Mann-Whitney U Test P<0.001) (8, 9) and PET avidity was significantly higher in detected LUADs compared with non-detected LUADs (median TBR 10.2 compared with 3.6, Mann-Whitney U Test P=0.001). Both necrosis and PET avidity were the only significant predictors of LUAD detection in a sub-group MVA performed to ascertain the effects of necrosis, PET TBR, lymph node involvement, tumour volume, number of clonal mutations in each assay pool and total cfDNA input (ng) (Table 3). Since PET avidity in stage I NSCLC correlates with tumour doubling time and hypoxic necrosis occurs in rapid proliferating tumours, we hypothesised that high cell turnover could contribute to these observations (10). Ki67 immunohistochemistry performed on a tissue microarrays of the cohort revealed a higher number of Ki67 positive cells in LUSCs compared with LUADs (median percent of Ki67+ cells 50% in LUSCs versus 4% in LUAD, Mann-Whitney U Test P<0.0001) and detected LUADs demonstrated significantly higher Ki67 positivity than non-detected LUADs (median percent of Ki67+ cells 65% in detected LUADs versus 3% in non-detected LUADs, Mann-Whitney U Test P=0.007) (Figure 14). Detected LUADs were also observed to have a significantly higher number of peripheral mitotic figures per high power field (HPF) than undetected LUADs on blinded histological review (Mann-Whitney U Test P<0.001) (Figure 14). Taken together, these data suggest that biological factors governing tumour specific cell cycle kinetics inherent to LUSCs, present in a sub-population of LUADs governs ctDNA release, rather than TNM stage or technical factors.

Notably 8/10 detected LUADs demonstrated solid predominant histology, a LUAD subtype associated with higher rates of proliferation and a worse prognosis, no lepidic predominant LUADs were detected (Figure 14).

Variant allele frequency is associated with tumour size, clonality and copy number status

Factors involved in the frequency of variant detection within the plasma of the confidently detected patients with confidently detected tumours was determined. Variant allele frequencies (VAFs) of detected mutations showed significant inter-patient heterogeneity (Figure 15A). Mean clonal VAF significantly correlated strongly with tumour volume (Spearman's Rank $R_S(42) = 0.60$, P<0.001) (Figure 15C); LTX201 and LTX240 were outliers

within the context of this observation. LTX201 is an adeno-squamous carcinoma and was determined to be predominantly LUAD on histological review. Given our previous observations regarding limited ctDNA detection from LUADs this raises the possibility that only the LUSC component of this tumour was releasing ctDNA. LTX240 was a large tumour that on radiological review was noted to consist of a rim of PET avid tumour surrounding a large necrotic cavity, highlighting limited viable tumour volume (Figure 15D). There was no observed association between percentage of necrosis on histological examination, lymph node involvement, PET TBR, histological subtype, cfDNA input quantity and tumour location (central, peripheral, upper/middle or lower lobe) with mean clonal VAF in univariate analyses. Normalisation of VAF was performed to control for the effect of tumour size, we noted that SNVs designated as clonal had significantly higher normalised VAFs than SNVs designated as subclonal (median VAF for clonal SNVs 1 ± 0.74 versus 0.32 ± 0.6 for subclonal SNVs, Mann-Whitney U Test $P<0.001$) (Figure 15B). Notably the mean Cancer Cell Fraction of a detected subclonal variant across regions sampled for m-seq correlated with normalized plasma VAF suggesting that subclone size can be inferred from plasma VAF and we observed that the copy number status of detected SNVs correlated with normalised plasma VAF (Figure 16).

Given the observed difference in VAF between clonal and subclonal mutations whether plasma genotyping could act as a companion diagnostic tool to a single-region biopsy in order to infer clonality of detected driver variants was determined.

ctDNA detection heralds relapse in the adjuvant setting

A recurrence sub-cohort of 25 patients (13 patients whom within this 96 patient cohort suffered clinical recurrence of their NSCLC within the time-frame of this study and 12 controls). Plasma samples from this cohort donated at regular intervals within the post-operative setting were subject to cfDNA genotyping in a blinded fashion. 12 out of 13 NSCLC relapses were detected in plasma (Figure 17). The undetected relapse case (LTX102) was notably a lepidic predominant LUAD with a low wgII score, in our baseline data we noted that ctDNA was unable to detect tumours with similar characteristics. Defining molecular relapse as the detection of two clonal SNVs in the post-operative setting achieved the highest sensitivity and specificity in terms of identifying relapse (92% and 83% respectively) as compared with utilising other SNV thresholds (Table 10). Notably two clonal SNVs were detected in the plasma of two control cases; LTX013 and LTX210. The detection of an increasing number of tumour specific SNVs, on two occasions in the plasma of LTX013 is concerning for sub-clinical progression that could potentially manifest clinically with longer follow-up (Figure

18A). LTX210 demonstrated evidence of minimal residual disease with tumour specific SNVs detectable at 48 hours and 38 days after surgery. Following commencement of adjuvant chemotherapy and radiotherapy evidence of complete molecular response was observed (Figure 18L). No evidence of molecular relapse was observed in the remaining 10 control cases (Figure 18).

The median interval between the detection of molecular relapse and clinical relapse (lead time) was significantly longer in LUSCs compared with LUADs (median lead time in LUSCs 116.5 days (IQR = 122.25, n=4) versus LUADs 20.5 days (IQR = 44.25, n = 8), Mann-Whitney U Test P=0.048). Notably the outlier for the LUAD cohort was LTX046, which was detected in plasma 290 days prior to the confirmation of clinical relapse. In this case a CT Thorax and Abdomen had been performed 133 days prior to confirmed relapse, for surveillance of a lung nodule (annotated in Figure 17M). This CT had demonstrated an equivocal sclerotic focus in a thoracic vertebra and an interval CT scan to monitor this lesion was arranged. Companion cfDNA genotyping at this time point could have supported clinical relapse, perhaps leading to earlier initiation of anti-EGFR monotherapy.

Tracking tumour evolution through plasma cfDNA genotyping

Subclonal node "barcoding" strategy used to non-invasively monitor NSCLC evolutionary dynamics occurring at the point of disease relapse was determined. In pre-surgical plasma samples a mean percentage of 55% (SD ± 35%, range 0-100%) barcoded subclonal clusters were represented in the plasma of detected LUSCs and a mean percentage of 26% (SD ± 37%, range 0-100%) barcoded subclonal nodes were represented in the plasma of detected LUADs suggesting that cfDNA genotyping can be utilised to monitor tumour phylogenetic structure in plasma (Figure 19). In LTX019 two F1 subclonal nodes (defined as subclonal nodes sharing the clonal node as their most recent ancestor) were barcoded in the assay pool. Only one of these nodes was represented in the pre-surgical plasma suggesting that this was the dominant branch of the phylogenetic tree in the primary tumour. At relapse the undetected F1 subclonal node was pervasive in plasma (Figure 20). Interestingly, exome analysis of the primary tumour revealed this node contained a subclone specific amplification in 11p13 involving *CD44*, a lymphocyte homing receptor, thought to be involved in preparation of the pre-metastatic niche. In LTX038, both branches of the barcoded exome phylogenetic tree were detectable at baseline in plasma. At relapse, only a single branch was detectable and variants barcoding subclonal nodes on this branch were detected at significantly higher frequencies in plasma. Notably an F4 subclonal node that enriched in

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plasma at the point of relapse contained a *Notch1* driver mutation (Figure 20). Unfortunately, this patient declined rapidly following their relapse and tissue from this site was not available for exome analysis.

The term "comprise" and variants of the term such as "comprises" or "comprising" are used herein to denote the inclusion of a stated integer or stated integers but not to exclude any other integer or any other integers, unless in the context or usage an exclusive interpretation of the term is required.

Any reference to publications cited in this specification is not an admission that the disclosures constitute common general knowledge in Australia.

Table 1

Early clonal drivers LUSC (squamous cell carcinoma)	Early clonal drivers LUAD (lung adenocarcinoma)
• TP53 • NOTCH1 • WT1 • PTEN • FBXW7 • KMT2D • SMAD4 • LATS1 • KEAP1 • CREBPP	• TP53 • KRAS • EGFR • PRDM1 • MET • BRAF • TSC2 • PHOX2B • FBX2W7 • CHEK2 • APC • RBM10 • BCOR • KEAP1 • STK11
Early clonal amplification chromosome arms in squamous cell carcinoma. Genes of particular interest highlighted in parenthesis.	**Early clonal amplification chromosome arms in lung adenocarcinoma. Genes of particular interest highlighted in parenthesis.**
• 3q (SOX2,PIK3CA,FOXL2) • 5p (TERT, IL-7R) • 8q (FGFR1, MYC) • 11q (CCND1) • 19q (CD79A, AKT2) • 2p	• 5p (TERT) • 7p (EGFR) • 8q (HEY1, RSPO2, COX6C) • 12p (KRAS) • 14q (NKX2-1,FOXA1) • 1q • 17q

Table 2

Early Mutational Signatures LUSC (squamous cell carcinoma)	**Early Mutational Signatures LUAD (lung adenocarcinoma)**
• Signature 4 (Smoking)	• Signature 4 (Smoking)
Subclonal Mutational Signatures LUSC (Squamous Cell Carcinoma)	**Subclonal Mutational Signatures LUAD (lung adenocarcinoma)**
• Signature 1A (mitotic clock) • Signature 2 and 13 (APOBEC)	• Signature 1A (mitotic clock) • Signature 2 and 13 (APOBEC)

Table 3

Sample	BA total	DNA
LTX001	289.5	11.58
LTX013	12.7	0.508
LTX015	76.5	3.06
LTX021	73.9	2.956
LTX022	41.4	1.656
LTX025	57.2	2.288
LTX028	94	3.76
LTX032	78	3.12
LTX033	50.1	2.004
LTX034	73.8	2.952
LTX036	27.4	1.096
LTX038	124.6	4.984
LTX041	32.8	1.312
LTX046	29.7	1.188
LTX048	29	1.16
LTX049	18	0.72
LTX055	16.6	0.664
LTX058	26.1	1.044
LTX059	33.7	1.348
LTX062	29.5	1.18
LTX063	82.5	3.3
LTX065	11.8	0.472
LTX073	18.1	0.724
LTX074	101.5	4.06
LTX075	15.6	0.624
LTX076	33	1.32
LTX084	75.5	3.02
LTX085	10.9	0.436
LTX091	26.5	1.06
LTX092	12.2	0.488
LTX093	34.8	1.392
LTX097	36.3	1.452
LTX102	19.2	0.768
LTX103	18.5	0.74
LTX107	29.3	1.172
LTX111	20	0.8
LTX115	48.2	1.928
LTX120	65	2.6
LTX126	269.9	10.796
LTX135	8.5	0.34
LTX144	3.4	0.136
LTX149	155.6	6.224
LTX160	10	0.4
LTX163	12.9	0.516
LTX165	20	0.8
LTX175	16.3	0.652
LTX180	20.6	0.824
LTX185	39.8	1.592

LTX210	17	0.68

Table 4A

SampleName	mutation_id	Pool	Chr	Pos	Ref	Mut	RefVAF	MutVAF	DOR	MutDOR	CALL	driver category	PyCloneCluster
LTX001	LTX001:11:108122671:T	2	11	108122671	T	C	0.99978	0.00015829	82128	13	0	1	C
LTX001	LTX001:18:47806296:T	2	18	47806296	T	A	0.99991	0	23429	0	0	2	C
LTX001	LTX001:12:25398284:C	2	12	25398284	C	A	0.9993	0.00019089	73340	14	0	1	C
LTX001	LTX001:3:43095052:C	2	3	43095052	C	G	0.99927	0.00011176	17895	2	1	4	C
LTX001	LTX001:6:43322883:C	2	6	43322883	C	G	0.99963	0.00010899	45876	5	1	4	C
LTX001	LTX001:17:72436822:G	2	17	72436822	G	T	0.99963	0.00008326	24021	2	0	4	C
LTX001	LTX001:16:56976054:G	2	16	56976054	G	T	0.99956	0.000050606	59282	3	0	2	S
LTX001	LTX001:2:55920855:A	2	2	55920855	A	T	0.99985	0	26187	0	0	4	S
LTX001	LTX001:3:151046539:G	2	3	151046539	G	C	0.99974	0.000026481	37763	1	0	4	S
LTX001	LTX001:2:96933576:G	2	2	96933576	G	C	0.99953	0	33961	0	0	4	S
LTX001	LTX001:12:118293344:C	2	12	118293344	C	A	0.99972	0.000031241	32009	1	0	4	S
LTX001	LTX001:3:42672772:G	2	3	42672772	G	C	0.99961	0	59620	0	0	4	S
LTX001	LTX001:1:144922008:G	2	1	144922008	G	C	0.99978	7.6031E-06	131526	1	0	3	S
LTX001	LTX001:15:42052629:C	2	15	42052629	C	T	0.99962	0.00033556	92382	31	0	2	S
LTX001	LTX001:12:133306622:C	2	12	133306622	C	G	0.99955	0	22347	0	0	4	S
LTX001	LTX001:19:46269066:G	2	19	46269066	G	C	0.99939	0	4882	0	0	4	S
LTX001	LTX001:1:23763111:C	2	1	23763111	C	A	0.9998	0	39791	0	0	4	S
LTX012	LTX012:12:1009651:C	9	12	1009651	C	G	0.998945047	0.00078094	72989	57	1	4	C
LTX012	LTX012:3:431037:C	9	3	431037	C	A	0.9985833	0.001051571	68469	72	1	4	C
LTX012	LTX012:5:158223429:G	9	5	158223429	G	T	0.999087622	0	59186	0	0	2	C
LTX012	LTX012:8:93003952:C	9	8	93003952	C	A	0.999682498	1.32293E-05	75590	1	0	3	C
LTX012	LTX012:19:36212005:G	9	19	36212005	G	T	0.997443084	0.002212716	20337	45	1	3	C
LTX012	LTX012:8:17726111:T	9	8	17726111	T	A	0.999214635	0.000134087	52205	7	0	4	C
LTX012	LTX012:4:164246802:C	9	4	164246802	C	A	0.998951201	0.000789545	84859	67	1	4	C
LTX012	LTX012:1:205631234:C	9	1	205631234	C	A	0.999133657	0.000433171	20777	9	1	2	C
LTX012	LTX012:7:120373029:G	9	7	120373029	G	T	0.998416603	0.00066103	65050	43	1	4	C

LTX012	LTX012:9:37020745:G	9	9	37020745	G	T	0.998393494	0.001364819	70339	96	1	2	C
LTX012	LTX012:7:40789062:G	9	7	40789062	G	T	0.999667774	1.58203E-05	63210	1	0	4	C
LTX012	LTX012:1:11174405:C	9	1	11174405	C	T	0.999251372	0.000720901	72132	52	1	2	C
LTX012	LTX012:1:111060896:C	9	1	111060896	C	A	0.997869271	0.001866745	106067	198	1	4	C
LTX012	LTX012:16:64981840:C	9	16	64981840	C	T	0.99956869	0.00043131	62600	27	0	2	C
LTX012	LTX012:1:3328693:G	9	1	3328693	G	T	1	0	2109	0	0	3	C
LTX012	LTX012:12:48387627:C	9	12	48387627	C	T	0.999386503	0.000477164	14670	7	0	1	C
LTX012	LTX012:7:101844729:G	9	7	101844729	G	A	0.998982978	0.000856439	18682	16	0	2	C
LTX012	LTX012:8:42179593:G	9	8	42179593	G	A	0.999642016	0.000303744	92183	28	0	2	C
LTX012	LTX012:1:115256530:G	9	1	115256530	G	T	0.998101795	0.001447783	31082	45	1	1A	C
LTX013	LTX013:5:15937258:G	4	5	15937258	G	A	0.99952	0.00044307	49653	22	0	4	C
LTX013	LTX013:10:105147056:C	4	10	105147056	C	T	0.99924	0.00066806	77837	52	0	4	C
LTX013	LTX013:8:38205421:T	4	8	38205421	T	A	0.99976	0.000059108	84591	5	0	3	C
LTX013	LTX013:3:183994479:T	4	3	183994479	T	C	0.99976	0.00020355	29477	6	0	4	C
LTX013	LTX013:6:127768763:T	4	6	127768763	T	A	0.99977	0.00012315	64964	8	0	4	C
LTX013	LTX013:17:18154751:C	4	17	18154751	C	T	0.9995	0.00049793	12050	6	0	4	C
LTX013	LTX013:23:11414751:C	4	23	11414751	C	T	0.99963	0.00034658	37509	13	0	4	
LTX013	LTX013:9:133730371:A	4	9	133730371	A	G	0.99963	0.00025571	50838	13	0	2	C
LTX013	LTX013:2:152403968:C	4	2	152403968	C	T	0.99929	0.00068943	97182	67	0	4	C
LTX013	LTX013:6:13316860:G	4	6	13316860	G	C	0.99889	0.00084515	48512	41	1	4	C
LTX013	LTX013:16:29706404:C	4	16	29706404	C	T	0.99969	0.00030656	3262	1	0	4	S
LTX013	LTX013:14:31592236:G	4	14	31592236	G	A	0.99977	0.00021349	60894	13	0	4	S
LTX013	LTX013:23:150348926:G	4	23	150348926	G	A	0.99813	0.0018372	34291	63	1	4	
LTX013	LTX013:23:117044028:C	4	23	117044028	C	T	0.99968	0.0002702	40710	11	0	4	
LTX013	LTX013:14:74988688:C	4	14	74988688	C	T	0.99971	0.00024672	48639	12	0	4	S
LTX015	LTX015:3:186501407:G	5	3	186501407	G	T	0.95402	0.045714	7525	344	1	2	C
LTX015	LTX015:18:61262379:G	5	18	61262379	G	T	0.98987	0.009867	67498	666	1	2	C
LTX015	LTX015:17:7578394:T	5	17	7578394	T	C	0.98928	0.010717	12037	129	1	1	C
LTX015	LTX015:3:130285569:G	5	3	130285569	G	T	0.98554	0.014219	66601	947	1	4	C

LTX015	LTX015:8:104388139:G	5	8	104388139	G	T	0.98607	0.013651	61972	846	1	4	C
LTX015	LTX015:3:178917564:T	5	3	178917564	T	C	0.98901	0.010976	57579	632	1	2	C
LTX015	LTX015:2:10350625:G	5	2	10350625	G	T	0.99137	0.0083809	43432	364	1	4	C
LTX015	LTX015:16:2014284:G	5	16	2014284	G	A	0.99542	0.00455	35824	163	1	2	C
LTX015	LTX015:22:32894496:T	5	22	32894496	T	A	0.9995	0.00038863	46317	18	1	4	S
LTX015	LTX015:11:6790165:C	5	11	6790165	C	A	0.99633	0.0033619	64845	218	1	4	S
LTX015	LTX015:12:71898461:G	5	12	71898461	G	T	0.99931	0.00059812	31766	19	1	4	S
LTX015	LTX015:14:70246051:G	5	14	70246051	G	T	0.997	0.0026511	49036	130	1	4	S
LTX015	LTX015:19:52568449:G	5	19	52568449	G	T	0.99962	0.0001145	61137	7	0	4	S
LTX015	LTX015:13:49027177:C	5	13	49027177	C	T	0.99912	0.00081371	60218	49	1	2	S
LTX015	LTX015:17:10354175:C	5	17	10354175	C	G	0.99982	0.000013747	72741	1	0	4	S
LTX015	LTX015:4:71066286:C	5	4	71066286	C	G	0.99966	0.00011917	58742	7	1	3	S
LTX015	LTX015:8:94935116:G	5	8	94935116	G	C	0.99625	0.003354	40251	135	1	4	S
LTX015	LTX015:3:193120500:A	5	3	193120500	A	C	0.99944	0.00041317	77450	32	1	4	S
LTX015	LTX015:5:7626280:A	5	5	7626280	A	T	0.99753	0.0022905	51517	118	1	4	S
LTX019	LTX019:5:142258975:G	7	5	142258975	G	T	0.9949571	0.004745229	57110	271	1	3	C
LTX019	LTX019:7:127013601:T	7	7	127013601	T	A	0.99791814	0.001885458	50916	96	1	4	C
LTX019	LTX019:9:18928351:C	7	9	18928351	C	A	0.993810787	0.004420866	4524	20	1	4	C
LTX019	LTX019:9:136231864:G	7	9	136231864	G	C	0.997399547	0.002243939	47684	107	1	4	S
LTX019	LTX019:17:29576091:C	7	17	29576091	C	G	0.998472949	0.001172557	36672	43	1	1A	S
LTX019	LTX019:15:78921901:A	7	15	78921901	A	C	0.997916184	0.001786128	30233	54	1	4	C
LTX019	LTX019:3:119530387:G	7	3	119530387	G	T	0.996768236	0.003099855	15162	47	1	4	C
LTX019	LTX019:8:42821731:C	7	8	42821731	C	G	0.998178584	0.001694341	47216	80	1	2	C
LTX019	LTX019:2:100168048:T	7	2	100168048	T	C	0.99720883	0.00279117	7882	22	1	2	C
LTX019	LTX019:4:153249457:G	7	4	153249457	G	A	0.998344569	0.001615541	50138	81	1	1A	C
LTX019	LTX019:22:41574949:G	7	22	41574949	G	C	0.998610749	0.001259008	46068	58	1	1A	S
LTX019	LTX019:19:39914989:T	7	19	39914989	T	G	0.997752032	0.002132688	17349	37	1	4	S
LTX019	LTX019:2:47637426:T	7	2	47637426	T	A	0.998199473	0.001736223	46653	81	1	1	C
LTX019	LTX019:8:62212481:C	7	8	62212481	C	A	0.99663574	0.002970011	38047	113	1	4	S

LTX019	LTX019:17:40870017:C	7	17	40870017	C	A	0.997392806	0.002254871	56766	128	1	2	C
LTX019	LTX019:2:74733940:C	7	2	74733940	C	G	0.998324132	0.001163249	50720	59	1	4	S
LTX019	LTX019:14:31602819:C	7	14	31602819	C	G	0.99905962	0.000649717	58487	38	1	4	S
LTX019	LTX019:11:119547900:C	7	11	119547900	C	G	0.999546199	7.89219E-05	50683	4	0	4	S
LTX019	LTX019:11:55587191:T	7	11	55587191	T	G	0.999826456	3.85654E-05	51860	2	0	4	S
LTX021	LTX021:9:95179143:G	3	9	95179143	G	A	0.99965	0.00030065	56545	17	0	2	S
LTX021	LTX021:5:158140143:T	3	5	158140143	T	G	0.99971	0	54965	0	0	2	C
LTX021	LTX021:5:149514547:C	3	5	149514547	C	A	0.99942	0.000033328	60010	2	0	2	C
LTX021	LTX021:1:232172482:G	3	1	232172482	G	T	0.99946	0.000021465	46587	1	0	4	S
LTX021	LTX021:8:48626203:G	3	8	48626203	G	T	0.99971	0	64453	0	0	4	S
LTX021	LTX021:6:161143509:C	3	6	161143509	C	A	0.99984	0	63619	0	0	4	S
LTX021	LTX021:23:76938197:C	3	23	76938197	C	A	0.99951	0	28542	0	0	1	
LTX021	LTX021:13:114748827:G	3	13	114748827	G	T	0.99953	0.00010115	29658	3	0	4	S
LTX021	LTX021:23:37312417:C	3	23	37312417	C	A	0.99966	0	84581	0	0	4	
LTX021	LTX021:14:94420800:T	3	14	94420800	T	A	0.99982	0.000022211	45023	1	0	4	S
LTX021	LTX021:7:126173825:G	3	7	126173825	G	C	0.99968	0.000033995	58832	2	0	4	S
LTX021	LTX021:12:12006363:G	3	12	12006363	G	C	0.99964	0.000013319	75082	1	0	3	S
LTX021	LTX021:17:17700179:C	3	17	17700179	C	G	0.99993	0	13594	0	0	4	S
LTX021	LTX021:23:144906375:T	3	23	144906375	T	A	0.9997	0.00015063	79666	12	0	4	
LTX021	LTX021:17:72859324:T	3	17	72859324	T	A	0.9997	0	30288	0	0	4	S
LTX021	LTX021:12:112528627:C	3	12	112528627	C	G	0.99966	0	64535	0	0	4	S
LTX021	LTX021:2:45826689:T	3	2	45826689	T	G	0.99978	0	54921	0	0	4	S
LTX021	LTX021:3:148924116:T	3	3	148924116	T	G	0.99941	0	83191	0	0	4	S
LTX021	LTX021:1:150256855:G	3	1	150256855	G	C	0.99974	0	74213	0	0	4	S
LTX022	LTX022:1:247836132:G	4	1	247836132	G	T	0.99541	0.0043379	64087	278	1	4	C
LTX022	LTX022:17:7578190:T	4	17	7578190	T	C	0.99573	0.0042356	29984	127	1	1	C
LTX022	LTX022:5:167645878:T	4	5	167645878	T	G	0.99755	0.002149	67474	145	1	4	C
LTX022	LTX022:18:22807056:C	4	18	22807056	C	A	0.99844	0.0012537	39085	49	1	2	C
LTX022	LTX022:4:187532858:C	4	4	187532858	C	A	0.99856	0.00077212	38854	30	1	2	C

LTX022	LTX022:7:117432761:C	4	7	117432761	C	A	0.99628	0.0036607	16117	59	1	4	C
LTX022	LTX022:18:47802230:C	4	18	47802230	C	A	0.99856	0.0013169	8353	11	1	2	C
LTX022	LTX022:6:155153840:A	4	6	155153840	A	G	0.99905	0.00087738	70665	62	1	4	C
LTX022	LTX022:8:88365909:G	4	8	88365909	G	T	0.99772	0.0021184	68920	146	1	2	C
LTX022	LTX022:12:129559276:C	4	12	129559276	C	T	0.99799	0.0019357	38229	74	1	4	C
LTX022	LTX022:16:14024630:C	4	16	14024630	C	A	0.99854	0.0010307	39777	41	1	2	C
LTX022	LTX022:9:97887448:C	4	9	97887448	C	A	0.99871	0.00096436	87104	84	1	1	C
LTX022	LTX022:18:47800615:C	4	18	47800615	C	A	0.99643	0.0029744	5043	15	1	2	C
LTX022	LTX022:5:176710869:A	4	5	176710869	A	T	0.99914	0.0007317	77901	57	1	2	S
LTX022	LTX022:9:123220803:C	4	9	123220803	C	G	0.99962	0.000013482	74173	1	0	4	S
LTX022	LTX022:2:1168816:T	4	2	1168816	T	C	0.99959	0.00039253	58594	23	0	4	S
LTX022	LTX022:8:70674006:G	4	8	70674006	G	T	0.99937	0.00037306	83096	31	1	4	S
LTX022	LTX022:9:35714237:T	4	9	35714237	T	C	0.99848	0.0015219	34824	53	1	4	C
LTX022	LTX022:9:95841793:G	4	9	95841793	G	C	0.99909	0.00069814	18621	13	1	4	S
LTX022	LTX022:19:6732134:C	4	19	6732134	C	G	0.99962	0	5238	0	0	4	S
LTX025	LTX025:22:29095912:C	2	22	29095912	C	A	0.9956	0.0041768	68473	286	1	1	C
LTX025	LTX025:23:152807895:T	2	23	152807895	T	A	0.99475	0.0049359	9522	47	1	2	
LTX025	LTX025:2:10894174:C	2	2	10894174	C	A	0.99681	0.0025982	68893	179	1	4	C
LTX025	LTX025:9:79322437:C	2	9	79322437	C	A	0.99685	0.0028586	82909	237	1	4	C
LTX025	LTX025:13:29600029:G	2	13	29600029	G	C	0.996	0.0038072	72757	277	1	4	C
LTX025	LTX025:3:57448502:G	2	3	57448502	G	C	0.99752	0.0021798	83034	181	1	2	C
LTX025	LTX025:19:3113467:C	2	19	3113467	C	G	0.99837	0.001343	14147	19	1	2	C
LTX025	LTX025:16:3786795:C	2	16	3786795	C	A	0.99913	0.0005696	49157	28	1	2	C
LTX025	LTX025:11:56085828:G	2	11	56085828	G	T	0.99709	0.0025308	71913	182	1	4	C
LTX025	LTX025:7:91691662:C	2	7	91691662	C	T	0.99734	0.0026159	63459	166	1	2	C
LTX025	LTX025:12:122261145:G	2	12	122261145	G	T	0.99686	0.0027151	6998	19	1	4	C
LTX025	LTX025:15:24922479:G	2	15	24922479	G	A	0.999	0.00095432	60776	58	1	4	C
LTX025	LTX025:19:4362364:G	2	19	4362364	G	A	0.99713	0.0028747	7653	22	1	2	S
LTX025	LTX025:12:1940586:G	2	12	1940586	G	C	0.99964	0	16490	0	0	4	S

LTX025	LTX025:4:1991518:C	2	4	1991518	C	A	0.99953	0.00028047	46350	13	1	4	S
LTX025	LTX025:5:140603250:A	2	5	140603250	A	C	0.99985	0	61843	0	0	4	S
LTX025	LTX025:6:170592096:C	2	6	170592096	C	G	0.9997	0.000030347	65904	2	0	4	S
LTX025	LTX025:2:70905982:C	2	2	70905982	C	G	0.99929	0.00026968	40789	11	1	4	S
LTX025	LTX025:11:93088652:C	2	11	93088652	C	T	0.99959	0.00039377	114279	45	0	4	S
LTX028	LTX028:16:11000781:G	2	16	11000781	G	A	0.99491	0.0050935	41425	211	1	2	C
LTX028	LTX028:18:22804610:C	2	18	22804610	C	G	0.99768	0.0020541	74486	153	1	2	C
LTX028	LTX028:16:27454289:C	2	16	27454289	C	A	0.99833	0.0013874	56941	79	1	2	C
LTX028	LTX028:1:238053905:C	2	1	238053905	C	G	0.99733	0.0024067	83100	200	1	4	C
LTX028	LTX028:19:56896362:T	2	19	56896362	T	A	0.99897	0.00096121	78027	75	1	4	C
LTX028	LTX028:6:117638319:G	2	6	117638319	G	A	0.99831	0.0016934	72635	123	1	2	C
LTX028	LTX028:16:55705930:C	2	16	55705930	C	G	0.99925	0.00046165	28160	13	1	4	C
LTX028	LTX028:19:38942485:A	2	19	38942485	A	C	0.99872	0.0011422	35895	41	1	4	C
LTX028	LTX028:10:22016857:G	2	10	22016857	G	T	0.99906	0.00052765	75808	40	1	2	C
LTX028	LTX028:18:10696430:A	2	18	10696430	A	T	0.99835	0.0010322	45536	47	1	4	S
LTX028	LTX028:10:21823709:G	2	10	21823709	G	T	0.99851	0.0012376	4040	5	1	2	S
LTX028	LTX028:10:12139797:C	2	10	12139797	C	G	0.99964	0	74652	0	0	4	S
LTX028	LTX028:1:153658292:A	2	1	153658292	A	T	0.99994	0.000024522	81559	2	0	4	S
LTX028	LTX028:18:21957404:C	2	18	21957404	C	A	0.99964	0.00001447	69110	1	0	4	S
LTX028	LTX028:11:5969433:T	2	11	5969433	T	G	0.9994	0.00017091	93616	16	1	4	S
LTX028	LTX028:1:237817673:A	2	1	237817673	A	T	0.99967	0.000048633	82249	4	0	4	S
LTX028	LTX028:6:170592441:G	2	6	170592441	G	T	0.99925	0.00040134	34883	14	1	4	S
LTX028	LTX028:1:43904447:A	2	1	43904447	A	C	0.9998	0	64365	0	0	4	S
LTX028	LTX028:6:27879686:G	2	6	27879686	G	C	0.99963	0.00003073	97626	3	0	4	S
LTX029	LTX029:12:14947611:G	6	12	14947611	G	A	0.999580337	0.000419663	35743	15	0	4	C
LTX029	LTX029:16:1691170:A	6	16	1691170	A	G	0.999830347	0.000135722	29472	4	0	4	C
LTX029	LTX029:21:27074569:C	6	21	27074569	C	T	0.999635231	0.000350739	71278	25	0	4	C
LTX029	LTX029:7:100350720:A	6	7	100350720	A	T	0.999447778	7.36296E-05	27163	2	0	NA	C
LTX029	LTX029:17:62558920:C	6	17	62558920	C	T	0.999447412	0.000529563	43432	23	0	4	C

LTX029	LTX029:19:51768714:T	6	19	51768714	T	A	0.999671215	4.10981E-05	48664	2	0	4	C	
LTX029	LTX029:11:2154783:G	6	11	2154783	G	A	0.998744034	0.001255966	11943	15	0	NA	C	
LTX029	LTX029:11:4928801:G	6	11	4928801	G	A	0.999810935	0.000189065	26446	5	0	4	C	
LTX029	LTX029:1:97278352:G	6	1	97278352	G	T	0.999511639	2.95976E-05	67573	2	0	4	C	
LTX029	LTX029:12:100489456:C	6	12	100489456	C	A	0.999663397	3.20574E-05	62388	2	0	4	C	
LTX029	LTX029:17:7577121:G	6	17	7577121	G	T	0.999448992	0	25408	0	0	1A	S	
LTX029	LTX029:14:102484863:C	6	14	102484863	C	T	0.999887767	0.000112233	17820	2	0	NA	S	
LTX029	LTX029:3:179294425:C	6	3	179294425	C	T	0.999730709	0.000220329	40848	9	0	4	C	
LTX029	LTX029:4:119174718:A	6	4	119174718	A	T	0.99953326	2.0293E-05	49278	1	0	4	S	
LTX029	LTX029:1:79093680:T	6	1	79093680	T	G	0.999618789	2.11784E-05	47218	1	0	4	S	
LTX029	LTX029:1:107867516:G	6	1	107867516	G	A	0.999624865	0.000343874	63977	22	0	4	S	
LTX029	LTX029:3:142383088:C	6	3	142383088	C	T	0.999824318	0.000156162	51229	8	0	NA	S	
LTX029	LTX029:11:64695830:C	6	11	64695830	C	T	0.999606777	0.000360455	30517	11	0	4	S	
LTX029	LTX029:17:21318932:C	6	17	21318932	C	A	0.999551923	7.16923E-05	55794	4	0	4	S	
LTX029	LTX029:2:88874212:C	6	2	88874212	C	T	0.999771894	0.000228106	61375	14	0	4	S	
LTX031	LTX031:13:92797222:G	10	13	92797222	G	T	0.999197539	0.000573186	52339	30	1	4	C	
LTX031	LTX031:17:7577046:C	10	17	7577046	C	A	0.998571949	0.00127613	32912	42	1	1A	C	
LTX031	LTX031:17:40054897:C	10	17	40054897	C	A	0.998684531	0.000974421	41050	40	1	4	C	
LTX031	LTX031:19:11132515:G	10	19	11132515	G	C	0.998290233	0.001282325	14037	18	1	1A	C	
LTX031	LTX031:9:123917151:T	10	9	123917151	T	C	0.998574588	0.001425412	20345	29	1	2	C	
LTX031	LTX031:20:3214923:G	10	20	3214923	G	T	0.998946629	0.000351124	25632	9	1	4	C	
LTX031	LTX031:2:235950893:A	10	2	235950893	A	T	0.99918793	0.000641108	23397	15	1	4	C	
LTX031	LTX031:19:17611154:A	10	19	17611154	A	T	0.999851588	0.000148412	20214	3	0	4	C	
LTX031	LTX031:10:22002742:G	10	10	22002742	G	T	0.999384301	0.000211097	56846	12	0	2	C	
LTX031	LTX031:11:4389327:T	10	11	4389327	T	A	0.999427437	0.000429423	55889	24	1	4	C	
LTX031	LTX031:5:10390610:G	10	5	10390610	G	T	0.999599218	0.000150293	39922	6	0	4	C	
LTX031	LTX031:5:131553001:C	10	5	131553001	C	A	0.999144631	0.000366587	40918	15	1	4	C	
LTX031	LTX031:14:69813796:G	10	14	69813796	G	C	0.999412534	0.000186921	37449	7	1	4	C	
LTX031	LTX031:19:9049247:G	10	19	9049247	G	C	0.998978508	0.000694615	24474	17	1	4	C	

LTX031	LTX031:5:140730550:G	10	5	140730550	G	T	0.998456958	0.001282246	46013	59	1	4	C
LTX031	LTX031:2:63182781:A	10	2	63182781	A	T	0.999330619	0.00049088	89635	44	1	4	C
LTX031	LTX031:5:127668682:C	10	5	127668682	C	A	0.999478014	0.000313192	47894	15	1	4	C
LTX031	LTX031:11:55579738:A	10	11	55579738	A	C	0.999157527	0.00055635	62910	35	1	4	C
LTX031	LTX031:2:177034045:G	10	2	177034045	G	T	0.998566651	0.001194458	4186	5	1	4	C
LTX032	LTX032:17:59876567:C	1	17	59876567	C	A	0.99528	0.0044196	70369	311	1	1	C
LTX032	LTX032:11:61490377:G	1	11	61490377	G	T	0.99604	0.0033437	40375	135	1	4	C
LTX032	LTX032:17:7578528:A	1	17	7578528	A	C	0.99649	0.0033861	23921	81	1	1	C
LTX032	LTX032:9:140865874:C	1	9	140865874	C	G	0.99726	0.0023125	30270	70	1	4	C
LTX032	LTX032:6:161530838:G	1	6	161530838	G	T	0.99686	0.002828	63649	180	1	4	
LTX032	LTX032:8:30989960:G	1	8	30989960	G	C	0.99813	0.0014997	84682	127	1	1	C
LTX032	LTX032:20:20269532:G	1	20	20269532	G	T	0.99714	0.0024572	74474	183	1	4	C
LTX032	LTX032:1:51439769:A	1	1	51439769	A	G	0.99926	0.00066589	54063	36	0	2	C
LTX032	LTX032:9:8331595:A	1	9	8331595	A	T	0.99844	0.001384	33236	46	1	4	C
LTX032	LTX032:7:86415632:G	1	7	86415632	G	C	0.99965	0.00011755	51042	6	1	4	S
LTX032	LTX032:5:5303830:G	1	5	5303830	G	T	0.99915	0.00063654	14139	9	1	4	C
LTX032	LTX032:3:50387387:C	1	3	50387387	C	A	0.99965	0.00009915	40343	4	0	4	S
LTX032	LTX032:4:57865825:C	1	4	57865825	C	G	0.99923	0.00054103	64692	35	1	4	S
LTX032	LTX032:6:26285720:C	1	6	26285720	C	G	0.99948	0.00014118	49582	7	0	4	S
LTX032	LTX032:1:170513981:C	1	1	170513981	C	G	0.99958	0.000048567	82361	4	0	4	S
LTX032	LTX032:20:57429470:G	1	20	57429470	G	T	0.99774	0.0020126	3975	8	1	3	S
LTX032	LTX032:12:117188100:C	1	12	117188100	C	A	0.99963	0.000068134	29354	2	0	4	S
LTX033	LTX033:17:7350222:C	5	17	7350222	C	A	0.93279	0.066795	7261	485	1	4	C
LTX033	LTX033:17:7577082:C	5	17	7577082	C	T	0.94168	0.058155	31055	1806	1	1	C
LTX033	LTX033:17:4439438:G	5	17	4439438	G	A	0.90657	0.09343	4688	438	1	4	C
LTX033	LTX033:19:10600447:G	5	19	10600447	G	A	0.96913	0.030837	31326	966	1	2	C
LTX033	LTX033:20:62165606:G	5	20	62165606	G	T	0.95646	0.043271	3767	163	1	4	C
LTX033	LTX033:1:152732873:C	5	1	152732873	C	A	0.96985	0.029837	16054	479	1	4	C
LTX033	LTX033:7:4947050:G	5	7	4947050	G	T	0.99041	0.0093915	60374	567	1	4	C

LTX033	LTX033:23:96684657:G	5	23	96684657	G	T	0.99777	0.0019899	29650	59	1	4	
LTX033	LTX033:16:29791531:G	5	16	29791531	G	T	0.99867	0.0011048	52496	58	1	4	S
LTX033	LTX033:19:57286130:C	5	19	57286130	C	T	0.99954	0.00043817	93572	41	0	4	S
LTX033	LTX033:22:21167719:G	5	22	21167719	G	A	0.99852	0.0014388	82710	119	1	4	S
LTX033	LTX033:17:76134464:G	5	17	76134464	G	A	0.99974	0.00026271	15226	4	0	4	S
LTX033	LTX033:13:38172799:T	5	13	38172799	T	C	0.99975	0.0002395	66806	16	0	4	S
LTX033	LTX033:3:100093927:G	5	3	100093927	G	T	0.99854	0.0012479	57696	72	1	4	S
LTX033	LTX033:20:35862487:T	5	20	35862487	T	C	0.99912	0.00081705	67315	55	1	4	S
LTX033	LTX033:2:26700580:G	5	2	26700580	G	A	0.99936	0.00064091	21844	14	0	4	S
LTX033	LTX033:3:147121807:C	5	3	147121807	C	A	0.98602	0.013711	86352	1184	1	4	S
LTX033	LTX033:9:35057128:C	5	9	35057128	C	T	0.99947	0.00052753	15165	8	0	4	S
LTX034	LTX034:3:52436393:G	4	3	52436393	G	A	0.99941	0.00051442	25271	13	0	1	C
LTX034	LTX034:23:125298988:C	4	23	125298988	C	G	0.99973	0	33648	0	0	4	
LTX034	LTX034:7:148508719:C	4	7	148508719	C	T	0.99974	0.0002604	53764	14	0	2	C
LTX034	LTX034:6:84895087:G	4	6	84895087	G	A	0.99959	0.00034134	70312	24	0	4	C
LTX034	LTX034:3:142735152:A	4	3	142735152	A	C	0.99969	0	49154	0	0	4	C
LTX034	LTX034:23:78010800:G	4	23	78010800	G	A	0.99951	0.0003752	77292	29	0	4	
LTX034	LTX034:14:104639409:C	4	14	104639409	C	T	0.99962	0.00038232	13078	5	0	4	C
LTX034	LTX034:16:88501136:T	4	16	88501136	T	C	0.99983	0.00014961	40103	6	0	4	S
LTX034	LTX034:17:7578535:T	4	17	7578535	T	C	0.99994	0	31176	0	0	1	S
LTX034	LTX034:3:135870296:C	4	3	135870296	C	T	0.99975	0.00024831	60408	15	0	4	S
LTX034	LTX034:3:160395441:C	4	3	160395441	C	A	0.99957	0.000038654	103482	4	0	4	S
LTX034	LTX034:5:138456816:G	4	5	138456816	G	A	0.99961	0.00039054	46090	18	0	4	S
LTX034	LTX034:15:75692456:C	4	15	75692456	C	A	0.99977	0.000033347	89962	3	0	4	S
LTX034	LTX034:12:56827393:T	4	12	56827393	T	A	0.99977	0.00003686	81389	3	0	4	S
LTX034	LTX034:17:75471896:G	4	17	75471896	G	A	0.99968	0.00031861	9416	3	0	4	S
LTX034	LTX034:13:48955550:C	4	13	48955550	C	T	0.99954	0.00040657	86086	35	0	1	S
LTX034	LTX034:12:118610456:C	4	12	118610456	C	A	0.99969	0.00003757	79850	3	0	4	S
LTX034	LTX034:10:70646154:G	4	10	70646154	G	A	0.99977	0.00023094	69281	16	0	4	S

LTX036	LTX036:17:7579398:C	4	17	7579398	C	A	0.99973	0.00013385	14942	2	0	1	C
LTX036	LTX036:19:1220502:G	4	19	1220502	G	T	0.99944	0	1797	0	0	1	C
LTX036	LTX036:12:133256551:C	4	12	133256551	C	A	0.99973	0.000016595	60259	1	0	2	C
LTX036	LTX036:16:4933402:C	4	16	4933402	C	A	0.99914	0.00062632	51092	32	1	4	C
LTX036	LTX036:18:22805714:C	4	18	22805714	C	T	0.99958	0.00040028	62456	25	0	2	C
LTX036	LTX036:19:56539619:C	4	19	56539619	C	G	0.99956	0.000020728	48243	1	0	4	C
LTX036	LTX036:11:108186565:A	4	11	108186565	A	T	0.99991	0.000015039	66495	1	0	1	S
LTX036	LTX036:11:55798386:C	4	11	55798386	C	A	0.99976	0.000029446	67920	2	0	4	C
LTX036	LTX036:9:135983408:A	4	9	135983408	A	C	0.99985	0	52008	0	0	3	
LTX036	LTX036:6:2895637:T	4	6	2895637	T	A	0.99978	0	18554	0	0	4	S
LTX036	LTX036:1:19018437:C	4	1	19018437	C	A	0.99975	0.000035236	28380	1	0	2	S
LTX036	LTX036:1:193150241:G	4	1	193150241	G	T	0.99978	0.000024936	80204	2	0	4	S
LTX036	LTX036:10:7262401:C	4	10	7262401	C	A	0.99961	0.000021424	46677	1	0	4	S
LTX036	LTX036:5:140187899:A	4	5	140187899	A	T	0.99941	0.000079225	50489	4	0	4	S
LTX036	LTX036:7:49815508:C	4	7	49815508	C	A	1	0	3455	0	0	4	S
LTX036	LTX036:2:39559089:T	4	2	39559089	T	G	0.99982	0	77368	0	0	4	S
LTX036	LTX036:15:43694034:A	4	15	43694034	A	C	0.99982	0	62239	0	0	4	S
LTX036	LTX036:3:115439665:A	4	3	115439665	A	C	0.99971	0	69281	0	0	4	S
LTX036	LTX036:2:128774019:C	4	2	128774019	C	A	0.99967	0.000094351	42395	4	0	4	S
LTX038	LTX038:23:88008704:C	4	23	88008704	C	A	0.86044	0.13931	36473	5081	1	4	
LTX038	LTX038:14:51196324:G	4	14	51196324	G	A	0.92133	0.078668	40245	3166	1	1	C
LTX038	LTX038:3:64132613:C	4	3	64132613	C	A	0.92177	0.078047	27791	2169	1	4	C
LTX038	LTX038:1:158576657:G	4	1	158576657	G	T	0.91	0.089742	66390	5958	1	4	C
LTX038	LTX038:2:178098810:C	4	2	178098810	C	G	0.94053	0.059	64203	3788	1	1	C
LTX038	LTX038:9:134010388:A	4	9	134010388	A	T	0.93488	0.064997	80373	5224	1	2	C
LTX038	LTX038:1:65332716:C	4	1	65332716	C	A	0.97998	0.019688	63135	1243	1	2	S
LTX038	LTX038:16:4836063:G	4	16	4836063	G	C	0.97294	0.026699	33072	883	1	2	S
LTX038	LTX038:1:27106535:G	4	1	27106535	G	A	0.98386	0.016022	43191	692	1	1	S
LTX038	LTX038:11:69456203:C	4	11	69456203	C	G	0.99372	0.0056089	18007	101	1	2	S

LTX038	LTX038:4:55980381:G	4	4	55980381	G	A	0.99391	0.0060714	66212	402	1	2	S
LTX038	LTX038:9:139413985:C	4	9	139413985	C	T	0.99938	0.00047535	21037	10	0	2	
LTX038	LTX038:23:76939312:G	4	23	76939312	G	A	0.99778	0.0021671	17996	39	1	2	
LTX038	LTX038:3:37061826:G	4	3	37061826	G	A	0.99666	0.0032892	58676	193	1	1	S
LTX038	LTX038:1:198700816:G	4	1	198700816	G	C	0.99459	0.0050966	54742	279	1	2	S
LTX038	LTX038:5:169020496:A	4	5	169020496	A	C	0.99975	0	72437	0	0	4	S
LTX038	LTX038:6:17772153:G	4	6	17772153	G	C	0.99969	0.000012218	81844	1	0	4	S
LTX038	LTX038:12:464400:C	4	12	464400	C	T	0.99692	0.0030611	52596	161	1	2	S
LTX038	LTX038:15:71276480:G	4	15	71276480	G	T	0.99885	0.00067233	96679	65	1	4	S
LTX041	LTX041:12:7636270:G	3	12	7636270	G	T	0.99979	0.000019109	52331	1	0	4	C
LTX041	LTX041:23:152830557:C	3	23	152830557	C	G	0.99951	0	6162	0	0	2	
LTX041	LTX041:12:25398285:C	3	12	25398285	C	A	0.99959	0	53167	0	0	1	C
LTX041	LTX041:4:153245455:C	3	4	153245455	C	A	0.99945	0.000017203	58130	1	0	1	C
LTX041	LTX041:23:90691588:G	3	23	90691588	G	T	0.99924	0.000108	27778	3	0	4	
LTX041	LTX041:17:7579378:G	3	17	7579378	G	T	0.99982	0.000061425	16280	1	0	1	C
LTX041	LTX041:2:79348040:C	3	2	79348040	C	A	0.9996	0	65149	0	0	4	C
LTX041	LTX041:13:103520588:G	3	13	103520588	G	T	0.99985	0.000034328	58261	2	0	1	C
LTX041	LTX041:16:15844020:C	3	16	15844020	C	T	0.99956	0.00044412	24768	11	0	2	C
LTX041	LTX041:10:104857113:G	3	10	104857113	G	C	0.99956	0.000050464	59448	3	0	2	C
LTX041	LTX041:11:85733463:C	3	11	85733463	C	G	0.99979	0	37507	0	0	2	C
LTX041	LTX041:1:150259318:G	3	1	150259318	G	C	0.99969	0	45400	0	0	4	S
LTX041	LTX041:6:62390879:C	3	6	62390879	C	A	0.99982	0	49402	0	0	4	S
LTX041	LTX041:16:4896197:C	3	16	4896197	C	A	0.99956	0.000082768	36246	3	0	4	C
LTX041	LTX041:16:68023965:C	3	16	68023965	C	A	0.9994	0.00053252	43191	23	1	4	C
LTX041	LTX041:13:110804825:C	3	13	110804825	C	A	0.99964	0	22501	0	0	4	S
LTX041	LTX041:13:110804826:C	3	13	110804826	C	A	0.99978	0	22500	0	0	4	S
LTX041	LTX041:1:171761246:G	3	1	171761246	G	T	0.99976	0.000072689	41272	3	0	4	S
LTX041	LTX041:14:105920600:G	3	14	105920600	G	T	0.99951	0.000046685	42840	2	0	4	S
LTX043	LTX043:1:228487832:C	10	1	228487832	C	T	0.999699063	0.000300937	66459	20	0	4	C

LTX043	LTX043:17:9729424:C	10	17	9729424	C	T	0.9995671	0.0004329	6930	3	0	4	C	
LTX043	LTX043:3:39229451:G	10	3	39229451	G	A	0.999502105	0.000497895	22093	11	0	NA	C	
LTX043	LTX043:18:56058732:T	10	18	56058732	T	A	0.999698273	2.23501E-05	89485	2	0	NA	C	
LTX043	LTX043:12:62974144:A	10	12	62974144	A	G	0.999839142	0.000134048	37300	5	0	4	C	
LTX043	LTX043:5:11346635:C	10	5	11346635	C	T	0.994712103	0.005287897	1702	9	0	4	C	
LTX043	LTX043:12:91347889:G	10	12	91347889	G	A	1	0	1596	0	0	4	C	
LTX043	LTX043:4:183721155:C	10	4	183721155	C	T	0.999491741	0.000465904	23610	11	0	4	C	
LTX043	LTX043:11:28058010:G	10	11	28058010	G	A	0.999616355	0.000343261	49525	17	0	4	C	
LTX043	LTX043:16:2226286:G	10	16	2226286	G	T	0.999657112	0	14582	0	0	2	C	
LTX043	LTX043:11:64878923:A	10	11	64878923	A	G	0.999677489	0.000215008	9302	2	0	4	C	
LTX043	LTX043:2:26533649:C	10	2	26533649	C	T	0.999609806	0.000356264	58945	21	0	4	C	
LTX043	LTX043:5:129070769:A	10	5	129070769	A	T	0.999943044	5.69557E-05	35115	2	0	4	C	
LTX043	LTX043:17:28656289:G	10	17	28656289	G	A	0.999703176	0.000272089	80856	22	0	4	C	
LTX043	LTX043:8:41547755:G	10	8	41547755	G	T	0.999451536	4.98604E-05	20056	1	0	4	C	
LTX043	LTX043:5:138716491:C	10	5	138716491	C	T	0.99994657	5.34302E-05	18716	1	0	NA	S	
LTX043	LTX043:1:154313404:C	10	1	154313404	C	T	0.999697596	0.000285604	59523	17	0	4	S	
LTX043	LTX043:4:37445949:C	10	4	37445949	C	T	0.999795172	0.000126048	63468	8	0	4	S	
LTX046	LTX046:17:7579485:C	3	17	7579485	C	A	0.99981	0	10613	0	0	1	C	
LTX046	LTX046:7:55241708:G	3	7	55241708	G	C	0.99971	0	44705	0	0	1	C	
LTX046	LTX046:19:45375306:G	3	19	45375306	G	C	0.99957	0	21102	0	0	4	C	
LTX046	LTX046:2:228882599:C	3	2	228882599	C	T	0.99947	0.00052994	22644	12	0	4	C	
LTX046	LTX046:22:43539119:C	3	22	43539119	C	A	1	0	2337	0	0	4	S	
LTX046	LTX046:4:57839436:C	3	4	57839436	C	G	0.99973	0	56035	0	0	4	S	
LTX046	LTX046:18:48604750:G	3	18	48604750	G	A	0.99965	0.0002609	57494	15	0	2	S	
LTX046	LTX046:4:164272221:G	3	4	164272221	G	C	0.9996	0	60560	0	0	4	S	
LTX046	LTX046:10:118689468:C	3	10	118689468	C	G	0.99957	0.000011915	83931	1	0	4	S	
LTX046	LTX046:17:19261251:C	3	17	19261251	C	T	0.9994	0.00059538	25194	15	0	4	S	
LTX046	LTX046:3:4847939:C	3	3	4847939	C	G	0.99975	0.000014896	67130	1	0	4	S	
LTX046	LTX046:16:58713976:C	3	16	58713976	C	A	0.99956	0	15922	0	0	4	S	

LTX046	LTX046:13:30107108:C	3	13	30107108	C	A	0.99977	0.000056632	17658	1	0	4	S
LTX046	LTX046:21:27071135:C	3	21	27071135	C	A	0.99977	0	68504	0	0	4	S
LTX046	LTX046:1:237754064:C	3	1	237754064	C	T	0.99958	0.00036934	62274	23	0	4	S
LTX046	LTX046:23:152830448:G	3	23	152830448	G	A	0.99953	0.00047226	8470	4	0	2	
LTX046	LTX046:10:15121020:G	3	10	15121020	G	T	0.99971	0.000030314	65977	2	0	4	S
LTX046	LTX046:11:78574162:C	3	11	78574162	C	A	0.99972	0	38908	0	0	4	S
LTX048	LTX048:23:44108149:C	3	23	44108149	C	A	0.99871	0.0010012	34957	35	1	4	
LTX048	LTX048:5:170883636:G	3	5	170883636	G	T	0.99949	0.000034081	29342	1	0	4	C
LTX048	LTX048:1:179087864:T	3	1	179087864	T	A	0.99958	0.00012067	33149	4	0	2	C
LTX048	LTX048:6:147527134:C	3	6	147527134	C	T	0.9998	0.0001699	35315	6	0	4	C
LTX048	LTX048:6:26225746:C	3	6	26225746	C	A	0.99966	0	32791	0	0	4	C
LTX048	LTX048:2:79312626:G	3	2	79312626	G	T	0.99973	0.000029602	33782	1	0	4	C
LTX048	LTX048:7:13975490:T	3	7	13975490	T	A	0.99961	0.00017836	28033	5	0	2	C
LTX048	LTX048:14:20692485:C	3	14	20692485	C	T	0.99958	0.00038657	31042	12	0	4	S
LTX048	LTX048:22:19883040:G	3	22	19883040	G	A	0.99978	0.00021596	18522	4	0	4	S
LTX048	LTX048:7:115890528:C	3	7	115890528	C	T	0.99968	0.00022974	69644	16	0	4	S
LTX048	LTX048:1:225565074:G	3	1	225565074	G	A	1	0	25456	0	0	4	S
LTX048	LTX048:17:18219954:C	3	17	18219954	C	T	0.99968	0.00029133	30893	9	0	4	S
LTX048	LTX048:14:23523992:C	3	14	23523992	C	G	0.99978	0	27651	0	0	4	S
LTX048	LTX048:6:16326778:C	3	6	16326778	C	A	0.99969	0.000030611	32668	1	0	4	S
LTX048	LTX048:23:49040341:C	3	23	49040341	C	T	0.99916	0.00062814	4776	3	0	4	
LTX048	LTX048:22:36688117:T	3	22	36688117	T	G	0.99973	0	14738	0	0	2	S
LTX048	LTX048:13:100425110:T	3	13	100425110	T	G	0.99969	0	38711	0	0	4	S
LTX049	LTX049:12:25398284:C	4	12	25398284	C	A	0.99961	0.00002193	45600	1	0	1	C
LTX049	LTX049:17:72519788:C	4	17	72519788	C	A	0.99982	0.000029606	33777	1	0	4	C
LTX049	LTX049:15:88680726:C	4	15	88680726	C	A	0.99958	0.000029768	33593	1	0	2	C
LTX049	LTX049:19:11152100:A	4	19	11152100	A	T	0.99985	0	13616	0	0	1	C
LTX049	LTX049:20:51870588:G	4	20	51870588	G	T	0.99955	0	37781	0	0	4	C
LTX049	LTX049:12:46244010:G	4	12	46244010	G	C	0.99973	0	56570	0	0	2	C

LTX049	LTX049:2:116520170:C	4	2	116520170	C	G	0.99961	0	48193	0	0	4	C
LTX049	LTX049:1:3313149:G	4	1	3313149	G	T	0.99919	0.000073303	13642	1	0	2	C
LTX049	LTX049:23:76939413:T	4	23	76939413	T	A	0.99981	0.000038833	51503	2	0	1	
LTX049	LTX049:3:57457248:C	4	3	57457248	C	A	0.99939	0.000043649	22910	1	0	2	C
LTX049	LTX049:23:48547447:C	4	23	48547447	C	A	0.99867	0.00098273	14246	14	1	2	
LTX049	LTX049:21:47987434:G	4	21	47987434	G	T	0.99975	0.000041873	23882	1	0	4	C
LTX049	LTX049:19:10897345:C	4	19	10897345	C	A	0.99945	0	14614	0	0	1	S
LTX049	LTX049:3:128200113:G	4	3	128200113	G	A	0.99939	0.00061224	19600	12	0	2	S
LTX049	LTX049:12:111953997:C	4	12	111953997	C	A	0.99971	0	17113	0	0	4	S
LTX049	LTX049:8:9437749:C	4	8	9437749	C	G	0.99952	0	47995	0	0	4	S
LTX049	LTX049:8:52323848:C	4	8	52323848	C	A	0.99958	0.000026087	38334	1	0	4	S
LTX049	LTX049:3:129370350:C	4	3	129370350	C	G	0.99963	0.000015612	64054	1	0	4	S
LTX050	LTX050:17:78341894:T	10	17	78341894	T	G	0.999762263	5.94342E-05	50476	3	0	2	C
LTX050	LTX050:2:179604479:C	10	2	179604479	C	G	0.999788435	6.68099E-05	89807	6	0	4	C
LTX050	LTX050:6:7581615:A	10	6	7581615	A	C	0.999788387	0	47256	0	0	4	C
LTX050	LTX050:1:32742000:C	10	1	32742000	C	G	0.99949141	0	17696	0	0	2	S
LTX050	LTX050:6:160543343:G	10	6	160543343	G	C	0.999603987	6.60022E-05	15151	1	0	4	S
LTX050	LTX050:9:137716677:C	10	9	137716677	C	G	1	0	4633	0	0	4	S
LTX050	LTX050:13:41905487:C	10	13	41905487	C	A	0.999714122	3.8117E-05	52470	2	0	4	S
LTX050	LTX050:5:148632333:A	10	5	148632333	A	T	0.999747846	4.44978E-05	67419	3	0	4	C
LTX050	LTX050:4:46994867:G	10	4	46994867	G	C	0.999731191	0	63242	0	0	4	S
LTX050	LTX050:11:66311266:C	10	11	66311266	C	A	0.999652597	0	5757	0	0	NA	S
LTX050	LTX050:2:75720594:T	10	2	75720594	T	C	0.999705293	0.000294707	16966	5	0	4	S
LTX050	LTX050:11:59361594:G	10	11	59361594	G	T	0.999725412	0	61911	0	0	NA	S
LTX050	LTX050:6:43015972:C	10	6	43015972	C	A	0.99947767	8.70549E-05	22974	2	0	4	S
LTX050	LTX050:8:145151964:C	10	8	145151964	C	A	0.999443431	3.09205E-05	32341	1	0	4	S
LTX050	LTX050:1:228336404:G	10	1	228336404	G	C	0.999580729	3.81156E-05	26236	1	0	4	S
LTX050	LTX050:15:24924460:G	10	15	24924460	G	C	0.999899487	2.51282E-05	39796	1	0	4	S
LTX050	LTX050:16:50828189:G	10	16	50828189	G	A	0.999690226	0.000309774	61335	19	0	2	S

LTX050	LTX050:1:192779527:G	10	1	192779527	G	T	0.999681995	0	31446	0	0	4	S
LTX050	LTX050:6:130407355:G	10	6	130407355	G	C	0.999732984	0	41196	0	0	4	S
LTX051	LTX051:17:7577130:A	9	17	7577130	A	G	0.999819327	0.000180673	38744	7	0	1A	C
LTX051	LTX051:5:176707578:A	9	5	176707578	A	G	0.999919347	8.06533E-05	49595	4	0	2	C
LTX051	LTX051:7:55259515:T	9	7	55259515	T	G	0.999586659	2.58338E-05	38709	1	0	1A	C
LTX051	LTX051:12:122614594:G	9	12	122614594	G	T	0.999823598	0	39682	0	0	4	C
LTX051	LTX051:9:2032967:C	9	9	2032967	C	G	0.999592834	0	66312	0	0	4	C
LTX051	LTX051:3:164906700:G	9	3	164906700	G	T	0.999764916	0	21269	0	0	4	C
LTX051	LTX051:19:11475076:A	9	19	11475076	A	T	0.999901098	0	10111	0	0	4	C
LTX051	LTX051:9:109697887:C	9	9	109697887	C	A	0.999765203	1.95664E-05	51108	1	0	4	C
LTX051	LTX051:7:103159854:C	9	7	103159854	C	A	0.99982076	0	44633	0	0	4	C
LTX051	LTX051:7:121652018:A	9	7	121652018	A	C	0.999931986	0	58811	0	0	4	C
LTX051	LTX051:14:42356281:G	9	14	42356281	G	T	0.999871258	2.14569E-05	46605	1	0	4	C
LTX051	LTX051:12:6062702:C	9	12	6062702	C	A	0.999579924	3.36061E-05	59513	2	0	4	C
LTX051	LTX051:1:94996065:G	9	1	94996065	G	C	0.999488578	2.84123E-05	35196	1	0	4	C
LTX051	LTX051:11:133714205:A	9	11	133714205	A	T	0.999969958	0	33287	0	0	4	S
LTX051	LTX051:17:56692641:C	9	17	56692641	C	A	0.999646726	0	42460	0	0	4	S
LTX051	LTX051:17:67537889:G	9	17	67537889	G	T	0.999828782	2.14023E-05	46724	1	0	4	S
LTX051	LTX051:18:61264442:G	9	18	61264442	G	T	0.998841922	0.000579039	1727	1	0	2	C
LTX051	LTX051:16:70500853:T	9	16	70500853	T	A	1	0	4663	0	0	4	S
LTX055	LTX055:12:25398285:C	3	12	25398285	C	A	0.99971	0.000022447	44550	1	0	1	C
LTX055	LTX055:15:28513699:C	3	15	28513699	C	A	0.99976	0.000026914	37156	1	0	4	C
LTX055	LTX055:17:29483017:G	3	17	29483017	G	T	0.99989	0	9510	0	0	1	C
LTX055	LTX055:12:101739472:G	3	12	101739472	G	T	0.9997	0.000040161	49800	2	0	4	C
LTX055	LTX055:4:41749461:C	3	4	41749461	C	G	0.99971	0	17025	0	0	1	C
LTX055	LTX055:19:51380137:C	3	19	51380137	C	A	0.99975	0.000013859	72154	1	0	2	C
LTX055	LTX055:1:236882203:T	3	1	236882203	T	A	0.99986	0.000034466	58029	2	0	4	C
LTX055	LTX055:1:183775513:C	3	1	183775513	C	G	0.9997	0.000042521	47036	2	0	4	C
LTX055	LTX055:23:37985925:G	3	23	37985925	G	T	0.99964	0.000027539	36312	1	0	4	

LTX055	LTX055:4:123184698:G	3	4	123184698	G	T	0.99968	0.000028718	34821	1	0	4	S
LTX055	LTX055:1:78430779:C	3	1	78430779	C	A	0.99932	0.000032591	61366	2	0	1	S
LTX055	LTX055:4:57796165:G	3	4	57796165	G	C	0.9996	0.000019948	50130	1	0	4	S
LTX055	LTX055:4:85530655:G	3	4	85530655	G	T	0.99965	0.00007981	62649	5	0	4	S
LTX055	LTX055:16:80718770:G	3	16	80718770	G	C	0.9997	0.000016632	60124	1	0	4	S
LTX055	LTX055:5:174099:A	3	5	174099	A	T	0.99975	0.000070371	28421	2	0	4	S
LTX055	LTX055:5:38425079:C	3	5	38425079	C	G	0.99965	0.000017716	56447	1	0	4	S
LTX055	LTX055:12:32145428:G	3	12	32145428	G	C	0.99969	0.000046209	64923	3	0	4	S
LTX055	LTX055:18:31523112:C	3	18	31523112	C	A	0.99967	0.000032875	60837	2	0	4	S
LTX055	LTX055:23:100745059:A	3	23	100745059	A	C	0.99975	0	20341	0	0	4	
LTX055	LTX055:3:178543485:G	3	3	178543485	G	C	0.99954	0.000032917	60758	2	0	4	S
LTX055	LTX055:12:25398284:C	3	12	25398284	C	A	0.9998	0	44549	0	0	1	S
LTX058	LTX058:17:7577574:T	1	17	7577574	T	G	0.99773	0.00206614	28622	59	1	1	C
LTX058	LTX058:16:15932098:C	1	16	15932098	C	A	0.99941	0.00047006	34038	16	1	2	C
LTX058	LTX058:1:160607244:C	1	1	160607244	C	A	0.99862	0.00086878	27625	24	1	4	C
LTX058	LTX058:9:37002702:C	1	9	37002702	C	A	0.99894	0.00058837	8498	5	0	2	C
LTX058	LTX058:4:187549863:T	1	4	187549863	T	A	0.99983	0.000099776	40090	4	0	2	C
LTX058	LTX058:15:88420326:C	1	15	88420326	C	A	0.99825	0.0011455	53250	61	1	2	C
LTX058	LTX058:6:34614534:C	1	6	34614534	C	A	0.99869	0.00073048	39700	29	1	4	C
LTX058	LTX058:5:118456714:G	1	5	118456714	G	T	0.99921	0.00038535	49306	19	1	4	C
LTX058	LTX058:12:25398285:C	1	12	25398285	C	T	0.99866	0.001323	49129	65	1	1	S
LTX058	LTX058:10:104156229:G	1	10	104156229	G	C	0.99927	0.00046963	19164	9	1	3	S
LTX058	LTX058:17:6980252:G	1	17	6980252	G	C	0.99981	0.000041674	47991	2	0	4	S
LTX058	LTX058:3:189604317:T	1	3	189604317	T	A	0.99971	0.000016186	61783	1	0	4	S
LTX058	LTX058:17:46669614:T	1	17	46669614	T	G	0.99972	0	21116	0	0	4	S
LTX058	LTX058:7:2564347:G	1	7	2564347	G	T	1	0	5663	0	0	4	S
LTX058	LTX058:20:25434139:C	1	20	25434139	C	A	0.99935	0	25969	0	0	4	
LTX058	LTX058:23:63410352:C	1	23	63410352	C	T	0.99991	0.000058722	34059	2	0	1	
LTX058	LTX058:2:227660463:G	1	2	227660463	G	T	0.99943	0.000047501	21052	1	0	4	S

LTX058	LTX058:22:50678733:C	1	22	50678733	C	A	0.99973	0.000033672	29698	1	0	4	S
LTX059	LTX059:6:167369586:G	3	6	167369586	G	C	0.99884	0.0005787	1728	1	0	4	C
LTX059	LTX059:9:104499652:C	3	9	104499652	C	A	0.99889	0.0011145	6281	7	1	4	C
LTX059	LTX059:22:36715609:G	3	22	36715609	G	C	0.99943	0.00035699	28012	10	1	2	C
LTX059	LTX059:4:72618298:C	3	4	72618298	C	G	0.9996	0.00011518	52093	6	1	4	C
LTX059	LTX059:7:113558795:G	3	7	113558795	G	T	0.99894	0.00054163	53542	29	1	4	C
LTX059	LTX059:7:126173256:T	3	7	126173256	T	C	0.99931	0.0006252	73577	46	0	4	C
LTX059	LTX059:15:72039278:C	3	15	72039278	C	A	0.99934	0.00057751	12121	7	1	4	C
LTX059	LTX059:1:15635212:G	3	1	15635212	G	A	0.99897	0.0010045	46791	47	1	4	C
LTX059	LTX059:1:109778027:A	3	1	109778027	A	G	0.99908	0.00088146	26093	23	1	4	S
LTX059	LTX059:4:121737614:G	3	4	121737614	G	T	0.99894	0.00074963	45356	34	1	4	S
LTX059	LTX059:6:89981387:G	3	6	89981387	G	A	0.99931	0.00069119	13021	9	0	4	S
LTX059	LTX059:6:152599226:G	3	6	152599226	G	T	0.99951	0.000035151	28449	1	0	4	S
LTX059	LTX059:13:103519140:T	3	13	103519140	T	A	0.99997	0	38900	0	0	1	S
LTX059	LTX059:20:55033411:A	3	20	55033411	A	T	0.99948	0.00034462	34821	12	1	4	S
LTX059	LTX059:11:74424521:C	3	11	74424521	C	T	0.99974	0.00022512	26653	6	0	4	S
LTX059	LTX059:23:48759725:C	3	23	48759725	C	T	1	0	6979	0	0	4	
LTX059	LTX059:3:142089350:C	3	3	142089350	C	T	0.9998	0.00018072	55334	10	0	4	S
LTX059	LTX059:17:1538596:G	3	17	1538596	G	T	0.99943	0	3507	0	0	4	S
LTX060	LTX060:17:7578455:C	6	17	7578455	C	G	0.999400512	0	18349	0	0	1A	C
LTX060	LTX060:4:187557791:C	6	4	187557791	C	A	0.999757289	1.61807E-05	61802	1	0	2	C
LTX060	LTX060:1:16237768:G	6	1	16237768	G	C	0.999408757	0	57506	0	0	1	C
LTX060	LTX060:4:1952890:C	6	4	1952890	C	G	0.99931205	0.000365474	46515	17	1	3	C
LTX060	LTX060:15:34649385:C	6	15	34649385	C	T	0.999698025	0.000221448	49673	11	0	2	C
LTX060	LTX060:3:105452857:C	6	3	105452857	C	A	0.998253987	0	17182	0	0	1	C
LTX060	LTX060:2:29541185:C	6	2	29541185	C	G	0.999689537	0	48315	0	0	2	S
LTX060	LTX060:17:48918125:G	6	17	48918125	G	C	0.999618551	6.35748E-05	31459	2	0	4	C
LTX060	LTX060:21:36265236:G	6	21	36265236	G	C	0.999612217	6.84322E-05	43839	3	0	3	C
LTX060	LTX060:20:16348162:G	6	20	16348162	G	C	0.99976436	1.17816E-05	84878	1	0	4	C

LTX060	LTX060:17:47677801:G	6	17	47677801	G	C	0.999878597	0	41185	0	0	2	S
LTX060	LTX060:22:31741348:C	6	22	31741348	C	T	1	0	1908	0	0	2	S
LTX060	LTX060:12:394744:C	6	12	394744	C	T	0.999451572	0.000489668	51055	25	0	2	C
LTX060	LTX060:3:59999825:C	6	3	59999825	C	G	0.999582522	1.54622E-05	64674	1	0	2	S
LTX060	LTX060:3:12633227:C	6	3	12633227	C	G	0.999775848	1.86794E-05	53535	1	0	2	S
LTX060	LTX060:16:9857250:G	6	16	9857250	G	C	0.999727787	1.23733E-05	80819	1	0	3	S
LTX060	LTX060:1:198721448:C	6	1	198721448	C	G	0.99972912	2.25734E-05	44300	1	0	1	S
LTX060	LTX060:6:157522016:G	6	6	157522016	G	C	0.999738425	8.71916E-05	22938	2	0	1	S
LTX060	LTX060:16:50741841:T	6	16	50741841	T	A	0.999947563	0	57211	0	0	4	S
LTX060	LTX060:20:31021451:G	6	20	31021451	G	T	0.999535222	4.64778E-05	64547	3	0	1A	S
LTX062	LTX062:12:25398285:C	2	12	25398285	C	A	0.99975	0	56951	0	0	1	C
LTX062	LTX062:7:30962189:C	2	7	30962189	C	G	0.99979	0	34082	0	0	4	C
LTX062	LTX062:1:151534599:G	2	1	151534599	G	T	0.99963	0.000041589	72134	3	0	4	C
LTX062	LTX062:13:27649347:C	2	13	27649347	C	G	0.99967	0.000013912	71880	1	0	4	C
LTX062	LTX062:15:33872331:C	2	15	33872331	C	G	0.99986	0	62479	0	0	4	S
LTX062	LTX062:14:95080872:G	2	14	95080872	G	T	0.99981	0.000015564	64251	1	0	4	S
LTX062	LTX062:2:100623339:C	2	2	100623339	C	G	0.99961	0	43541	0	0	4	S
LTX062	LTX062:4:123336585:G	2	4	123336585	G	T	0.99949	0	80603	0	0	4	S
LTX062	LTX062:7:90613523:A	2	7	90613523	A	T	0.99914	0.000026047	76783	2	0	4	S
LTX062	LTX062:2:25467082:C	2	2	25467082	C	T	0.99958	0.00035265	28357	10	0	1	S
LTX062	LTX062:5:15937153:G	2	5	15937153	G	T	0.99962	0	18443	0	0	4	S
LTX062	LTX062:3:157081234:T	2	3	157081234	T	A	0.99982	0	77312	0	0	4	S
LTX062	LTX062:5:11082937:C	2	5	11082937	C	A	0.99926	0	39036	0	0	4	S
LTX062	LTX062:5:167645554:C	2	5	167645554	C	A	0.9997	0.000019722	101412	2	0	4	S
LTX062	LTX062:5:118469290:G	2	5	118469290	G	T	0.9997	0.000049983	60021	3	0	4	S
LTX062	LTX062:12:57114850:G	2	12	57114850	G	C	0.9997	0.000033015	30289	1	0	3	S
LTX062	LTX062:22:44322935:C	2	22	44322935	C	A	0.99963	0.000030852	64825	2	0	4	S
LTX062	LTX062:21:32638512:A	2	21	32638512	A	C	0.99987	0	46646	0	0	4	S
LTX063	LTX063:9:135982591:C	4	9	135982591	C	A	0.99204	0.0074123	9174	68	1	2	C

LTX063	LTX063:17:7578263:G	4	17	7578263	G	A	0.99536	0.0045908	41387	190	1	1	C
LTX063	LTX063:3:57430962:G	4	3	57430962	G	A	0.99753	0.002452	72187	177	1	2	C
LTX063	LTX063:10:50732500:C	4	10	50732500	C	A	0.99809	0.0014784	64258	95	1	4	C
LTX063	LTX063:7:31144522:A	4	7	31144522	A	C	0.99813	0.0015697	57335	90	1	4	C
LTX063	LTX063:12:125298872:C	4	12	125298872	C	A	0.99752	0.0020041	33432	67	1	4	C
LTX063	LTX063:2:73302776:C	4	2	73302776	C	A	0.99769	0.0020468	11237	23	1	4	C
LTX063	LTX063:1:27102068:G	4	1	27102068	G	T	0.99794	0.0015258	52430	80	1	1	
LTX063	LTX063:10:108378016:C	4	10	108378016	C	A	0.99837	0.0014288	55992	80	1	4	C
LTX063	LTX063:11:32449506:T	4	11	32449506	T	A	0.99785	0.0017883	2796	5	1	1	C
LTX063	LTX063:16:65016009:C	4	16	65016009	C	G	0.99798	0.0014836	57294	85	1	2	C
LTX063	LTX063:10:70332109:G	4	10	70332109	G	A	0.99944	0.00051434	62216	32	0	4	S
LTX063	LTX063:15:74326870:C	4	15	74326870	C	T	0.99912	0.00087513	25139	22	0	2	S
LTX063	LTX063:16:15811171:C	4	16	15811171	C	T	0.99934	0.00065926	10618	7	0	2	S
LTX063	LTX063:19:15511627:G	4	19	15511627	G	T	0.9994	0.00029937	26723	8	1	4	S
LTX063	LTX063:6:26508774:T	4	6	26508774	T	A	0.99969	0.00013368	74807	10	1	4	S
LTX063	LTX063:8:144812392:C	4	8	144812392	C	T	1	0	5633	0	0	4	S
LTX063	LTX063:2:11770074:C	4	2	11770074	C	A	0.99955	0.0002598	42341	11	1	4	S
LTX063	LTX063:7:50450378:C	4	7	50450378	C	G	0.99983	0.000055813	17917	1	0	2	S
LTX063	LTX063:7:49815709:G	4	7	49815709	G	C	0.99935	0.00042274	35483	15	1	4	S
LTX064	LTX064:17:7577121:G	10	17	7577121	G	A	0.989278787	0.010721213	28355	304	1	1A	C
LTX064	LTX064:17:61498333:A	10	17	61498333	A	T	0.987469382	0.012397314	60013	744	1	4	C
LTX064	LTX064:6:55216167:G	10	6	55216167	G	T	0.980313738	0.019297973	25754	497	1	4	C
LTX064	LTX064:17:41245378:G	10	17	41245378	G	A	0.992063492	0.007905138	31878	252	1	2	S
LTX064	LTX064:10:85972865:G	10	10	85972865	G	C	0.996745691	0.003017962	55004	166	1	4	S
LTX064	LTX064:13:52707300:C	10	13	52707300	C	A	0.995154709	0.004476935	35292	158	1	4	S
LTX064	LTX064:1:144859920:C	10	1	144859920	C	T	0.99695527	0.003005944	103129	310	1	2	S
LTX064	LTX064:4:114275220:G	10	4	114275220	G	C	0.998743789	0.000809558	35822	29	1	4	S
LTX064	LTX064:10:98105810:A	10	10	98105810	A	T	0.999514186	7.77303E-05	51460	4	0	4	S
LTX064	LTX064:8:103357729:G	10	8	103357729	G	A	0.9993566	0.000612014	63724	39	0	1	S

LTX064	LTX064:1:202705388:C	10	1	202705388	C	A	0.999501404	0.000314903	38107	12	1	4	S	
LTX064	LTX064:8:41792326:G	10	8	41792326	G	C	0.998378536	0.001372008	72157	99	1	2	S	
LTX064	LTX064:3:49397783:C	10	3	49397783	C	A	0.999019083	0.000505321	33642	17	1	2	S	
LTX064	LTX064:6:168299035:C	10	6	168299035	C	T	0.999254367	0.000692373	37552	26	0	2	S	
LTX064	LTX064:7:151879502:C	10	7	151879502	C	G	0.999198254	0.000512227	44902	23	1	2	S	
LTX064	LTX064:11:62416083:C	10	11	62416083	C	A	0.998334575	0.001227155	22817	28	1	4	S	
LTX064	LTX064:5:35876314:G	10	5	35876314	G	A	0.995712755	0.004287245	1866	8	0	2	S	
LTX064	LTX064:9:36169923:C	10	9	36169923	C	G	0.999374246	2.23484E-05	44746	1	0	4	S	
LTX064	LTX064:10:90773919:G	10	10	90773919	G	A	0.999175866	0.000824134	46109	38	1	1	S	
LTX065	LTX065:22:36702581:C	4	22	36702581	C	T	0.99925	0.00062274	16058	10	0	2	C	
LTX065	LTX065:14:101347192:C	4	14	101347192	C	T	0.99901	0.00098619	5070	5	0	4	C	
LTX065	LTX065:17:7577127:C	4	17	7577127	C	A	0.99981	0.000038583	25918	1	0	1	C	
LTX065	LTX065:13:103390487:G	4	13	103390487	G	T	0.99963	0.000067707	29539	2	0	4	C	
LTX065	LTX065:20:4837662:C	4	20	4837662	C	T	0.99957	0.00040745	51540	21	0	4	C	
LTX065	LTX065:2:73679889:G	4	2	73679889	G	T	0.99966	0.000018649	53621	1	0	4	C	
LTX065	LTX065:13:103385643:A	4	13	103385643	A	C	0.99963	0.000050711	59159	3	0	4	C	
LTX065	LTX065:5:86629154:G	4	5	86629154	G	T	0.99969	0.000027873	35877	1	0	2	C	
LTX065	LTX065:4:109674077:C	4	4	109674077	C	A	0.99964	0	41536	0	0	4	C	
LTX065	LTX065:5:150133163:G	4	5	150133163	G	T	0.99945	0	65283	0	0	4	C	
LTX065	LTX065:16:48209286:G	4	16	48209286	G	T	0.99971	0	10349	0	0	4	C	
LTX065	LTX065:11:64360338:G	4	11	64360338	G	T	1	0	6231	0	0	4	C	
LTX065	LTX065:6:51523873:T	4	6	51523873	T	A	0.99958	0.000019087	52391	1	0	4	C	
LTX065	LTX065:13:96530052:C	4	13	96530052	C	A	0.99959	0.000042896	46624	2	0	4	S	
LTX065	LTX065:2:220283462:T	4	2	220283462	T	A	0.99977	0.000075347	13272	1	0	4	C	
LTX068	LTX068:17:7577586:A	7	17	7577586	A	T	0.941928117	0.057963134	18391	1066	1	1A	C	
LTX068	LTX068:17:10258418:G	7	17	10258418	G	T	0.939680016	0.059756865	30189	1804	1	4	C	
LTX068	LTX068:11:32450162:T	7	11	32450162	T	A	0.957649298	0.041161075	4203	173	1	1	C	
LTX068	LTX068:12:4853776:G	7	12	4853776	G	T	0.960920728	0.038800986	25154	976	1	4	C	
LTX068	LTX068:5:95746549:A	7	5	95746549	A	T	0.964225309	0.035364666	19511	690	1	4	C	

LTX068	LTX068:18:58039460:G	7	18	58039460	G	T	0.961056789	0.038365204	41522	1593	1	4	C
LTX068	LTX068:11:48177384:G	7	11	48177384	G	T	0.958759851	0.040945738	44156	1808	1	4	C
LTX068	LTX068:1:103400091:G	7	1	103400091	G	T	0.955814094	0.043964876	49767	2188	1	4	C
LTX068	LTX068:6:168319470:G	7	6	168319470	G	C	0.960640643	0.038743354	30844	1195	1	2	C
LTX068	LTX068:11:47369017:C	7	11	47369017	C	A	0.947132736	0.052533084	29924	1572	1	4	C
LTX068	LTX068:17:51900935:A	7	17	51900935	A	T	0.975688776	0.024056122	39200	943	1	4	C
LTX068	LTX068:6:25924117:A	7	6	25924117	A	T	0.954164965	0.045692119	48980	2238	1	4	C
LTX068	LTX068:15:64019933:C	7	15	64019933	C	A	0.959555266	0.039951024	50637	2023	1	4	C
LTX068	LTX068:16:9010372:T	7	16	9010372	T	A	0.983090753	0.016534675	18688	309	1	4	S
LTX068	LTX068:11:123813893:T	7	11	123813893	T	G	0.97483846	0.024953101	33583	838	1	4	S
LTX068	LTX068:7:142564817:C	7	7	142564817	C	A	0.970834143	0.028776978	15429	444	1	4	C
LTX068	LTX068:13:101997653:T	7	13	101997653	T	A	0.988175318	0.011336059	61397	696	1	4	S
LTX068	LTX068:17:10426687:T	7	17	10426687	T	G	0.991688805	0.008164956	41029	335	1	4	S
LTX068	LTX068:19:10904505:G	7	19	10904505	G	A	0.999671401	0.000292088	27389	8	0	1	S
LTX068	LTX068:3:193051643:G	7	3	193051643	G	C	0.99969818	0	43072	0	0	4	S
LTX070	LTX070:22:29092948:G	6	22	29092948	G	A	0.999463659	0.000487583	61528	30	0	1	C
LTX070	LTX070:1:7737790:G	6	1	7737790	G	C	0.999442675	0	12560	0	0	2	C
LTX070	LTX070:8:116599547:C	6	8	116599547	C	A	0.999645607	6.44351E-05	31039	2	0	4	C
LTX070	LTX070:5:89949375:G	6	5	89949375	G	T	0.999582279	4.91437E-05	40697	2	0	4	C
LTX070	LTX070:11:32414247:G	6	11	32414247	G	T	0.999614394	1.54242E-05	64833	1	0	1	C
LTX070	LTX070:16:27544655:C	6	16	27544655	C	A	0.99959875	2.86607E-05	69782	2	0	4	C
LTX070	LTX070:4:187629198:T	6	4	187629198	T	A	0.99953762	0.000102751	38929	4	0	2	C
LTX070	LTX070:11:4470680:T	6	11	4470680	T	A	0.999702592	0	43711	0	0	4	C
LTX070	LTX070:4:187524383:C	6	4	187524383	C	A	0.999597553	2.68298E-05	37272	1	0	2	C
LTX070	LTX070:13:49039352:G	6	13	49039352	G	T	0.999767099	0	64405	0	0	1A	C
LTX070	LTX070:1:236911057:G	6	1	236911057	G	T	0.999647112	4.23466E-05	70844	3	0	4	C
LTX070	LTX070:16:9858176:G	6	16	9858176	G	T	0.999741473	0	58021	0	0	2	C
LTX070	LTX070:2:100175348:C	6	2	100175348	C	A	0.999726383	0	14619	0	0	2	C
LTX070	LTX070:10:50690868:C	6	10	50690868	C	A	0.999558841	4.01053E-05	74803	3	0	4	C

LTX070	LTX070:1:204494696:G	6	1	204494696	G	T	0.999782528	0	45983	0	0	2	S
LTX070	LTX070:12:472154:T	6	12	472154	T	C	0.999677627	0.000284446	52734	15	0	2	S
LTX070	LTX070:18:22806473:G	6	18	22806473	G	A	0.999553901	0.000369185	65008	24	0	2	S
LTX070	LTX070:20:50092070:G	6	20	50092070	G	C	0.999586003	8.71574E-05	45894	4	0	2	S
LTX070	LTX070:10:20106063:C	6	10	20106063	C	A	0.999726676	9.11079E-05	10976	1	0	4	S
LTX070	LTX070:1:78425919:C	6	1	78425919	C	T	0.999761405	0.000214736	41912	9	0	1	S
LTX073	LTX073:12:46244139:C	1	12	46244139	C	T	0.99983	0.00009769	40946	4	0	1	C
LTX073	LTX073:17:7578450:C	1	17	7578450	C	A	0.99942	0	8654	0	0	1	C
LTX073	LTX073:17:7578449:C	1	17	7578449	C	A	0.99942	0	8638	0	0	1	C
LTX073	LTX073:15:74327689:G	1	15	74327689	G	T	0.9997	0	6673	0	0	2	C
LTX073	LTX073:5:78378719:C	1	5	78378719	C	A	0.99976	0	33277	0	0	2	C
LTX073	LTX073:19:10597402:G	1	19	10597402	G	A	0.99943	0.00057369	15688	9	0	2	C
LTX073	LTX073:19:1623974:C	1	19	1623974	C	G	0.99979	0	18943	0	0	2	C
LTX073	LTX073:11:100061886:C	1	11	100061886	C	G	0.99955	0	61693	0	0	4	C
LTX073	LTX073:4:106157924:C	1	4	106157924	C	T	0.99983	0.00017238	29005	5	0	2	C
LTX073	LTX073:1:214171377:C	1	1	214171377	C	A	0.99939	0.00015176	19768	3	0	4	C
LTX073	LTX073:11:44228441:G	1	11	44228441	G	A	0.99967	0.00027859	39485	11	0	1	C
LTX073	LTX073:12:25398284:C	1	12	25398284	C	A	0.99973	0.000042017	47600	2	0	1	S
LTX073	LTX073:7:138554488:T	1	7	138554488	T	C	0.99974	0.00021535	23218	5	0	2	C
LTX073	LTX073:4:71062448:G	1	4	71062448	G	T	0.99974	0.000032444	30822	1	0	2	S
LTX073	LTX073:7:100839588:A	1	7	100839588	A	C	0.99975	0.000061512	16257	1	0	4	S
LTX073	LTX073:16:27460080:G	1	16	27460080	G	T	0.99968	0	12593	0	0	2	S
LTX073	LTX073:12:120954411:T	1	12	120954411	T	G	0.99984	0	55749	0	0	4	S
LTX073	LTX073:1:186269250:G	1	1	186269250	G	T	0.99949	0.000063471	47266	3	0	4	S
LTX073	LTX073:5:65105902:G	1	5	65105902	G	C	0.99962	0	18559	0	0	4	S
LTX073	LTX073:2:170044574:G	1	2	170044574	G	T	0.9996	0.000052731	37928	2	0	4	S
LTX073	LTX073:23:148037179:A	1	23	148037179	A	C	0.99963	0	61921	0	0	4	
LTX073	LTX073:12:116452963:T	1	12	116452963	T	A	0.99964	0.000048474	61889	3	0	4	S
LTX074	LTX074:10:89717615:C	5	10	89717615	C	T	0.99951	0.00044712	89461	40	0	1	C

LTX074	LTX074:9:5069164:A	5	9	5069164	A	G	0.99958	0.00034751	86328	30	1	2	C
LTX074	LTX074:17:7578206:T	5	17	7578206	T	C	0.99963	0.00036769	46235	17	1	1	C
LTX074	LTX074:20:31023115:G	5	20	31023115	G	T	0.99957	0.00016946	64911	11	1	2	C
LTX074	LTX074:12:49420108:C	5	12	49420108	C	G	0.99935	0.0001083	27701	3	0	1	C
LTX074	LTX074:20:57829494:C	5	20	57829494	C	G	0.99919	0.0004545	101211	46	1	4	C
LTX074	LTX074:17:76490183:C	5	17	76490183	C	G	0.99942	0.0002308	17331	4	1	4	C
LTX074	LTX074:3:47139542:G	5	3	47139542	G	A	0.9997	0.00027608	72443	20	0	1	S
LTX074	LTX074:19:3611966:G	5	19	3611966	G	C	0.99959	0.00027152	7366	2	1	4	S
LTX074	LTX074:7:107706249:A	5	7	107706249	A	T	0.99948	0.00019182	93840	18	0	4	S
LTX074	LTX074:1:150935141:G	5	1	150935141	G	C	0.99975	0.000062664	79790	5	0	2	S
LTX074	LTX074:4:1806572:T	5	4	1806572	T	G	0.99976	0	21146	0	0	3	S
LTX074	LTX074:12:120741431:C	5	12	120741431	C	A	0.99963	0.000057645	69390	4	0	4	S
LTX074	LTX074:17:29653132:C	5	17	29653132	C	G	0.9997	0	81135	0	0	3	S
LTX074	LTX074:8:134145841:G	5	8	134145841	G	C	0.99929	0.0001412	84985	12	1	4	S
LTX074	LTX074:16:27374243:G	5	16	27374243	G	T	0.99951	0.000027078	36931	1	0	4	S
LTX074	LTX074:19:47424096:C	5	19	47424096	C	G	0.9997	0.000013134	76137	1	0	2	S
LTX074	LTX074:1:33272142:C	5	1	33272142	C	G	0.99971	0	68959	0	0	4	S
LTX074	LTX074:12:110956536:C	5	12	110956536	C	G	0.99947	0	62273	0	0	4	S
LTX075	LTX075:7:55259515:T	5	7	55259515	T	G	0.99952	0.00013045	76660	10	0	1	C
LTX075	LTX075:23:47040716:G	5	23	47040716	G	T	0.99969	0.00012472	16036	2	0	2	
LTX075	LTX075:17:7578403:C	5	17	7578403	C	A	0.99952	0	26938	0	0	1	C
LTX075	LTX075:23:47039288:T	5	23	47039288	T	G	0.99985	0	53610	0	0	2	
LTX075	LTX075:12:49949724:C	5	12	49949724	C	G	0.99959	0	29424	0	0	4	C
LTX075	LTX075:20:31676821:G	5	20	31676821	G	A	0.99973	0.00023771	67309	16	0	4	C
LTX075	LTX075:20:2840714:C	5	20	2840714	C	T	0.99949	0.00047874	73108	35	0	4	C
LTX075	LTX075:17:47010696:G	5	17	47010696	G	C	0.99958	0	71604	0	0	4	C
LTX075	LTX075:2:223787502:C	5	2	223787502	C	A	0.99959	8.6264E-06	115923	1	0	3	C
LTX075	LTX075:10:127843807:G	5	10	127843807	G	A	0.99954	0.00040128	109650	44	0	4	S
LTX075	LTX075:18:8376593:G	5	18	8376593	G	A	0.99963	0.0003181	81735	26	0	4	C

LTX075	LTX075:6:105609358:A	5	6	105609358	A	G	0.99964	0.00032024	99924	32	1	4	S
LTX075	LTX075:1:247654898:T	5	1	247654898	T	C	0.99951	0.00044885	44558	20	0	4	C
LTX075	LTX075:14:92588089:G	5	14	92588089	G	T	0.99973	0	7295	0	0	4	S
LTX075	LTX075:17:37571363:G	5	17	37571363	G	C	0.99971	0.000012468	80208	1	0	4	S
LTX075	LTX075:12:116457705:C	5	12	116457705	C	T	0.99964	0.00030083	126317	38	0	4	S
LTX075	LTX075:17:3717712:C	5	17	3717712	C	T	0.99967	0.00032462	98576	32	0	4	S
LTX075	LTX075:4:146653666:G	5	4	146653666	G	C	0.9997	0.000012559	79622	1	0	4	S
LTX075	LTX075:3:172065111:G	5	3	172065111	G	C	0.99976	9.4105E-06	106264	1	0	4	S
LTX076	LTX076:7:98574134:T	5	7	98574134	T	A	0.90824	0.091617	20684	1895	1	3	C
LTX076	LTX076:4:187521078:C	5	4	187521078	C	T	0.94143	0.058492	37629	2201	1	2	C
LTX076	LTX076:17:7577090:C	5	17	7577090	C	G	0.94559	0.054012	29975	1619	1	1	C
LTX076	LTX076:16:4043420:T	5	16	4043420	T	A	0.92074	0.078995	52788	4170	1	4	C
LTX076	LTX076:11:18434326:G	5	11	18434326	G	T	0.95687	0.042873	62277	2670	1	4	C
LTX076	LTX076:12:133225515:C	5	12	133225515	C	A	0.96061	0.038944	15561	606	1	2	C
LTX076	LTX076:14:21868191:T	5	14	21868191	T	A	0.97714	0.022546	65998	1488	1	2	C
LTX076	LTX076:14:21868192:G	5	14	21868192	G	A	0.97696	0.022994	65975	1517	1	2	C
LTX076	LTX076:17:7416153:G	5	17	7416153	G	T	0.96466	0.035056	28098	985	1	4	S
LTX076	LTX076:5:19838947:C	5	5	19838947	C	T	0.97541	0.024541	84920	2084	1	4	S
LTX076	LTX076:10:79595553:C	5	10	79595553	C	A	0.99762	0.0016335	21426	35	1	4	S
LTX076	LTX076:3:129251434:G	5	3	129251434	G	A	0.99762	0.0023292	41216	96	1	4	S
LTX076	LTX076:19:45209082:C	5	19	45209082	C	T	0.98094	0.019031	70516	1342	1	4	S
LTX076	LTX076:23:32482787:C	5	23	32482787	C	G	0.99616	0.0036419	55191	201	1	4	
LTX076	LTX076:2:228884112:C	5	2	228884112	C	A	0.99447	0.0052817	55475	293	1	4	S
LTX076	LTX076:16:3656696:T	5	16	3656696	T	A	0.98619	0.013698	64097	878	1	4	S
LTX076	LTX076:10:104136546:G	5	10	104136546	G	A	0.99743	0.0025748	26021	67	1	4	S
LTX076	LTX076:3:53125957:G	5	3	53125957	G	C	0.99635	0.0032992	60620	200	1	4	S
LTX076	LTX076:6:138199630:C	5	6	138199630	C	T	0.99922	0.00068644	43704	30	0	1	S
LTX076	LTX076:8:72182032:C	5	8	72182032	C	G	0.99694	0.0025558	75514	193	1	4	S
LTX082	LTX082:10:34690803:C	9	10	34690803	C	A	0.997777534	0.002003349	63893	128	1	4	C

LTX082	LTX082:14:21899722:C	9	14	21899722	C	A	0.996046419	0.003713485	62475	232	1	3	C
LTX082	LTX082:8:118831997:T	9	8	118831997	T	A	0.996593106	0.003345508	32581	109	1	2	C
LTX082	LTX082:9:135982542:C	9	9	135982542	C	A	0.997713712	0.001895946	17933	34	1	2	C
LTX082	LTX082:2:100167964:C	9	2	100167964	C	A	0.998558448	0.001266818	22892	29	1	2	C
LTX082	LTX082:1:237802339:A	9	1	237802339	A	T	0.994569877	0.005334858	52485	280	1	4	C
LTX082	LTX082:8:109797309:C	9	8	109797309	C	A	0.992833207	0.006628672	40883	271	1	4	C
LTX082	LTX082:13:96293619:T	9	13	96293619	T	A	0.996318471	0.003049347	26891	82	1	4	C
LTX082	LTX082:14:73578470:A	9	14	73578470	A	T	0.998331123	0.001430466	67111	96	1	4	C
LTX082	LTX082:7:148702405:A	9	7	148702405	A	T	0.999018456	0.00072409	62147	45	1	4	C
LTX082	LTX082:1:247463910:C	9	1	247463910	C	A	0.992731446	0.005355777	2614	14	1	4	C
LTX082	LTX082:8:103293638:G	9	8	103293638	G	A	0.998606445	0.00136867	40185	55	1	1	C
LTX082	LTX082:3:35732394:C	9	3	35732394	C	G	0.999457011	0.000300073	69983	21	1	4	C
LTX082	LTX082:7:27222434:G	9	7	27222434	G	T	0.998938171	0.000773618	65924	51	1	2	C
LTX082	LTX082:13:103718491:C	9	13	103718491	C	A	0.999581848	0.000219032	50221	11	0	4	C
LTX082	LTX082:12:99640280:C	9	12	99640280	C	A	0.997971753	0.001746958	67546	118	1	4	C
LTX082	LTX082:1:204518721:C	9	1	204518721	C	A	0.999543891	0.000169412	76736	13	0	3	C
LTX083	LTX083:19:10599912:C	6	19	10599912	C	A	0.999701726	0	26821	0	0	2	C
LTX083	LTX083:12:115120894:G	6	12	115120894	G	C	0.999334221	0	1502	0	0	2	C
LTX083	LTX083:15:88483862:C	6	15	88483862	C	A	0.999555743	2.22128E-05	45019	1	0	2	C
LTX083	LTX083:18:22807256:C	6	18	22807256	C	A	0.999572608	0	51475	0	0	2	C
LTX083	LTX083:5:158140041:C	6	5	158140041	C	G	0.999659903	3.77886E-05	26463	1	0	2	C
LTX083	LTX083:16:4837556:C	6	16	4837556	C	T	0.999141078	0.000644192	4657	3	0	2	C
LTX083	LTX083:3:54919567:A	6	3	54919567	A	T	0.999582522	0.000101207	79046	8	0	4	C
LTX083	LTX083:15:52664400:C	6	15	52664400	C	A	0.998779781	3.05055E-05	32781	1	0	2	C
LTX083	LTX083:12:46233154:G	6	12	46233154	G	T	0.999542839	2.68918E-05	37186	1	0	1A	C
LTX083	LTX083:1:201618085:C	6	1	201618085	C	G	0.999300871	0	52923	0	0	4	C
LTX083	LTX083:12:48377902:C	6	12	48377902	C	A	0.99981838	0.00018162	11012	2	0	1	C
LTX083	LTX083:3:52437799:C	6	3	52437799	C	A	0.999726545	2.48595E-05	40226	1	0	1	S
LTX083	LTX083:15:42042784:C	6	15	42042784	C	T	0.999684101	0.000302165	72808	22	0	2	C

LTX083	LTX083:3:52443736:C	6	3	52443736	C	T	0.999494567	0.000305433	11871	6	0	1	S
LTX083	LTX083:14:51219327:T	6	14	51219327	T	G	0.999351355	7.63111E-05	52417	4	0	2	C
LTX083	LTX083:19:50666043:G	6	19	50666043	G	C	0.999828884	0	46752	0	0	4	C
LTX083	LTX083:11:111229572:C	6	11	111229572	C	T	0.999713804	0.000222597	31447	7	0	2	S
LTX083	LTX083:12:49444965:G	6	12	49444965	G	A	0.999841017	0.000119237	25160	3	0	2	C
LTX083	LTX083:10:72358720:C	6	10	72358720	C	T	0.99941374	0.00058626	18763	11	0	1	C
LTX083	LTX083:15:41988393:G	6	15	41988393	G	C	0.999789185	0	18974	0	0	3	S
LTX084	LTX084:12:25398284:C	3	12	25398284	C	G	0.99958	0.000016344	61185	1	0	1	C
LTX084	LTX084:2:51255338:G	3	2	51255338	G	T	0.99887	0.00018907	5289	1	0	4	C
LTX084	LTX084:5:101595952:C	3	5	101595952	C	T	0.99956	0.00030244	29758	9	0	4	C
LTX084	LTX084:13:60413543:C	3	13	60413543	C	A	0.99974	0	60598	0	0	4	C
LTX084	LTX084:7:78256448:C	3	7	78256448	C	T	0.99979	0.0001971	65957	13	0	4	C
LTX084	LTX084:17:56540520:C	3	17	56540520	C	A	0.9997	0.000011398	87734	1	0	4	C
LTX084	LTX084:4:41663444:C	3	4	41663444	C	A	0.99976	0	46673	0	0	4	C
LTX084	LTX084:16:14029154:G	3	16	14029154	G	T	0.99968	0.00004513	44316	2	0	2	C
LTX084	LTX084:1:12024323:G	3	1	12024323	G	T	0.99935	0	10738	0	0	4	C
LTX084	LTX084:10:68687168:G	3	10	68687168	G	T	0.99931	0.000074472	67139	5	0	4	C
LTX084	LTX084:1:68910321:C	3	1	68910321	C	A	0.99959	0.000015291	65398	1	0	4	C
LTX084	LTX084:1:19449434:C	3	1	19449434	C	A	0.99957	0.000039101	51150	2	0	4	C
LTX084	LTX084:1:207196454:C	3	1	207196454	C	T	0.99973	0.00026534	26381	7	0	4	C
LTX084	LTX084:18:63477161:G	3	18	63477161	G	T	0.99971	0.000061706	64823	4	0	4	C
LTX085	LTX085:4:55561909:A	2	4	55561909	A	G	0.99947	0.00052157	88196	46	1	2	
LTX085	LTX085:3:193132437:C	2	3	193132437	C	A	0.99979	0	47327	0	0	4	
LTX085	LTX085:12:102155369:C	2	12	102155369	C	G	0.99965	0	48607	0	0	2	
LTX085	LTX085:7:107704397:T	2	7	107704397	T	C	0.9998	0.0001261	55513	7	0	4	
LTX085	LTX085:23:48762531:A	2	23	48762531	A	G	0.99986	0.00014368	6960	1	0	4	
LTX085	LTX085:1:159409831:A	2	1	159409831	A	C	0.99922	0.00046707	72794	34	1	4	
LTX085	LTX085:1:186294922:T	2	1	186294922	T	C	0.99955	0.00041795	59816	25	0	2	
LTX085	LTX085:2:70919577:G	2	2	70919577	G	C	0.99967	0	33571	0	0	4	

LTX085	LTX085:12:6923449:A	2	12	6923449	A	G	0.99966	0.0002153	46446	10	0	4	
LTX085	LTX085:2:31598323:A	2	2	31598323	A	G	0.99965	0.0002938	37441	11	0	4	
LTX085	LTX085:16:25232800:G	2	16	25232800	G	A	0.99973	0.00024577	36619	9	0	4	
LTX085	LTX085:7:148544318:G	2	7	148544318	G	A	0.9993	0.00065262	38307	25	0	2	
LTX085	LTX085:18:63526274:C	2	18	63526274	C	T	0.99909	0.00087683	66147	58	1	4	
LTX085	LTX085:1:67243012:A	2	1	67243012	A	G	0.9997	0.00027542	90771	25	0	4	
LTX085	LTX085:20:49195748:T	2	20	49195748	T	C	0.99962	0.00027335	47558	13	0	4	
LTX091	LTX091:19:1220487:G	5	19	1220487	G	A	0.9998	0.0001972	5071	1	0	1	C
LTX091	LTX091:6:106555068:G	5	6	106555068	G	A	0.99942	0.0005213	34529	18	0	1	C
LTX091	LTX091:19:10602907:G	5	19	10602907	G	A	0.99982	0.00013624	22020	3	0	2	C
LTX091	LTX091:1:155874286:A	5	1	155874286	A	C	0.9999	0	69072	0	0	2	C
LTX091	LTX091:1:214170777:G	5	1	214170777	G	T	0.99972	0	53866	0	0	4	C
LTX091	LTX091:12:91449475:A	5	12	91449475	A	C	0.99979	0	92375	0	0	4	C
LTX091	LTX091:11:74800278:G	5	11	74800278	G	T	0.99974	0.000064671	15463	1	0	4	C
LTX091	LTX091:1:54675768:C	5	1	54675768	C	A	0.99982	0	54778	0	0	4	C
LTX091	LTX091:15:42980590:C	5	15	42980590	C	G	0.99976	0.00004216	71157	3	0	4	S
LTX091	LTX091:22:31592935:C	5	22	31592935	C	T	0.99978	0.00017899	72628	13	0	4	S
LTX091	LTX091:4:110791343:C	5	4	110791343	C	T	0.9996	0.00035369	96130	34	0	4	S
LTX091	LTX091:12:114380190:A	5	12	114380190	A	G	0.99985	0.00014522	20658	3	0	4	S
LTX091	LTX091:14:95562863:T	5	14	95562863	T	C	0.99964	0.00031094	61106	19	0	3	S
LTX091	LTX091:2:16082277:G	5	2	16082277	G	A	0.99957	0.00043115	18555	8	0	3	S
LTX091	LTX091:7:142988670:G	5	7	142988670	G	T	0.9995	0.000032283	61953	2	0	4	S
LTX091	LTX091:12:112668613:G	5	12	112668613	G	A	0.99936	0.00054723	42030	23	0	4	S
LTX091	LTX091:17:9559744:C	5	17	9559744	C	T	0.99961	0.00035874	94777	34	0	4	S
LTX091	LTX091:1:109859508:C	5	1	109859508	C	G	0.99973	0.000031462	63569	2	0	4	S
LTX092	LTX092:8:114186036:G	2	8	114186036	G	T	0.98087	0.018693	66818	1249	1	4	C
LTX092	LTX092:19:58190005:G	2	19	58190005	G	T	0.98933	0.010356	44901	465	1	4	C
LTX092	LTX092:17:7577547:C	2	17	7577547	C	A	0.9808	0.018645	28748	536	1	1	
LTX092	LTX092:19:10597426:C	2	19	10597426	C	A	0.97253	0.027234	29118	793	1	2	C

LTX092	LTX092:1:156838371:G	2	1	156838371	G	T	0.96885	0.030434	5553	169	1	2	C
LTX092	LTX092:1:156838370:G	2	1	156838370	G	T	0.96963	0.030374	5564	169	1	2	C
LTX092	LTX092:14:77745131:C	2	14	77745131	C	A	0.97891	0.020695	27640	572	1	4	C
LTX092	LTX092:1:85279719:A	2	1	85279719	A	T	0.99113	0.0085962	40483	348	1	4	C
LTX092	LTX092:10:72358092:G	2	10	72358092	G	T	0.98909	0.01078	29963	323	1	1	C
LTX092	LTX092:7:116397709:T	2	7	116397709	T	A	0.99073	0.0091602	80238	735	1	2	C
LTX092	LTX092:16:15841950:G	2	16	15841950	G	A	0.97311	0.026891	25919	697	1	2	C
LTX092	LTX092:1:247752158:C	2	1	247752158	C	A	0.98262	0.017132	44127	756	1	4	C
LTX092	LTX092:17:36873205:T	2	17	36873205	T	G	0.987	0.012849	19923	256	1	3	C
LTX092	LTX092:14:99641378:T	2	14	99641378	T	A	0.98546	0.014227	3163	45	1	3	S
LTX092	LTX092:17:48266784:G	2	17	48266784	G	C	0.99916	0.00035073	14256	5	1	2	S
LTX092	LTX092:17:29701147:C	2	17	29701147	C	T	0.99937	0.00061359	61931	38	0	1	S
LTX092	LTX092:2:202151263:G	2	2	202151263	G	T	0.99986	0	41743	0	0	1	S
LTX092	LTX092:2:216252944:G	2	2	216252944	G	T	0.99487	0.0047758	42297	202	1	4	
LTX092	LTX092:18:22806392:C	2	18	22806392	C	A	0.99983	0.00017292	5783	1	0	2	
LTX092	LTX092:2:197583282:G	2	2	197583282	G	C	0.99595	0.0036237	91620	332	1	4	S
LTX092	LTX092:3:111632181:G	2	3	111632181	G	T	0.99949	0.0002764	68742	19	1	4	S
LTX093	LTX093:23:77913358:G	2	23	77913358	G	T	0.99311	0.0066273	30631	203	1	4	
LTX093	LTX093:19:30936574:G	2	19	30936574	G	C	0.9904	0.0092412	5627	52	1	4	C
LTX093	LTX093:2:207003321:A	2	2	207003321	A	C	0.99181	0.0081252	61660	501	1	4	C
LTX093	LTX093:19:42301524:C	2	19	42301524	C	A	0.99339	0.0063758	59757	381	1	4	C
LTX093	LTX093:1:240256602:C	2	1	240256602	C	G	0.99473	0.0049597	3226	16	1	4	C
LTX093	LTX093:3:113321899:G	2	3	113321899	G	T	0.99437	0.0053532	39229	210	1	4	C
LTX093	LTX093:9:80144088:T	2	9	80144088	T	G	0.99847	0.001299	43880	57	1	4	S
LTX093	LTX093:1:117527379:C	2	1	117527379	C	A	0.9995	0.00029449	33957	10	1	4	S
LTX093	LTX093:7:142750239:G	2	7	142750239	G	A	0.99909	0.00090752	56197	51	1	4	S
LTX093	LTX093:5:13781004:T	2	5	13781004	T	G	0.99732	0.0021784	63348	138	1	4	S
LTX093	LTX093:16:77387648:G	2	16	77387648	G	C	0.9988	0.00051327	52604	27	1	4	S
LTX093	LTX093:19:15281250:C	2	19	15281250	C	A	0.99959	0.000058796	17008	1	0	4	S

LTX093	LTX093:11:124748000:C	2	11	124748000	C	A	0.99955	0.00041229	26680	11	1	4	S
LTX093	LTX093:17:40765025:T	2	17	40765025	T	A	0.81308	0.00061284	53848	33	1	4	S
LTX093	LTX093:4:100057700:C	2	4	100057700	C	G	0.99973	0.000013739	72785	1	0	4	S
LTX093	LTX093:6:35911801:G	2	6	35911801	G	C	0.99873	0.0009536	57676	55	1	4	S
LTX097	LTX097:1:115256529:T	3	1	115256529	T	C	0.9675	0.032463	24859	807	1	1	C
LTX097	LTX097:17:7577580:T	3	17	7577580	T	C	0.97547	0.024485	23933	586	1	1	C
LTX097	LTX097:2:178098966:C	3	2	178098966	C	T	0.97921	0.020761	39401	818	1	2	C
LTX097	LTX097:19:1083272:C	3	19	1083272	C	T	0.98855	0.011448	4717	54	1	4	C
LTX097	LTX097:5:66460021:G	3	5	66460021	G	A	0.95243	0.047575	10804	514	1	4	C
LTX097	LTX097:1:2939112:G	3	1	2939112	G	C	0.98289	0.016939	29400	498	1	4	C
LTX097	LTX097:7:98609727:G	3	7	98609727	G	A	0.9857	0.014187	36794	522	1	2	C
LTX097	LTX097:15:42059002:G	3	15	42059002	G	C	0.98892	0.010486	51880	544	1	2	C
LTX097	LTX097:22:37903864:A	3	22	37903864	A	C	0.99675	0.003056	20615	63	1	4	S
LTX097	LTX097:2:136615556:C	3	2	136615556	C	T	0.98933	0.01064	60623	645	1	4	C
LTX097	LTX097:22:36722683:G	3	22	36722683	G	A	0.99899	0.00097205	28805	28	1	3	S
LTX097	LTX097:17:10398519:G	3	17	10398519	G	A	0.99838	0.0015944	43904	70	1	4	S
LTX097	LTX097:5:52386370:T	3	5	52386370	T	C	0.99985	0.00010992	45487	5	0	4	S
LTX097	LTX097:11:134018480:G	3	11	134018480	G	A	0.99069	0.009286	51583	479	1	4	S
LTX097	LTX097:19:3978139:G	3	19	3978139	G	A	0.99972	0.00028062	17818	5	0	4	S
LTX097	LTX097:7:121612669:A	3	7	121612669	A	C	0.9995	0.00036843	54285	20	1	4	S
LTX097	LTX097:16:72184618:C	3	16	72184618	C	G	0.99939	0	1652	0	0	4	S
LTX097	LTX097:19:39087699:G	3	19	39087699	G	A	0.9995	0.00038275	26127	10	0	4	S
LTX100	LTX100:19:17442022:C	6	19	17442022	C	A	0.999854224	0	41159	0	0	4	C
LTX100	LTX100:1:196397359:G	6	1	196397359	G	T	0.999691349	8.41774E-05	35639	3	0	4	C
LTX100	LTX100:8:39502888:C	6	8	39502888	C	A	0.999536805	0.000111167	53973	6	0	4	C
LTX100	LTX100:5:169310121:G	6	5	169310121	G	T	0.999573165	8.78779E-05	79656	7	0	4	C
LTX100	LTX100:11:64126738:G	6	11	64126738	G	C	0.999857224	0	7004	0	0	4	C
LTX100	LTX100:18:52586536:G	6	18	52586536	G	C	0.99950453	2.83126E-05	70640	2	0	4	C
LTX100	LTX100:9:138011488:G	6	9	138011488	G	T	0.999712218	0	24324	0	0	4	C

LTX100	LTX100:17:17700464:G	6	17	17700464	G	C	0.999548317	2.50935E-05	39851	1	0	4	C
LTX100	LTX100:11:2161400:G	6	11	2161400	G	T	0.999636873	2.59376E-05	38554	1	0	4	C
LTX100	LTX100:1:3544202:A	6	1	3544202	A	T	0.999513418	7.29874E-05	41103	3	0	NA	C
LTX100	LTX100:12:72893294:T	6	12	72893294	T	A	0.999821253	0	22378	0	0	4	C
LTX100	LTX100:14:65398870:G	6	14	65398870	G	T	0.999570313	3.90625E-05	25600	1	0	4	C
LTX100	LTX100:4:41016238:C	6	4	41016238	C	A	0.999576004	7.70901E-05	77831	6	0	4	C
LTX100	LTX100:3:149498195:G	6	3	149498195	G	C	0.999706319	1.72753E-05	57886	1	0	4	C
LTX100	LTX100:5:148632344:G	6	5	148632344	G	T	0.999655578	0	49358	0	0	4	C
LTX100	LTX100:9:100331259:G	6	9	100331259	G	T	0.999813846	0	48347	0	0	NA	C
LTX100	LTX100:11:1027376:T	6	11	1027376	T	A	0.999859531	4.68231E-05	21357	1	0	4	C
LTX100	LTX100:7:134893553:A	6	7	134893553	A	C	0.999555336	2.47036E-05	40480	1	0	4	C
LTX100	LTX100:1:35370902:G	6	1	35370902	G	T	1	0	1806	0	0	4	C
LTX102	LTX102:8:52721778:C	5	8	52721778	C	A	0.99943	0.000027075	36934	1	0	4	C
LTX102	LTX102:8:30948434:T	5	8	30948434	T	A	0.99955	0.000095734	73119	7	0	1	C
LTX102	LTX102:12:49361733:C	5	12	49361733	C	G	0.99955	0.000015398	64942	1	0	4	C
LTX102	LTX102:13:33109925:C	5	13	33109925	C	A	0.99964	0.000049685	60381	3	0	4	C
LTX102	LTX102:11:92714903:T	5	11	92714903	T	A	0.99982	0	27254	0	0	4	C
LTX102	LTX102:12:25398284:C	5	12	25398284	C	A	0.99965	0.000017579	56886	1	0	1	C
LTX102	LTX102:8:118847703:C	5	8	118847703	C	G	0.99961	0.000016069	62233	1	0	1	C
LTX102	LTX102:9:132963250:G	5	9	132963250	G	T	0.9996	0.000047512	42095	2	0	4	C
LTX102	LTX102:1:156883232:G	5	1	156883232	G	T	0.99967	0	9050	0	0	4	C
LTX102	LTX102:11:85459443:T	5	11	85459443	T	A	0.99979	0.000016284	61410	1	0	4	S
LTX102	LTX102:9:17135350:A	5	9	17135350	A	T	0.9996	0	12424	0	0	4	S
LTX102	LTX102:19:4488790:G	5	19	4488790	G	C	0.99976	0	16811	0	0	4	S
LTX102	LTX102:9:17135349:G	5	9	17135349	G	T	0.99944	0	12439	0	0	4	S
LTX102	LTX102:7:138603666:A	5	7	138603666	A	G	0.9999	0.00010467	85981	9	0	2	S
LTX102	LTX102:17:7577538:C	5	17	7577538	C	T	0.99951	0.00044174	40748	18	0	1	S
LTX102	LTX102:12:49416133:G	5	12	49416133	G	A	0.99953	0.00041883	64465	27	0	1	S
LTX102	LTX102:15:77425561:C	5	15	77425561	C	A	0.99967	0.000033224	60198	2	0	4	S

LTX102	LTX102:15:33855180:A	5	15	33855180	A	C	0.99987	7.6476E-06	130760	1	0	4	S
LTX102	LTX102:6:90398306:G	5	6	90398306	G	C	0.99955	0	50670	0	0	4	S
LTX102	LTX102:18:51731448:A	5	18	51731448	A	C	0.99978	0	76473	0	0	4	S
LTX103	LTX103:17:7578406:C	5	17	7578406	C	T	0.99967	0.00019976	15018	3	0	1	C
LTX103	LTX103:23:84362885:A	5	23	84362885	A	G	0.99983	0.00016548	12086	2	0	4	
LTX103	LTX103:1:154127373:G	5	1	154127373	G	C	0.9998	0	20063	0	0	4	C
LTX103	LTX103:10:96043655:G	5	10	96043655	G	T	0.9996	0.000077256	77664	6	0	4	C
LTX103	LTX103:19:10220867:C	5	19	10220867	C	T	0.99907	0.00092733	11862	11	0	4	C
LTX103	LTX103:14:96777916:G	5	14	96777916	G	C	0.99974	0	81736	0	0	4	C
LTX103	LTX103:19:34857281:C	5	19	34857281	C	A	0.99974	0.000017144	58328	1	0	4	C
LTX103	LTX103:12:56360899:G	5	12	56360899	G	C	0.99952	0	8421	0	0	4	C
LTX103	LTX103:14:51226846:C	5	14	51226846	C	T	0.99933	0.00066905	22420	15	0	2	C
LTX103	LTX103:20:25304046:C	5	20	25304046	C	T	0.99931	0.00065274	56684	37	0	4	C
LTX103	LTX103:7:94937446:T	5	7	94937446	T	C	0.99987	0.000098836	111296	11	0	4	
LTX103	LTX103:16:30999142:A	5	16	30999142	A	G	0.99974	0.00026178	19100	5	0	4	
LTX103	LTX103:1:171076966:G	5	1	171076966	G	A	0.99923	0.00073081	71154	52	1	4	
LTX107	LTX107:3:156272875:C	2	3	156272875	C	A	0.9486	0.050642	3969	201	1	4	
LTX107	LTX107:7:82595317:C	2	7	82595317	C	A	0.9913	0.0084327	71507	603	1	4	C
LTX107	LTX107:7:88965145:G	2	7	88965145	G	C	0.99284	0.0069322	60298	418	1	4	C
LTX107	LTX107:19:55441944:A	2	19	55441944	A	T	0.98816	0.01164	76375	889	1	4	C
LTX107	LTX107:19:10906762:G	2	19	10906762	G	A	0.99168	0.0082324	33283	274	1	1	C
LTX107	LTX107:6:168363207:G	2	6	168363207	G	A	0.99759	0.0024125	1658	4	0	2	S
LTX107	LTX107:18:31324126:C	2	18	31324126	C	A	0.99625	0.0034878	67377	235	1	4	C
LTX107	LTX107:15:78463865:G	2	15	78463865	G	C	0.99513	0.0045748	83501	382	1	4	S
LTX107	LTX107:2:49210252:G	2	2	49210252	G	T	0.99432	0.0052588	93367	491	1	4	S
LTX107	LTX107:8:133045358:G	2	8	133045358	G	T	0.99654	0.002963	2025	6	1	4	S
LTX107	LTX107:5:76128834:T	2	5	76128834	T	G	0.99943	0.00019849	80608	16	1	4	S
LTX107	LTX107:3:105389088:G	2	3	105389088	G	A	0.99915	0.00080863	80383	65	1	1	S
LTX107	LTX107:7:111422930:A	2	7	111422930	A	C	0.99925	0.00044175	61121	27	1	4	S

LTX107	LTX107:23:32381072:A	2	23	32381072	A	C	0.9999	0.0000318	31447	1	0	4		
LTX107	LTX107:23:140996113:G	2	23	140996113	G	T	0.99984	0	30715	0	0	4		
LTX107	LTX107:19:15586421:G	2	19	15586421	G	T	0.99973	0	25849	0	0	4	S	
LTX107	LTX107:7:20689746:G	2	7	20689746	G	C	0.99971	0.000011927	83844	1	0	4	S	
LTX107	LTX107:11:124440051:C	2	11	124440051	C	A	0.99919	0.00041249	80002	33	1	4	S	
LTX107	LTX107:8:61750713:G	2	8	61750713	G	T	0.99975	0.000014897	67129	1	0	4	S	
LTX108	LTX108:15:50288919:T	10	15	50288919	T	A	0.999751223	4.14628E-05	48236	2	0	4	C	
LTX108	LTX108:4:31144238:C	10	4	31144238	C	A	0.999748164	2.09864E-05	47650	1	0	4	C	
LTX108	LTX108:7:150490198:C	10	7	150490198	C	A	0.999558779	0	36263	0	0	4	C	
LTX108	LTX108:5:150922074:G	10	5	150922074	G	C	0.999695241	0	45938	0	0	4	C	
LTX108	LTX108:5:150723106:G	10	5	150723106	G	T	0.999775281	0	40050	0	0	4	C	
LTX108	LTX108:12:96437132:A	10	12	96437132	A	C	0.999762921	0	37962	0	0	4	C	
LTX108	LTX108:12:93100715:G	10	12	93100715	G	T	0.999885068	0	43504	0	0	4	C	
LTX108	LTX108:14:56103197:G	10	14	56103197	G	T	0.999691287	1.92946E-05	51828	1	0	3	C	
LTX108	LTX108:6:109762353:G	10	6	109762353	G	T	0.999358083	0	9347	0	0	4	C	
LTX108	LTX108:5:96071930:A	10	5	96071930	A	T	0.999924959	0	53304	0	0	4	C	
LTX108	LTX108:11:33731800:A	10	11	33731800	A	C	0.999728661	0	51596	0	0	4	C	
LTX108	LTX108:14:38724919:G	10	14	38724919	G	T	0.999604196	0	5053	0	0	4	C	
LTX108	LTX108:15:65759434:T	10	15	65759434	T	G	0.999800446	0	55123	0	0	4	C	
LTX108	LTX108:11:5969447:C	10	11	5969447	C	A	0.999748969	0	55770	0	0	4	C	
LTX108	LTX108:11:4661941:G	10	11	4661941	G	T	0.999543712	4.56288E-05	43832	2	0	4	C	
LTX108	LTX108:8:2975974:G	10	8	2975974	G	T	0.999776086	0	62524	0	0	4	C	
LTX108	LTX108:2:210786307:G	10	2	210786307	G	T	0.99987826	0	41071	0	0	4	C	
LTX108	LTX108:7:98256550:G	10	7	98256550	G	T	0.99438413	4.6799E-05	21368	1	0	4	C	
LTX108	LTX108:2:202545751:C	10	2	202545751	C	G	0.999790912	0	14348	0	0	4	S	
LTX108	LTX108:1:158435860:C	10	1	158435860	C	G	0.999555267	3.70611E-05	53965	2	0	4	S	
LTX109	LTX109:2:165550841:C	6	2	165550841	C	A	0.999749411	2.50589E-05	39906	1	0	4	C	
LTX109	LTX109:11:120998619:G	6	11	120998619	G	T	0.999907579	0	10820	0	0	4	C	
LTX109	LTX109:8:1639792:G	6	8	1639792	G	T	0.999609203	2.44248E-05	40942	1	0	4	C	

LTX109	LTX109:11:5411311:T	6	11	5411311	T	G	0.999563208	0	27473	0	0	4	C
LTX109	LTX109:13:88330370:C	6	13	88330370	C	A	0.999314716	0	5837	0	0	4	C
LTX109	LTX109:1:228468075:A	6	1	228468075	A	T	0.999729159	5.41682E-05	18461	1	0	4	C
LTX109	LTX109:1:237666746:G	6	1	237666746	G	T	0.999512818	0.000115996	43105	5	0	4	C
LTX109	LTX109:9:6328604:T	6	9	6328604	T	A	0.999736351	8.78831E-05	45515	4	0	4	C
LTX109	LTX109:10:91198802:A	6	10	91198802	A	C	0.999705904	0	40803	0	0	4	C
LTX109	LTX109:3:48463099:C	6	3	48463099	C	A	0.999053478	7.88768E-05	38034	3	0	4	C
LTX109	LTX109:1:34663368:C	6	1	34663368	C	A	0.999693003	4.38568E-05	45603	2	0	4	C
LTX109	LTX109:4:155156394:C	6	4	155156394	C	A	0.999665921	0.00016704	29933	5	0	4	C
LTX109	LTX109:3:130368376:C	6	3	130368376	C	A	0.999595546	0	42032	0	0	4	C
LTX109	LTX109:1:237711798:C	6	1	237711798	C	A	0.999658519	0	55640	0	0	4	C
LTX109	LTX109:9:71549910:A	6	9	71549910	A	T	0.99963701	1.81495E-05	55098	1	0	4	C
LTX109	LTX109:7:44189600:C	6	7	44189600	C	A	0.999839171	0	31089	0	0	4	C
LTX109	LTX109:5:33954466:C	6	5	33954466	C	A	0.99973906	5.2188E-05	38323	2	0	4	C
LTX109	LTX109:9:34556410:G	6	9	34556410	G	T	0.999846229	2.56285E-05	39019	1	0	4	S
LTX110	LTX110:3:168845830:C	6	3	168845830	C	A	0.995554297	0.004247487	70630	300	1	2	C
LTX110	LTX110:11:57886693:G	6	11	57886693	G	T	0.998772691	0.000970856	54591	53	1	4	C
LTX110	LTX110:3:70014251:G	6	3	70014251	G	A	0.997661627	0.002258656	37633	85	1	2	C
LTX110	LTX110:4:57181010:C	6	4	57181010	C	G	0.99801241	0.001260423	20628	26	1	4	C
LTX110	LTX110:4:106180868:A	6	4	106180868	A	T	0.998969854	0.000932963	51449	48	1	1	C
LTX110	LTX110:11:55927714:A	6	11	55927714	A	T	0.997752129	0.002096572	46266	97	1	4	C
LTX110	LTX110:3:43408427:T	6	3	43408427	T	A	0.997080465	0.002777118	42130	117	1	4	C
LTX110	LTX110:6:157469761:A	6	6	157469761	A	G	0.997972098	0.001952795	53257	104	1	2	C
LTX110	LTX110:6:152265547:A	6	6	152265547	A	T	0.997763003	0.00211272	32186	68	1	3	C
LTX110	LTX110:4:162577567:G	6	4	162577567	G	T	0.998171025	0.001410481	64517	91	1	4	C
LTX110	LTX110:8:42798576:G	6	8	42798576	G	T	0.998673485	0.000872707	57293	50	1	2	C
LTX110	LTX110:7:31378611:C	6	7	31378611	C	A	0.998867981	0.000855303	39752	34	1	4	C
LTX110	LTX110:8:37734705:C	6	8	37734705	C	A	0.998101266	0.001641614	50560	83	1	4	C
LTX110	LTX110:18:48593406:G	6	18	48593406	G	A	0.999014097	0.000941758	67958	64	1	1A	C

LTX110	LTX110:19:42599717:A	6	19	42599717	A	C	0.997762009	0.001855895	18320	34	1	4	C
LTX110	LTX110:14:93273219:G	6	14	93273219	G	T	0.998031993	0.001597955	59451	95	1	3	C
LTX110	LTX110:6:117641107:G	6	6	117641107	G	T	0.998548087	0.001104272	48901	54	1	2	C
LTX110	LTX110:11:72406892:G	6	11	72406892	G	T	0.998874148	0.000791139	32864	26	1	4	C
LTX110	LTX110:19:10602334:C	6	19	10602334	C	T	0.998561841	0.001438159	10430	15	0	2	C
LTX110	LTX110:3:186793407:C	6	3	186793407	C	A	0.998126766	0.001631005	61925	101	1	4	C
LTX111	LTX111:23:107393382:G	1	23	107393382	G	T	1	0	1605	0	0	4	
LTX111	LTX111:1:169566365:A	1	1	169566365	A	C	0.99829	0.0014019	35666	50	1	4	C
LTX111	LTX111:11:130289177:A	1	11	130289177	A	C	0.99956	0.00018535	43161	8	1	4	C
LTX111	LTX111:11:5529966:C	1	11	5529966	C	A	0.99952	0.00015876	25196	4	0	4	C
LTX111	LTX111:2:179650690:C	1	2	179650690	C	A	0.99917	0.00033732	44468	15	1	4	C
LTX111	LTX111:17:7577100:T	1	17	7577100	T	C	0.99888	0.0010235	21494	22	1	1	C
LTX111	LTX111:12:25380254:C	1	12	25380254	C	G	0.99977	0	60030	0	0	2	S
LTX111	LTX111:2:178098810:C	1	2	178098810	C	G	0.99869	0.00080062	41218	33	1	1	S
LTX111	LTX111:6:105233172:G	1	6	105233172	G	A	0.99953	0.00044529	44915	20	0	4	S
LTX111	LTX111:12:53241845:G	1	12	53241845	G	C	0.99982	0	22756	0	0	4	S
LTX111	LTX111:19:9088996:G	1	19	9088996	G	C	0.99963	0	42874	0	0	4	S
LTX111	LTX111:6:52052591:C	1	6	52052591	C	A	0.99974	0	62614	0	0	4	S
LTX111	LTX111:3:150281319:G	1	3	150281319	G	C	0.99974	0.000018715	53432	1	0	4	S
LTX111	LTX111:11:55681303:C	1	11	55681303	C	A	1	0	1721	0	0	4	S
LTX111	LTX111:8:21766938:C	1	8	21766938	C	G	0.9998	0	5048	0	0	4	S
LTX111	LTX111:19:48949644:G	1	19	48949644	G	A	0.99959	0.00030615	9799	3	0	4	S
LTX111	LTX111:14:20404706:T	1	14	20404706	T	A	0.9998	0	4893	0	0	4	S
LTX113	LTX113:12:49431181:C	10	12	49431181	C	T	0.999750835	0.000199332	20067	4	0	2	C
LTX113	LTX113:11:117864815:T	10	11	117864815	T	A	0.999922871	2.57096E-05	38896	1	0	4	C
LTX113	LTX113:10:73553094:C	10	10	73553094	C	A	0.99924795 1	0.00030082	26594	8	1	4	C
LTX113	LTX113:2:72359406:G	10	2	72359406	G	T	0.999615039	0.00012832	15586	2	0	4	C
LTX113	LTX113:15:57925929:G	10	15	57925929	G	C	0.99925987	0.000211466	47289	10	1	4	C
LTX113	LTX113:4:111427827:C	10	4	111427827	C	A	0.999564767	0.000210112	66631	14	1	4	C

LTX113	LTX113:5:56170952:G	10	5	56170952	G	T	0.999743279	0	27267	0	0	1	C
LTX113	LTX113:5:147019212:C	10	5	147019212	C	A	0.99966679	0	54020	0	0	4	C
LTX113	LTX113:1:176811546:G	10	1	176811546	G	T	0.999462444	0.000244343	40926	10	1	4	C
LTX113	LTX113:5:177633004:T	10	5	177633004	T	A	0.999624916	8.03751E-05	37325	3	0	4	C
LTX113	LTX113:6:160999600:G	10	6	160999600	G	T	0.999640086	0.000199952	50012	10	1	4	C
LTX113	LTX113:3:19575499:G	10	3	19575499	G	T	0.999276884	0.000309907	58082	18	1	4	C
LTX113	LTX113:14:24661971:C	10	14	24661971	C	G	0.999565735	0	52963	0	0	4	C
LTX113	LTX113:11:68854070:G	10	11	68854070	G	C	0.999461762	0.000187213	42732	8	1	4	C
LTX113	LTX113:4:103952924:A	10	4	103952924	A	T	0.999868216	4.3928E-05	45529	2	0	4	C
LTX113	LTX113:9:139397635:C	10	9	139397635	C	A	0.999692023	0	16235	0	0	2	C
LTX113	LTX113:1:21097552:C	10	1	21097552	C	G	0.999552004	0.000173418	69197	12	1	4	C
LTX113	LTX113:9:124962190:C	10	9	124962190	C	T	0.999219899	0.000757812	44866	34	0	4	S
LTX113	LTX113:12:58018751:G	10	12	58018751	G	A	0.999371445	0.000628555	31819	20	0	4	S
LTX115	LTX115:12:25398284:C	2	12	25398284	C	G	0.99969	0	65241	0	0	1	C
LTX115	LTX115:23:48337045:G	2	23	48337045	G	T	0.99926	0	10781	0	0	4	
LTX115	LTX115:16:2131629:C	2	16	2131629	C	A	0.99918	0	29121	0	0	1	C
LTX115	LTX115:12:64178784:A	2	12	64178784	A	T	0.99989	0.000063286	79007	5	0	4	C
LTX115	LTX115:4:153245506:G	2	4	153245506	G	C	0.99966	0.000013192	75805	1	0	1	C
LTX115	LTX115:7:98553923:A	2	7	98553923	A	T	0.99974	0.00002365	42283	1	0	2	C
LTX115	LTX115:10:98408473:G	2	10	98408473	G	T	0.99963	0	13642	0	0	4	C
LTX115	LTX115:21:44524456:G	2	21	44524456	G	A	0.99966	0.00029922	50130	15	0	1	C
LTX115	LTX115:1:12726481:A	2	1	12726481	A	T	0.99979	0.000034352	87332	3	0	4	C
LTX115	LTX115:3:130300717:C	2	3	130300717	C	A	0.99971	9.8325E-06	101704	1	0	4	C
LTX115	LTX115:10:90703560:C	2	10	90703560	C	A	0.99964	0.000054572	54973	3	0	4	S
LTX115	LTX115:17:29654855:A	2	17	29654855	A	T	0.99993	0.00002213	45188	1	0	1	C
LTX115	LTX115:16:76389396:G	2	16	76389396	G	T	0.99958	0.000020352	98269	2	0	4	C
LTX115	LTX115:1:57415347:C	2	1	57415347	C	G	0.99966	0.000032158	93289	3	0	4	S
LTX115	LTX115:19:58326109:C	2	19	58326109	C	A	0.99945	0	12695	0	0	4	C
LTX115	LTX115:2:74687176:C	2	2	74687176	C	A	0.99954	0.000020702	48304	1	0	4	S

LTX115	LTX115:11:66333529:C	2	11	66333529	C	T	0.99975	0.00023077	52000	12	0	4	S
LTX115	LTX115:11:66333530:C	2	11	66333530	C	T	0.99962	0.00034606	52014	18	0	4	S
LTX115	LTX115:4:158262528:C	2	4	158262528	C	T	0.9996	0.00034243	84689	29	0	4	S
LTX118	LTX118:9:113208209:C	9	9	113208209	C	T	0.99944731	0.000521985	65136	34	0	4	C
LTX118	LTX118:10:101646123:G	9	10	101646123	G	T	0.999361137	0	50089	0	0	4	C
LTX118	LTX118:11:55861145:A	9	11	55861145	A	G	0.999850229	0.000131049	53415	7	0	4	C
LTX118	LTX118:19:6501555:C	9	19	6501555	C	G	0.999694916	2.17917E-05	45889	1	0	4	C
LTX118	LTX118:1:198725228:G	9	1	198725228	G	A	0.999632488	0.000336886	32652	11	0	2	C
LTX118	LTX118:6:155728276:T	9	6	155728276	T	C	0.999635684	0.000239682	104305	25	0	4	C
LTX118	LTX118:1:22191398:G	9	1	22191398	G	A	0.999129299	0.000870701	2297	2	0	4	C
LTX118	LTX118:1:151641035:G	9	1	151641035	G	A	0.999632225	0.000348419	51662	18	0	4	C
LTX118	LTX118:5:178050390:G	9	5	178050390	G	A	0.999548675	0.000315927	44314	14	0	4	C
LTX118	LTX118:12:20766548:G	9	12	20766548	G	T	0.999732434	2.67566E-05	37374	1	0	4	C
LTX118	LTX118:20:41306638:C	9	20	41306638	C	T	0.99983337	0.00016663	18004	3	0	4	C
LTX118	LTX118:10:106982911:T	9	10	106982911	T	A	0.99963291	0	43586	0	0	NA	C
LTX118	LTX118:16:77401604:G	9	16	77401604	G	T	0.999636064	2.42624E-05	41216	1	0	4	C
LTX118	LTX118:10:18331694:T	9	10	18331694	T	A	0.999835287	1.49739E-05	66783	1	0	4	C
LTX118	LTX118:17:78071139:G	9	17	78071139	G	A	0.999521425	0.000427299	58507	25	0	NA	C
LTX118	LTX118:7:150779635:C	9	7	150779635	C	T	0.999679296	0.000320704	21827	7	0	4	C
LTX118	LTX118:1:19209667:A	9	1	19209667	A	C	1	0	11204	0	0	4	C
LTX118	LTX118:7:2687664:G	9	7	2687664	G	A	0.999004331	0.000995669	20087	20	0	4	C
LTX118	LTX118:8:52233392:C	9	8	52233392	C	A	0.999726456	2.60518E-05	76770	2	0	4	S
LTX120	LTX120:20:30432471:G	2	20	30432471	G	T	0.9968	0.0029557	4060	12	1	4	C
LTX120	LTX120:17:7578527:A	2	17	7578527	A	G	0.99799	0.0020064	26914	54	1	1	C
LTX120	LTX120:7:137597807:C	2	7	137597807	C	G	0.99645	0.0032727	57140	187	1	2	C
LTX120	LTX120:13:43986184:C	2	13	43986184	C	T	0.9972	0.0027242	91402	249	1	4	C
LTX120	LTX120:3:49294386:C	2	3	49294386	C	G	0.99641	0.0032124	71286	229	1	4	C
LTX120	LTX120:18:346453:G	2	18	346453	G	T	0.99705	0.0025974	59290	154	1	4	C
LTX120	LTX120:7:27582682:C	2	7	27582682	C	A	0.99668	0.0029459	80791	238	1	4	C

LTX120	LTX120:1:182993071:G	2	1	182993071	G	A	0.99854	0.0014616	15736	23	1	4	C
LTX120	LTX120:10:8006756:G	2	10	8006756	G	T	0.99772	0.0019955	69657	139	1	4	C
LTX120	LTX120:10:96798759:G	2	10	96798759	G	T	0.9979	0.0017583	78486	138	1	4	C
LTX120	LTX120:1:6206306:C	2	1	6206306	C	G	0.99864	0.0011431	61237	70	1	4	C
LTX120	LTX120:3:38768524:G	2	3	38768524	G	T	0.99938	0.00030133	46460	14	1	4	C
LTX120	LTX120:3:50324123:A	2	3	50324123	A	T	0.99822	0.0016407	29256	48	1	4	C
LTX120	LTX120:20:62323174:G	2	20	62323174	G	A	0.99771	0.0020749	9157	19	1	4	C
LTX120	LTX120:9:5798962:C	2	9	5798962	C	T	0.99862	0.0013081	94027	123	1	4	C
LTX120	LTX120:2:211521351:G	2	2	211521351	G	T	0.99909	0.00052499	59049	31	1	4	
LTX120	LTX120:2:141359067:A	2	2	141359067	A	G	0.99944	0.00049855	50145	25	0	4	C
LTX120	LTX120:9:131107700:G	2	9	131107700	G	A	0.9979	0.0020982	28119	59	1	4	C
LTX121	LTX121:14:95570254:G	8	14	95570254	G	T	0.999669196	0.000136213	51390	7	1	1	C
LTX121	LTX121:17:7579358:C	8	17	7579358	C	A	0.999601505	0.000221386	22585	5	0	2	C
LTX121	LTX121:17:11593059:A	8	17	11593059	A	T	0.999621356	0.000108184	18487	2	0	4	C
LTX121	LTX121:10:103433303:G	8	10	103433303	G	T	0.999609089	4.88639E-05	20465	1	0	4	C
LTX121	LTX121:9:110251297:C	8	9	110251297	C	G	0.999099302	0	4441	0	0	3	C
LTX121	LTX121:17:43011894:C	8	17	43011894	C	A	0.998943386	6.81686E-05	29339	2	0	4	C
LTX121	LTX121:11:48285561:G	8	11	48285561	G	T	0.999307329	0.000346335	46198	16	1	4	C
LTX121	LTX121:6:51712624:G	8	6	51712624	G	T	0.999650217	2.91486E-05	34307	1	0	4	C
LTX121	LTX121:12:49431006:G	8	12	49431006	G	C	0.999027339	0.000451593	28787	13	1	1A	C
LTX121	LTX121:7:106523488:G	8	7	106523488	G	T	0.999722132	6.9467E-05	43186	3	0	4	C
LTX121	LTX121:17:27899577:G	8	17	27899577	G	T	1	0	1928	0	0	4	C
LTX121	LTX121:1:158736295:A	8	1	158736295	A	T	0.999526917	3.26264E-05	61300	2	0	4	C
LTX121	LTX121:19:56416312:G	8	19	56416312	G	T	0.999785392	1.7884E-05	55916	1	0	4	C
LTX121	LTX121:12:132681673:C	8	12	132681673	C	A	0.999747028	0	15812	0	0	4	C
LTX121	LTX121:4:88964509:G	8	4	88964509	G	T	0.999665499	1.96765E-05	50822	1	0	4	C
LTX121	LTX121:1:120510124:G	8	1	120510124	G	T	0.999771779	3.2603E-05	30672	1	0	2	C
LTX121	LTX121:4:70798307:G	8	4	70798307	G	T	0.999265006	0.000122499	24490	3	0	4	C
LTX121	LTX121:5:1278910:A	8	5	1278910	A	G	0.999666511	0.000200093	14993	3	0	3	S

LTX121	LTX121:8:145151305:C	8	8	145151305	C	G	0.999737452	0	22853	0	0	4	S
LTX124	LTX124:3:169815127:C	10	3	169815127	C	T	0.999697372	0.000279349	42957	12	0	4	C
LTX124	LTX124:17:37902172:A	10	17	37902172	A	G	0.999872381	0.000106349	47015	5	0	4	C
LTX124	LTX124:6:47682595:G	10	6	47682595	G	C	0.999695488	1.9032E-05	52543	1	0	4	C
LTX124	LTX124:7:55259515:T	10	7	55259515	T	G	0.999886381	0	26404	0	0	1A	C
LTX124	LTX124:7:150714975:G	10	7	150714975	G	A	0.999818604	0.000145117	27564	4	0	NA	C
LTX124	LTX124:20:40735547:C	10	20	40735547	C	A	0.999842346	0	44401	0	0	4	C
LTX124	LTX124:3:66312500:C	10	3	66312500	C	T	0.999595907	0.000404093	61867	25	0	4	C
LTX124	LTX124:8:42251782:T	10	8	42251782	T	G	0.999705836	0	44193	0	0	4	C
LTX124	LTX124:1:115226860:A	10	1	115226860	A	T	0.999854932	2.41779E-05	41360	1	0	NA	C
LTX124	LTX124:3:194081608:G	10	3	194081608	G	A	0.999535316	0.000464684	27976	13	0	NA	C
LTX124	LTX124:15:28116387:C	10	15	28116387	C	A	0.999766252	0	38503	0	0	4	C
LTX124	LTX124:17:7577534:C	10	17	7577534	C	A	0.999845168	0	32293	0	0	1A	C
LTX124	LTX124:8:62212683:G	10	8	62212683	G	T	0.999526463	0	27453	0	0	4	C
LTX124	LTX124:15:34018648:C	10	15	34018648	C	T	0.999457266	0.0004652	38693	18	0	4	C
LTX124	LTX124:11:33373769:A	10	11	33373769	A	G	1	0	55041	0	0	NA	C
LTX124	LTX124:1:65845156:G	10	1	65845156	G	A	0.999663276	0.000278668	86124	24	0	4	C
LTX124	LTX124:16:67662436:G	10	16	67662436	G	A	0.999715296	0.000213528	42149	9	0	2	C
LTX124	LTX124:16:28157506:A	10	16	28157506	A	C	0.999737684	0	38122	0	0	4	C
LTX125	LTX125:1:158390084:A	10	1	158390084	A	T	1	0	34594	0	0	4	C
LTX125	LTX125:12:9232257:C	10	12	9232257	C	G	0.999875284	0	40091	0	0	4	C
LTX125	LTX125:19:33167193:G	10	19	33167193	G	T	0.99970728 1	0	13665	0	0	NA	C
LTX125	LTX125:16:67234687:A	10	16	67234687	A	T	0.999489666	0.000382751	7838	3	0	4	C
LTX125	LTX125:17:4579369:C	10	17	4579369	C	A	0.999814849	3.70302E-05	27005	1	0	4	C
LTX125	LTX125:3:30715626:A	10	3	30715626	A	T	0.99984303	1.96213E-05	50965	1	0	4	C
LTX125	LTX125:21:35467973:A	10	21	35467973	A	G	0.999909249	7.56258E-05	66115	5	0	4	C
LTX125	LTX125:12:57423327:G	10	12	57423327	G	T	0.999711937	0	45129	0	0	NA	C
LTX125	LTX125:17:38933525:C	10	17	38933525	C	A	0.99961116	4.8605E-05	41148	2	0	4	C
LTX125	LTX125:12:51399172:A	10	12	51399172	A	T	0.999695512	6.08976E-05	49263	3	0	NA	C

LTX125	LTX125:13:52532509:C	10	13	52532509	C	G	0.999711464	1.60298E-05	62384	1	0	4	C
LTX125	LTX125:20:13850179:C	10	20	13850179	C	A	0.999381437	3.09282E-05	64666	2	0	4	C
LTX125	LTX125:11:66241285:G	10	11	66241285	G	T	0.999042833	0	4179	0	0	NA	C
LTX125	LTX125:7:95661982:C	10	7	95661982	C	G	0.999713789	2.04436E-05	48915	1	0	4	C
LTX125	LTX125:9:103947786:G	10	9	103947786	G	C	0.999464202	0	29862	0	0	4	C
LTX125	LTX125:2:97530765:T	10	2	97530765	T	G	0.999890901	0	18332	0	0	4	C
LTX125	LTX125:19:55798406:G	10	19	55798406	G	T	0.999121155	0	23895	0	0	NA	C
LTX125	LTX125:3:10130634:G	10	3	10130634	G	A	0.99965885	0.000308136	90869	28	0	3	S
LTX125	LTX125:10:61424018:G	10	10	61424018	G	A	0.999708554	0.000267159	41174	11	0	4	S
LTX125	LTX125:15:24923895:G	10	15	24923895	G	C	0.999653796	2.03649E-05	49104	1	0	4	S
LTX126	LTX126:22:37531447:G	1	22	37531447	G	A	0.99938	0.00061848	25870	16	0	4	C
LTX126	LTX126:3:178952085:A	1	3	178952085	A	G	0.99887	0.0010928	53989	59	1	1	C
LTX126	LTX126:22:17488851:C	1	22	17488851	C	A	0.99903	0.00060621	8248	5	1	4	C
LTX126	LTX126:23:31222095:G	1	23	31222095	G	A	0.99897	0.00097348	55471	54	0	4	
LTX126	LTX126:12:68549195:C	1	12	68549195	C	T	0.99926	0.00068912	87068	60	1	4	C
LTX126	LTX126:15:59528785:T	1	15	59528785	T	A	0.99908	0.00063184	49063	31	1	4	C
LTX126	LTX126:12:133303956:G	1	12	133303956	G	T	0.99906	0.00066085	28751	19	1	4	C
LTX126	LTX126:23:101910673:C	1	23	101910673	C	T	0.99958	0.00038012	47354	18	0	4	
LTX126	LTX126:23:69898677:T	1	23	69898677	T	A	0.99953	0.0003221	68302	22	1	4	
LTX126	LTX126:8:38274849:G	1	8	38274849	G	T	0.9996	0.000030507	32779	1	0	1	S
LTX126	LTX126:10:21804258:C	1	10	21804258	C	T	0.99968	0.0002937	78312	23	0	4	S
LTX126	LTX126:16:49671888:C	1	16	49671888	C	T	0.99936	0.00055839	37608	21	0	4	S
LTX126	LTX126:12:85450615:G	1	12	85450615	G	A	0.9997	0.00028713	66173	19	0	4	S
LTX126	LTX126:10:98764454:A	1	10	98764454	A	G	0.99985	0.000043279	46212	2	0	4	S
LTX126	LTX126:1:16332578:G	1	1	16332578	G	A	0.9995	0.00046787	32060	15	0	4	S
LTX126	LTX126:16:24135236:C	1	16	24135236	C	A	0.99974	0.000025943	77091	2	0	4	S
LTX126	LTX126:5:169138975:C	1	5	169138975	C	G	0.99971	0	37813	0	0	4	S
LTX126	LTX126:21:44324122:C	1	21	44324122	C	G	0.99976	0	8252	0	0	4	S
LTX126	LTX126:7:121965604:C	1	7	121965604	C	T	0.99942	0.00051119	46949	24	0	4	S

LTX135	LTX135:14:21869106:C	3	14	21869106	C	T	0.99919	0.00076163	40702	31	0	2	C
LTX135	LTX135:12:49434516:C	3	12	49434516	C	A	0.99897	0.00057221	8738	5	0	1	C
LTX135	LTX135:12:25398284:C	3	12	25398284	C	A	0.99865	0.001023	45945	47	1	1	C
LTX135	LTX135:14:81610301:C	3	14	81610301	C	A	0.99962	0.00018818	42513	8	1	1	C
LTX135	LTX135:15:45007672:C	3	15	45007672	C	G	0.99919	0.00049536	22206	11	1	2	C
LTX135	LTX135:15:88727459:T	3	15	88727459	T	A	0.99964	0	33678	0	0	2	C
LTX135	LTX135:17:7578190:T	3	17	7578190	T	C	0.99989	0.000035104	28487	1	0	1	C
LTX135	LTX135:19:10600420:C	3	19	10600420	C	G	0.99918	0.00059584	31888	19	0	2	C
LTX135	LTX135:17:29663397:G	3	17	29663397	G	T	0.99976	0.000054234	55316	3	0	1	C
LTX135	LTX135:19:45262781:C	3	19	45262781	C	T	0.9992	0.00079859	6261	5	0	2	C
LTX135	LTX135:11:128680482:C	3	11	128680482	C	T	0.99991	0	11391	0	0	2	C
LTX135	LTX135:3:69928297:G	3	3	69928297	G	T	0.99849	0.00079729	45153	36	1	2	S
LTX135	LTX135:8:109260902:G	3	8	109260902	G	C	0.99951	0	28817	0	0	4	S
LTX135	LTX135:17:7674212:G	3	17	7674212	G	C	0.99965	0.000013911	71884	1	0	4	S
LTX135	LTX135:21:31709951:G	3	21	31709951	G	C	0.99947	0.000037656	53113	2	0	4	S
LTX135	LTX135:23:69262973:G	3	23	69262973	G	C	0.99959	0	7406	0	0	4	
LTX135	LTX135:7:1976519:C	3	7	1976519	C	G	0.99979	0.00003519	28417	1	0	4	S
LTX136	LTX136:14:96180348:C	9	14	96180348	C	A	0.987166324	0.012393664	13636	169	1	2	C
LTX136	LTX136:15:52605900:C	9	15	52605900	C	A	0.994997747	0.004281208	22190	95	1	3	C
LTX136	LTX136:5:66396371:G	9	5	66396371	G	T	0.99434596	0.005411457	53590	290	1	4	C
LTX136	LTX136:11:6806292:G	9	11	6806292	G	T	0.993176116	0.006583041	49825	328	1	4	C
LTX136	LTX136:9:77354757:G	9	9	77354757	G	C	0.995719902	0.004065422	74531	303	1	4	C
LTX136	LTX136:6:135520142:C	9	6	135520142	C	G	0.995491226	0.004355066	39035	170	1	2	C
LTX136	LTX136:4:41750621:T	9	4	41750621	T	C	0.996020037	0.003979963	43719	174	1	1	C
LTX136	LTX136:4:1961405:A	9	4	1961405	A	T	0.996665119	0.002828317	47378	134	1	2	C
LTX136	LTX136:7:2949762:G	9	7	2949762	G	T	0.99346245	0.006414971	24474	157	1	2	C
LTX136	LTX136:1:164781345:A	9	1	164781345	A	T	0.99827394	0.001603861	65467	105	1	2	C
LTX136	LTX136:1:248004592:A	9	1	248004592	A	T	0.998161131	0.001379152	8701	12	1	4	C
LTX136	LTX136:2:220155017:G	9	2	220155017	G	C	0.997922109	0.00178105	16844	30	1	4	C

LTX136	LTX136:2:29446293:A	9	2	29446293	A	T	0.999103958	0.000808194	56917	46	1	2	C
LTX136	LTX136:20:9440377:C	9	20	9440377	C	A	0.997430751	0.00248896	12455	31	1	4	C
LTX136	LTX136:7:137801368:G	9	7	137801368	G	T	0.997152052	0.002477715	70226	174	1	4	C
LTX136	LTX136:2:33505192:G	9	2	33505192	G	T	0.998657888	0.001121059	63333	71	1	4	C
LTX136	LTX136:12:6701974:C	9	12	6701974	C	A	0.999142671	0.000521853	53655	28	1	2	C
LTX136	LTX136:1:16245532:A	9	1	16245532	A	G	0.997869708	0.00210478	78393	165	1	1	C
LTX136	LTX136:15:89415268:C	9	15	89415268	C	A	0.995358779	0.004254453	49125	209	1	4	C
LTX136	LTX136:1:26308858:C	9	1	26308858	C	A	0.999868051	4.39831E-05	45472	2	0	4	S
LTX136	LTX136:7:96115674:T	9	7	96115674	T	G	0.999866494	1.90723E-05	52432	1	0	4	S
LTX137	LTX137:3:50404528:G	9	3	50404528	G	A	0.999918633	8.1367E-05	12290	1	0	4	C
LTX137	LTX137:9:138670633:C	9	9	138670633	C	T	0.999122874	0.00083899	26222	22	0	NA	C
LTX137	LTX137:14:101350706:G	9	14	101350706	G	A	0.99969638	0.0002679	55991	15	0	NA	C
LTX137	LTX137:7:44185326:G	9	7	44185326	G	C	0.999785269	0	4657	0	0	4	C
LTX137	LTX137:8:124267300:T	9	8	124267300	T	C	0.999825404	0.000109123	45820	5	0	4	C
LTX137	LTX137:16:1497467:C	9	16	1497467	C	T	0.999713412	0.000286588	20936	6	0	4	C
LTX137	LTX137:19:48389454:C	9	19	48389454	C	T	0.999393992	0.000606008	23102	14	0	4	C
LTX137	LTX137:10:98145831:A	9	10	98145831	A	C	0.999673122	2.04298E-05	48948	1	0	4	C
LTX137	LTX137:6:49483377:G	9	6	49483377	G	A	0.999309673	0.00064972	24626	16	0	NA	C
LTX137	LTX137:22:40798153:C	9	22	40798153	C	T	0.99975611	0.000209048	57403	12	0	4	C
LTX137	LTX137:17:3524605:C	9	17	3524605	C	T	0.99952451	0.000452847	44165	20	0	4	C
LTX137	LTX137:6:44272830:G	9	6	44272830	G	A	0.999677659	0.000290107	62046	18	0	4	C
LTX142	LTX142:17:7577099:C	8	17	7577099	C	T	0.999680398	0.000284091	28160	8	0	1A	C
LTX142	LTX142:1:19166201:G	8	1	19166201	G	C	0.999576679	3.84837E-05	25985	1	0	4	C
LTX142	LTX142:17:41174017:A	8	17	41174017	A	C	1	0	1457	0	0	4	C
LTX142	LTX142:7:55259524:T	8	7	55259524	T	A	0.999880768	0	50322	0	0	1A	C
LTX142	LTX142:4:100128617:C	8	4	100128617	C	A	0.999708212	0	47980	0	0	4	C
LTX142	LTX142:7:12419132:C	8	7	12419132	C	A	0.999639401	0	16639	0	0	4	C
LTX142	LTX142:7:139661754:C	8	7	139661754	C	T	0.999375308	0.000542495	60830	33	0	4	C
LTX142	LTX142:2:9541476:C	8	2	9541476	C	T	0.999430748	0.000525463	22837	12	0	4	C

LTX142	LTX142:5:140710736:T	8	5	140710736	T	A	0.999607439	0.00014721	40758	6	0	4	C	
LTX142	LTX142:6:160469535:G	8	6	160469535	G	T	0.99940814	5.91856E-05	33792	2	0	4	C	
LTX142	LTX142:6:65655721:G	8	6	65655721	G	T	0.999784756	0	41813	0	0	4	C	
LTX142	LTX142:19:15300124:C	8	19	15300124	C	A	0.999299198	4.38001E-05	22831	1	0	NA	C	
LTX142	LTX142:1:40309782:C	8	1	40309782	C	A	0.999504734	3.80974E-05	52497	2	0	4	C	
LTX142	LTX142:16:47732407:T	8	16	47732407	T	G	0.99981361	0	59016	0	0	4	C	
LTX142	LTX142:2:11355065:T	8	2	11355065	T	G	0.999738466	0	38236	0	0	4	C	
LTX142	LTX142:17:74078720:C	8	17	74078720	C	T	0.999462857	0.000537143	18617	10	0	4	C	
LTX142	LTX142:1:244816649:T	8	1	244816649	T	C	1	0	4053	0	0	4	C	
LTX142	LTX142:17:79954414:C	8	17	79954414	C	T	0.999832971	0.000167029	5987	1	0	2	C	
LTX142	LTX142:7:31793050:C	8	7	31793050	C	A	0.999516892	3.45077E-05	28979	1	0	4	C	
LTX143	LTX143:3:47103798:G	8	3	47103798	G	A	0.999796126	0.000203874	49050	10	0	1	C	
LTX143	LTX143:6:25850091:C	8	6	25850091	C	A	0.999177258	0.000198593	35248	7	0	4	C	
LTX143	LTX143:22:42383705:C	8	22	42383705	C	A	0.999522663	4.33943E-05	46089	2	0	4	C	
LTX143	LTX143:18:33795771:A	8	18	33795771	A	T	0.999568594	8.62813E-05	34770	3	0	4	C	
LTX143	LTX143:17:26937541:A	8	17	26937541	A	C	0.999620027	0	44740	0	0	4	C	
LTX143	LTX143:9:140082218:T	8	9	140082218	T	A	0.999824654	2.92244E-05	34218	1	0	4	C	
LTX143	LTX143:18:10789080:G	8	18	10789080	G	T	0.999790128	0	52413	0	0	4	C	
LTX143	LTX143:5:37198820:C	8	5	37198820	C	G	0.999745462	0	62859	0	0	4	C	
LTX143	LTX143:1:51754538:T	8	1	51754538	T	G	0.999438888	0	40990	0	0	4	C	
LTX143	LTX143:14:88946553:G	8	14	88946553	G	T	0.999893248	0	18735	0	0	4	C	
LTX143	LTX143:14:21871730:T	8	14	21871730	T	A	0.999813621	0	53654	0	0	2	C	
LTX143	LTX143:2:15698722:T	8	2	15698722	T	A	0.999629879	6.72948E-05	29720	2	0	4	C	
LTX143	LTX143:1:150444100:T	8	1	150444100	T	A	0.999658772	4.65311E-05	64473	3	0	NA	S	
LTX143	LTX143:12:104174078:C	8	12	104174078	C	G	0.999536393	0	25884	0	0	4	C	
LTX143	LTX143:16:1497665:T	8	16	1497665	T	C	1	0	3702	0	0	NA	S	
LTX143	LTX143:6:151914338:C	8	6	151914338	C	T	0.999404443	0.000456594	50373	23	0	4	C	
LTX143	LTX143:19:34706094:G	8	19	34706094	G	A	0.999405657	0.000559382	57206	32	0	3	S	
LTX143	LTX143:7:2409183:A	8	7	2409183	A	T	0.999530829	7.40796E-05	40497	3	0	4	S	

LTX143	LTX143:10:43698758:G	8	10	43698758	G	C	0.997011952	0	1004	0	0	NA	S
LTX143	LTX143:15:60806877:C	8	15	60806877	C	A	0.999722956	0	46924	0	0	4	S
LTX143	LTX143:17:56676512:G	8	17	56676512	G	T	0.999548178	0	50905	0	0	4	C
LTX144	LTX144:4:3201640:G	4	4	3201640	G	T	0.99941	0.000031157	32096	1	0	4	C
LTX144	LTX144:2:84864406:C	4	2	84864406	C	A	0.9997	0	53121	0	0	4	C
LTX144	LTX144:16:1812912:C	4	16	1812912	C	G	1	0	12939	0	0	4	S
LTX144	LTX144:7:131864446:C	4	7	131864446	C	A	0.99964	0.000065651	30464	2	0	4	C
LTX144	LTX144:23:130220369:T	4	23	130220369	T	A	0.99994	0.000058129	17203	1	0	4	
LTX144	LTX144:10:49944072:C	4	10	49944072	C	G	0.9996	0	70163	0	0	4	S
LTX144	LTX144:22:41566508:G	4	22	41566508	G	A	0.99945	0.00045422	30822	14	0	1	S
LTX144	LTX144:22:50688115:C	4	22	50688115	C	G	0.99984	0	12792	0	0	4	S
LTX144	LTX144:11:69465952:C	4	11	69465952	C	T	0.99983	0.00017316	5775	1	0	2	S
LTX144	LTX144:7:134618237:A	4	7	134618237	A	C	0.99931	0.000027417	36474	1	0	4	S
LTX144	LTX144:6:345914:C	4	6	345914	C	A	0.99969	0.000048806	143425	7	0	4	S
LTX144	LTX144:13:110844627:G	4	13	110844627	G	T	0.99983	0	71852	0	0	4	S
LTX144	LTX144:7:50459535:A	4	7	50459535	A	T	0.99958	0.000088728	78893	7	0	2	S
LTX144	LTX144:1:186303604:T	4	1	186303604	T	A	0.9997	0.000056107	53469	3	0	3	S
LTX144	LTX144:7:98588208:C	4	7	98588208	C	T	0.99975	0.0002284	56918	13	0	2	S
LTX144	LTX144:2:44459475:C	4	2	44459475	C	A	0.9998	0	49860	0	0	4	S
LTX144	LTX144:2:162762359:C	4	2	162762359	C	G	0.99972	0	72185	0	0	4	S
LTX144	LTX144:17:29664428:C	4	17	29664428	C	G	0.99965	0	57273	0	0	1	S
LTX144	LTX144:3:183957527:C	4	3	183957527	C	A	0.99995	0	18216	0	0	4	S
LTX145	LTX145:5:140023551:G	6	5	140023551	G	T	0.999336943	0.000110509	9049	1	0	4	C
LTX145	LTX145:5:13729582:C	6	5	13729582	C	A	0.999144468	0.000469704	59612	28	1	4	C
LTX145	LTX145:3:121341836:T	6	3	121341836	T	A	0.999816161	3.34253E-05	59835	2	0	4	C
LTX145	LTX145:8:132052088:C	6	8	132052088	C	A	0.999696439	4.67017E-05	42825	2	0	NA	C
LTX145	LTX145:11:111614206:T	6	11	111614206	T	G	0.999590312	2.40993E-05	41495	1	0	4	C
LTX145	LTX145:15:65491088:C	6	15	65491088	C	A	0.999582392	0	40708	0	0	4	C
LTX145	LTX145:15:27725970:C	6	15	27725970	C	G	0.999325106	0	10372	0	0	4	C

LTX145	LTX145:4:57796315:A	6	4	57796315	A	C	0.999778133	0	22536	0	0	4	C
LTX145	LTX145:14:74824852:C	6	14	74824852	C	A	0.999459897	0	3703	0	0	4	C
LTX145	LTX145:3:53752345:G	6	3	53752345	G	T	0.999716794	0	21186	0	0	2	C
LTX145	LTX145:1:99772343:T	6	1	99772343	T	A	0.999898481	2.03037E-05	49252	1	0	4	C
LTX145	LTX145:15:30026516:C	6	15	30026516	C	A	0.999571184	1.78674E-05	55968	1	0	4	C
LTX145	LTX145:8:95523466:G	6	8	95523466	G	T	0.999639302	3.60698E-05	27724	1	0	4	C
LTX145	LTX145:1:168066004:C	6	1	168066004	C	A	0.999119654	0.000146724	13631	2	0	4	C
LTX145	LTX145:1:197030056:C	6	1	197030056	C	A	0.999485139	4.68055E-05	64095	3	0	4	C
LTX145	LTX145:5:131714085:G	6	5	131714085	G	C	0.999818107	0	43982	0	0	4	S
LTX145	LTX145:3:168833962:T	6	3	168833962	T	A	0.999570311	4.52304E-05	44218	2	0	2	S
LTX145	LTX145:8:117657285:T	6	8	117657285	T	G	0.999754078	0	60995	0	0	4	S
LTX145	LTX145:2:97268559:G	6	2	97268559	G	A	0.999663262	0.000308677	35636	11	0	NA	S
LTX145	LTX145:9:34993279:G	6	9	34993279	G	A	0.999830756	0.000126933	47269	6	0	4	S
LTX149	LTX149:23:53239876:G	4	23	53239876	G	A	0.99754	0.0023888	41862	100	1	1	
LTX149	LTX149:1:160136469:G	4	1	160136469	G	T	0.99447	0.0053463	31985	171	1	4	C
LTX149	LTX149:16:49669770:C	4	16	49669770	C	T	0.99422	0.0057803	1903	11	1	4	C
LTX149	LTX149:16:3786719:G	4	16	3786719	G	A	0.99799	0.0019825	38840	77	1	2	C
LTX149	LTX149:6:11647416:C	4	6	11647416	C	T	0.99732	0.0026215	33950	89	1	2	C
LTX149	LTX149:19:3783189:C	4	19	3783189	C	T	0.99557	0.0043485	12648	55	1	4	C
LTX149	LTX149:2:201462193:A	4	2	201462193	A	G	0.9971	0.00283	55830	158	1	4	C
LTX149	LTX149:14:70633968:G	4	14	70633968	G	T	0.99766	0.0021075	50771	107	1	4	
LTX149	LTX149:6:50791187:C	4	6	50791187	C	A	0.99859	0.0014124	1416	2	1	4	C
LTX149	LTX149:11:17629929:C	4	11	17629929	C	T	0.99692	0.003081	9088	28	1	4	C
LTX149	LTX149:8:117950562:G	4	8	117950562	G	T	0.99882	0.0011758	1701	2	0	4	C
LTX149	LTX149:20:62837060:G	4	20	62837060	G	A	0.99636	0.0034712	23047	80	1	4	C
LTX149	LTX149:11:47200023:C	4	11	47200023	C	G	0.99231	0.0075168	11441	86	1	4	C
LTX149	LTX149:3:52087959:T	4	3	52087959	T	G	0.99955	0	17693	0	0	4	S
LTX149	LTX149:3:101520185:A	4	3	101520185	A	G	0.99961	0.00030544	45836	14	0	4	S
LTX149	LTX149:15:40763898:G	4	15	40763898	G	T	0.99982	0	5460	0	0	4	S

LTX149	LTX149:10:134161560:C	4	10	134161560	C	T	0.9995	0.00045456	41799	19	0	4	S
LTX156	LTX156:10:50004397:C	7	10	50004397	C	G	0.999460324	0.000319808	50030	16	1	4	C
LTX156	LTX156:12:132271052:G	7	12	132271052	G	T	0.999556541	0.000443459	2255	1	0	4	C
LTX156	LTX156:16:29818790:G	7	16	29818790	G	T	0.99164578	0	2394	0	0	NA	C
LTX156	LTX156:1:28138714:G	7	1	28138714	G	T	0.999603993	3.30006E-05	60605	2	0	4	C
LTX156	LTX156:1:1246450:C	7	1	1246450	C	A	0.999636198	0	21990	0	0	NA	C
LTX156	LTX156:3:99649754:G	7	3	99649754	G	T	0.99963416	1.59061E-05	62869	1	0	4	C
LTX156	LTX156:7:138252243:G	7	7	138252243	G	C	0.99950337	0.000307438	42285	13	1	2	C
LTX156	LTX156:1:27877157:C	7	1	27877157	C	G	0.99969674	0	13190	0	0	4	C
LTX156	LTX156:8:3226817:G	7	8	3226817	G	C	0.999799544	1.82232E-05	54875	1	0	4	C
LTX156	LTX156:4:77662103:A	7	4	77662103	A	C	0.999800717	0	10036	0	0	4	C
LTX156	LTX156:11:534223:G	7	11	534223	G	A	0.999777382	0.000111309	8984	1	0	2	S
LTX156	LTX156:2:210694040:C	7	2	210694040	C	A	0.999791096	6.96347E-05	43082	3	0	4	C
LTX156	LTX156:1:154239006:G	7	1	154239006	G	T	0.999541398	0	56694	0	0	4	C
LTX156	LTX156:10:32306146:G	7	10	32306146	G	A	0.999815829	0.000161149	43438	7	0	2	C
LTX156	LTX156:14:42368142:C	7	14	42368142	C	A	0.999436095	0.000147106	40787	6	0	4	C
LTX156	LTX156:12:7653956:C	7	12	7653956	C	A	0.999521749	4.55477E-05	43910	2	0	4	S
LTX156	LTX156:6:90312838:C	7	6	90312838	C	A	0.999723404	0	28923	0	0	4	S
LTX156	LTX156:12:6494404:G	7	12	6494404	G	C	0.999022324	0	6137	0	0	4	S
LTX156	LTX156:12:111776278:G	7	12	111776278	G	T	0.999806699	0	36213	0	0	4	S
LTX160	LTX160:12:25398284:C	5	12	25398284	C	A	0.99531	0.0044818	56451	253	1	1	C
LTX160	LTX160:22:21990773:C	5	22	21990773	C	T	0.99975	0.00018918	31715	6	0	4	C
LTX160	LTX160:2:27601137:C	5	2	27601137	C	A	0.99914	0	23234	0	0	4	C
LTX160	LTX160:11:64622898:T	5	11	64622898	T	A	0.99529	0.0039904	40096	160	1	4	C
LTX160	LTX160:7:97361937:G	5	7	97361937	G	C	0.99957	0.00018362	32676	6	1	4	C
LTX160	LTX160:5:140744399:C	5	5	140744399	C	T	0.99942	0.00054237	53469	29	0	4	C
LTX160	LTX160:4:8229319:G	5	4	8229319	G	A	0.99932	0.00060473	13229	8	0	4	C
LTX160	LTX160:18:61602264:G	5	18	61602264	G	C	0.99956	0	47765	0	0	4	C
LTX160	LTX160:10:43292571:C	5	10	43292571	C	A	0.99972	0.000045428	88051	4	0	4	C

LTX160	LTX160:19:47491255:C	5	19	47491255	C	T	0.99934	0.00060391	51332	31	0	2	C
LTX160	LTX160:4:66356134:G	5	4	66356134	G	A	0.99891	0.0010277	33083	34	0	4	S
LTX160	LTX160:20:2375907:G	5	20	2375907	G	T	0.99963	0.000028806	34715	1	0	4	S
LTX160	LTX160:15:24921526:G	5	15	24921526	G	T	0.9998	0.000025019	39969	1	0	4	S
LTX160	LTX160:11:104034545:G	5	11	104034545	G	T	0.99953	0.000022471	44501	1	0	4	S
LTX160	LTX160:12:29464049:T	5	12	29464049	T	C	0.99981	0.00013933	57417	8	0	4	S
LTX160	LTX160:11:66190163:G	5	11	66190163	G	A	0.99995	0.000053453	18708	1	0	4	S
LTX160	LTX160:19:11138504:G	5	19	11138504	G	T	0.99976	0.000020175	49566	1	0	1	S
LTX162	LTX162:11:66481562:C	7	11	66481562	C	T	0.999188202	0.000676498	59128	40	0	4	C
LTX162	LTX162:9:90252886:T	7	9	90252886	T	A	0.999781427	0	36601	0	0	4	C
LTX162	LTX162:12:122396246:A	7	12	122396246	A	C	0.999859548	0	56959	0	0	4	C
LTX162	LTX162:5:118280268:G	7	5	118280268	G	T	0.999719422	2.00413E-05	49897	1	0	4	C
LTX162	LTX162:1:27683895:T	7	1	27683895	T	A	0.999861448	3.4638E-05	28870	1	0	4	C
LTX162	LTX162:7:55242481:A	7	7	55242481	A	C	0.99978375	0	32370	0	0	3	C
LTX162	LTX162:9:130374711:T	7	9	130374711	T	G	0.999283753	0.000119374	8377	1	1	4	C
LTX162	LTX162:12:49396782:C	7	12	49396782	C	A	0.999514761	0	39156	0	0	4	S
LTX162	LTX162:6:83828613:C	7	6	83828613	C	G	0.999527023	0	31714	0	0	4	C
LTX162	LTX162:11:18253075:G	7	11	18253075	G	T	0.9997848	1.79334E-05	55762	1	0	4	S
LTX162	LTX162:20:13567899:C	7	20	13567899	C	G	0.999819751	0	49931	0	0	4	S
LTX162	LTX162:16:29993033:A	7	16	29993033	A	T	0.999721302	3.09665E-05	32293	1	0	4	S
LTX162	LTX162:6:12122235:G	7	6	12122235	G	A	0.999541361	0.00037525	47968	18	0	4	S
LTX162	LTX162:6:41752712:G	7	6	41752712	G	C	0.999866471	0	7489	0	0	4	S
LTX162	LTX162:16:67997389:G	7	16	67997389	G	T	0.999551473	1.79411E-05	55738	1	0	4	S
LTX162	LTX162:11:44959763:A	7	11	44959763	A	G	0.999562473	0.000187512	15999	3	0	4	S
LTX162	LTX162:9:136508541:C	7	9	136508541	C	A	0.999583073	0	9594	0	0	4	S
LTX162	LTX162:15:88670416:T	7	15	88670416	T	A	0.999853025	0	47627	0	0	2	S
LTX163	LTX163:17:7577099:C	1	17	7577099	C	T	0.99987	0.00012922	30955	4	0	1	C
LTX163	LTX163:15:42019435:T	1	15	42019435	T	C	0.99985	0.00011673	59968	7	0	2	C
LTX163	LTX163:8:31014903:G	1	8	31014903	G	A	1	0	2359	0	0	1	C

LTX163	LTX163:7:22862311:G	1	7	22862311	G	C	0.99971	0	31239	0	0	4	S	
LTX163	LTX163:3:15084467:G	1	3	15084467	G	T	0.99975	0.000013188	75824	1	0	4	S	
LTX163	LTX163:16:4829736:C	1	16	4829736	C	G	0.99935	0	39856	0	0	2	S	
LTX163	LTX163:1:150802432:G	1	1	150802432	G	A	0.99982	0.00016162	61873	10	0	2	S	
LTX163	LTX163:19:50162959:G	1	19	50162959	G	C	0.99885	0	20870	0	0	4	S	
LTX163	LTX163:22:28196336:C	1	22	28196336	C	A	0.9996	0	4979	0	0	2	S	
LTX163	LTX163:15:41961225:C	1	15	41961225	C	T	0.99964	0.00026081	61348	16	0	2	S	
LTX163	LTX163:9:97325660:G	1	9	97325660	G	C	0.99956	0	22915	0	0	4	S	
LTX163	LTX163:6:53989658:G	1	6	53989658	G	C	0.99955	0.000015596	64117	1	0	4	S	
LTX163	LTX163:16:68772312:G	1	16	68772312	G	C	1	0	4066	0	0	1	S	
LTX163	LTX163:1:51439886:G	1	1	51439886	G	A	0.99955	0.00040801	49019	20	0	1	S	
LTX163	LTX163:19:47440656:G	1	19	47440656	G	T	0.99962	0.000018094	55268	1	0	2	S	
LTX163	LTX163:17:9850237:C	1	17	9850237	C	T	0.99976	0.00024136	20716	5	0	2	S	
LTX163	LTX163:17:74732533:G	1	17	74732533	G	A	0.99905	0	1051	0	0	2	S	
LTX163	LTX163:17:29483072:C	1	17	29483072	C	G	0.99965	0.000022114	45220	1	0	1	S	
LTX163	LTX163:5:169144389:T	1	5	169144389	T	G	0.99984	0.000013041	76682	1	0	4	S	
LTX164	LTX164:1:174219725:G	7	1	174219725	G	T	0.999640309	2.99742E-05	33362	1	0	4	C	
LTX164	LTX164:19:1207182:C	7	19	1207182	C	G	0.999589097	0	7301	0	0	1A	C	
LTX164	LTX164:1:157545325:C	7	1	157545325	C	T	0.999623494	0.000338855	26560	9	0	2	C	
LTX164	LTX164:7:75615283:G	7	7	75615283	G	T	0.999493414	0	1974	0	0	4	C	
LTX164	LTX164:5:161322753:T	7	5	161322753	T	A	0.999769319	0	8670	0	0	4	C	
LTX164	LTX164:2:131487614:A	7	2	131487614	A	T	0.999746216	6.92137E-05	43344	3	0	4	C	
LTX164	LTX164:4:119176820:C	7	4	119176820	C	A	0.99977741	7.50863E-05	13318	1	0	4	C	
LTX164	LTX164:4:186545504:T	7	4	186545504	T	A	0.999716818	0	35313	0	0	4	C	
LTX164	LTX164:5:112178402:A	7	5	112178402	A	T	0.999755256	4.89488E-05	40859	2	0	1A	C	
LTX164	LTX164:5:140203161:G	7	5	140203161	G	T	0.999386126	0	11403	0	0	4	C	
LTX164	LTX164:17:65362542:C	7	17	65362542	C	A	0.999219238	0	6404	0	0	4	C	
LTX164	LTX164:11:107966336:A	7	11	107966336	A	T	0.999923587	3.05651E-05	65434	2	0	4	C	
LTX164	LTX164:3:47307361:C	7	3	47307361	C	A	0.999121888	2.83262E-05	35303	1	0	4	C	

LTX164	LTX164:4:1805534:A	7	4	1805534	A	T	0.999623021	0.00012566	7958	1	0	2	C
LTX164	LTX164:6:114270209:C	7	6	114270209	C	A	0.999701855	0.000114671	43603	5	0	4	C
LTX164	LTX164:5:19571754:G	7	5	19571754	G	T	0.999612735	4.07647E-05	49062	2	0	4	C
LTX164	LTX164:9:140707929:C	7	9	140707929	C	G	0.999661492	9.67165E-05	20679	2	0	4	S
LTX164	LTX164:7:66274029:A	7	7	66274029	A	C	1	0	1061	0	0	4	S
LTX165	LTX165:17:7578457:C	3	17	7578457	C	A	0.99487	0.0045826	18112	83	1	1	C
LTX165	LTX165:4:153245381:T	3	4	153245381	T	C	0.99812	0.0018574	48994	91	1	1	C
LTX165	LTX165:17:71361424:C	3	17	71361424	C	A	0.99745	0.0023585	10600	25	1	4	C
LTX165	LTX165:13:28542956:G	3	13	28542956	G	T	0.99941	0	5112	0	0	2	C
LTX165	LTX165:4:22394224:T	3	4	22394224	T	A	0.99887	0.00059995	60005	36	1	4	C
LTX165	LTX165:14:31061546:G	3	14	31061546	G	C	0.99716	0.0025841	54178	140	1	4	C
LTX165	LTX165:13:32929041:G	3	13	32929041	G	T	0.9977	0.0013951	38706	54	1	2	C
LTX165	LTX165:16:48174630:A	3	16	48174630	A	T	0.99916	0.00065297	53601	35	1	4	C
LTX165	LTX165:14:105518356:C	3	14	105518356	C	T	0.99934	0.00060067	16648	10	0	4	S
LTX165	LTX165:10:6264869:C	3	10	6264869	C	T	0.99818	0.00022742	21986	5	0	4	S
LTX165	LTX165:11:72141386:G	3	11	72141386	G	A	0.99969	0.00028314	35318	10	0	4	S
LTX165	LTX165:1:117644093:G	3	1	117644093	G	A	0.9992	0.00075077	78586	59	1	4	S
LTX165	LTX165:6:27858176:C	3	6	27858176	C	G	0.99967	0.00020839	23994	5	1	4	S
LTX165	LTX165:19:11226802:C	3	19	11226802	C	T	0.99931	0.00058773	40835	24	0	4	S
LTX165	LTX165:11:111228171:G	3	11	111228171	G	A	0.99807	0.0017403	41373	72	1	2	S
LTX165	LTX165:4:106880244:G	3	4	106880244	G	A	0.99884	0.0011612	58558	68	1	4	S
LTX165	LTX165:3:121228960:G	3	3	121228960	G	A	0.99958	0.00036167	74654	27	0	4	
LTX165	LTX165:11:30433103:G	3	11	30433103	G	T	0.99971	0	48955	0	0	4	S
LTX165	LTX165:18:10784905:C	3	18	10784905	C	T	0.99948	0.00038703	59427	23	0	4	S
LTX166	LTX166:8:113326772:G	8	8	113326772	G	C	0.999629492	2.64648E-05	37786	1	0	4	C
LTX166	LTX166:19:36224536:G	8	19	36224536	G	T	0.999661046	0	11801	0	0	2	C
LTX166	LTX166:3:19295239:G	8	3	19295239	G	T	0.999587841	2.57599E-05	38820	1	0	4	C
LTX166	LTX166:19:57327121:G	8	19	57327121	G	C	0.999670836	2.35117E-05	42532	1	0	4	C
LTX166	LTX166:19:55831784:C	8	19	55831784	C	A	0.999429339	3.35683E-05	29790	1	0	4	C

LTX166	LTX166:17:7360034:T	8	17	7360034	T	G	0.99504487	0	36326	0	0	4	C
LTX166	LTX166:11:71725123:C	8	11	71725123	C	A	0.999514209	0	8234	0	0	3	C
LTX166	LTX166:12:102045165:A	8	12	102045165	A	T	0.999605968	1.31344E-05	76136	1	0	4	C
LTX166	LTX166:8:32617796:G	8	8	32617796	G	T	0.999758045	1.86119E-05	53729	1	0	3	C
LTX166	LTX166:17:15961869:T	8	17	15961869	T	A	0.999831429	0.000149841	53390	8	0	1	C
LTX166	LTX166:8:92998516:C	8	8	92998516	C	A	0.999679319	2.91528E-05	34302	1	0	2	C
LTX166	LTX166:1:248059738:C	8	1	248059738	C	A	0.999788605	1.2435E-05	80418	1	0	4	C
LTX166	LTX166:8:117870662:T	8	8	117870662	T	A	0.999761328	3.67188E-05	54468	2	0	1	C
LTX166	LTX166:16:70305742:T	8	16	70305742	T	G	0.999704349	1.55606E-05	64265	1	0	4	C
LTX166	LTX166:4:57181452:C	8	4	57181452	C	A	0.999444064	4.27643E-05	23384	1	0	4	C
LTX166	LTX166:2:231906124:G	8	2	231906124	G	T	0.999694625	6.7861E-05	29472	2	0	4	C
LTX166	LTX166:13:52952149:C	8	13	52952149	C	A	0.999761016	2.9873E-05	33475	1	0	4	C
LTX166	LTX166:16:5037594:C	8	16	5037594	C	A	0.999672292	0	6103	0	0	4	C
LTX170	LTX170:7:134618249:G	8	7	134618249	G	A	0.999761068	0.000204799	29297	6	0	NA	C
LTX170	LTX170:19:19656564:C	8	19	19656564	C	T	0.999861738	0.000138262	21698	3	0	NA	C
LTX170	LTX170:19:10610391:A	8	19	10610391	A	T	0.999617737	0	10464	0	0	2	C
LTX170	LTX170:17:9596477:G	8	17	9596477	G	T	0.999536461	2.43968E-05	40989	1	0	4	C
LTX170	LTX170:12:6494195:T	8	12	6494195	T	A	0.999758201	8.05997E-05	12407	1	0	4	C
LTX170	LTX170:2:100623381:G	8	2	100623381	G	T	0.999209851	0	15187	0	0	2	C
LTX170	LTX170:20:40161941:G	8	20	40161941	G	C	0.9993424	0	28974	0	0	4	C
LTX170	LTX170:8:37595500:C	8	8	37595500	C	A	0.999901075	0	30326	0	0	4	C
LTX170	LTX170:2:210559002:A	8	2	210559002	A	G	0.999778487	0.000221513	54173	12	0	4	C
LTX170	LTX170:3:41266124:A	8	3	41266124	A	G	0.999826097	0.000144919	34502	5	0	1A	C
LTX170	LTX170:20:30747905:G	8	20	30747905	G	T	0.999540803	0	30488	0	0	NA	C
LTX170	LTX170:2:8916998:G	8	2	8916998	G	T	0.999559939	7.76578E-05	38631	3	0	4	C
LTX170	LTX170:12:51865238:C	8	12	51865238	C	T	0.999803729	0.000196271	30570	6	0	4	S
LTX170	LTX170:19:1918968:G	8	19	1918968	G	A	0.999539807	0.000414174	21730	9	0	4	S
LTX175	LTX175:7:154862800:C	1	7	154862800	C	G	0.94742	0.051552	8729	450	1	4	C
LTX175	LTX175:17:7577570:C	1	17	7577570	C	T	0.98373	0.016275	32812	534	1	1	C

LTX175	LTX175:13:28588650:C	1	13	28588650	C	A	0.98402	0.015401	73891	1138	1	2	C	
LTX175	LTX175:19:47424497:C	1	19	47424497	C	G	0.98877	0.010948	60378	661	1	2	C	
LTX175	LTX175:16:77918598:G	1	16	77918598	G	T	0.98704	0.012737	58804	749	1	4	C	
LTX175	LTX175:19:47424731:C	1	19	47424731	C	G	0.9893	0.010616	23644	251	1	2	C	
LTX175	LTX175:17:67029876:T	1	17	67029876	T	G	0.99991	0.000047386	42207	2	0	4	S	
LTX175	LTX175:17:32597315:A	1	17	32597315	A	C	0.99966	0	38169	0	0	4	S	
LTX175	LTX175:2:108881772:G	1	2	108881772	G	T	0.98701	0.012667	71290	903	1	4	C	
LTX175	LTX175:15:88727481:C	1	15	88727481	C	T	0.99982	0.0001804	44346	8	0	2	S	
LTX175	LTX175:4:92520188:C	1	4	92520188	C	A	0.99969	0.00012444	64287	8	0	4	S	
LTX175	LTX175:7:121652018:A	1	7	121652018	A	C	0.99289	0.006984	69158	483	1	4	C	
LTX175	LTX175:17:72610163:G	1	17	72610163	G	T	0.98124	0.018293	31925	584	1	4	S	
LTX175	LTX175:14:20779849:C	1	14	20779849	C	T	0.9996	0.00033564	32773	11	0	2	S	
LTX175	LTX175:2:44556189:T	1	2	44556189	T	G	0.99966	0	61764	0	0	4	S	
LTX175	LTX175:12:109865278:A	1	12	109865278	A	C	0.99989	0	36577	0	0	4	S	
LTX175	LTX175:9:93636537:T	1	9	93636537	T	C	0.99981	0.00017477	51495	9	0	2	S	
LTX175	LTX175:5:9190458:G	1	5	9190458	G	T	0.99981	0	32415	0	0	4	S	
LTX175	LTX175:2:54147457:G	1	2	54147457	G	T	0.99956	0.000039711	50364	2	0	4	S	
LTX175	LTX175:8:77776619:A	1	8	77776619	A	C	0.99987	0.000021237	47087	1	0	4	S	
LTX175	LTX175:12:53070879:C	1	12	53070879	C	G	0.99974	0	66068	0	0	4	S	
LTX180	LTX180:17:7578457:C	1	17	7578457	C	A	0.99972	0	14477	0	0	1	C	
LTX180	LTX180:9:5055705:G	1	9	5055705	G	T	0.99966	0.000030918	32344	1	0	2	C	
LTX180	LTX180:18:42530965:C	1	18	42530965	C	A	0.99976	0	50554	0	0	2	C	
LTX180	LTX180:18:28934317:A	1	18	28934317	A	C	0.9996	0.000022392	44659	1	0	4	C	
LTX180	LTX180:12:14578167:G	1	12	14578167	G	T	0.9997	0.000013781	72565	1	0	4	S	
LTX180	LTX180:23:39923016:C	1	23	39923016	C	T	0.99969	0.00028207	42542	12	0	1		
LTX180	LTX180:11:117307924:G	1	11	117307924	G	C	0.99949	0	29318	0	0	4	C	
LTX180	LTX180:2:27303728:C	1	2	27303728	C	G	1	0	9969	0	0	4	C	
LTX180	LTX180:21:39763593:G	1	21	39763593	G	T	0.99942	0.0000186	53762	1	0	3	S	
LTX180	LTX180:6:83847081:A	1	6	83847081	A	T	0.9998	0.000046397	64660	3	0	4	C	

LTX180	LTX180:4:170077668:T	1	4	170077668	T	A	0.99989	0.000016241	61574	1	0	4	C
LTX180	LTX180:1:1737935:C	1	1	1737935	C	A	0.99959	0	50965	0	0	4	S
LTX180	LTX180:21:38302632:C	1	21	38302632	C	A	0.99962	0.000083077	60185	5	0	4	S
LTX180	LTX180:11:4843295:G	1	11	4843295	G	T	0.99943	0	52505	0	0	4	S
LTX180	LTX180:3:31725537:G	1	3	31725537	G	C	0.99965	0	69116	0	0	4	S
LTX180	LTX180:3:14199848:T	1	3	14199848	T	C	0.99987	0.000064677	61846	4	0	3	S
LTX180	LTX180:23:107423820:G	1	23	107423820	G	T	0.99954	0.000060032	49973	3	0	4	
LTX183	LTX183:18:756629:C	8	18	756629	C	A	0.999772934	0	48444	0	0	4	C
LTX183	LTX183:3:197239083:C	8	3	197239083	C	A	0.999779671	7.3443E-05	13616	1	0	4	C
LTX183	LTX183:18:29054285:C	8	18	29054285	C	A	0.999797583	0	49403	0	0	4	C
LTX183	LTX183:11:7063774:G	8	11	7063774	G	T	0.99934811	0.000108648	9204	1	0	4	C
LTX183	LTX183:17:7578190:T	8	17	7578190	T	C	0.999683344	9.04732E-05	22106	2	0	1A	C
LTX183	LTX183:2:11919675:A	8	2	11919675	A	T	0.999781842	0.000145439	27503	4	0	4	C
LTX183	LTX183:1:161953526:C	8	1	161953526	C	A	0.999344804	5.69736E-05	35104	2	0	4	C
LTX183	LTX183:16:27483215:C	8	16	27483215	C	G	0.999835249	0	24279	0	0	4	C
LTX183	LTX183:17:38512306:T	8	17	38512306	T	C	1	0	8524	0	0	2	C
LTX183	LTX183:2:105858758:C	8	2	105858758	C	A	0.999903698	0	10384	0	0	4	C
LTX183	LTX183:18:63489460:G	8	18	63489460	G	T	0.999866546	0	37466	0	0	4	C
LTX183	LTX183:6:40399776:G	8	6	40399776	G	T	0.999131903	9.64553E-05	20735	2	0	4	C
LTX183	LTX183:9:82323576:G	8	9	82323576	G	T	0.999761564	0	29358	0	0	4	C
LTX183	LTX183:6:128304459:T	8	6	128304459	T	A	0.999476423	0	30559	0	0	2	C
LTX183	LTX183:6:169646298:G	8	6	169646298	G	T	0.999670666	2.35239E-05	42510	1	0	4	C
LTX183	LTX183:8:22009122:C	8	8	22009122	C	A	0.999762794	0	33726	0	0	4	C
LTX183	LTX183:15:40915346:A	8	15	40915346	A	T	0.999783912	8.10329E-05	37022	3	0	2	S
LTX183	LTX183:7:142561407:C	8	7	142561407	C	A	0.999841053	3.17894E-05	31457	1	0	4	S
LTX183	LTX183:1:247614576:C	8	1	247614576	C	A	0.999727799	3.40252E-05	29390	1	0	4	S
LTX183	LTX183:14:70235955:G	8	14	70235955	G	C	0.999812846	3.74308E-05	26716	1	0	4	S
LTX183	LTX183:12:43833461:A	8	12	43833461	A	T	0.999737797	8.74011E-05	22883	2	0	4	S
LTX183	LTX183:1:32742288:G	8	1	32742288	G	T	0.99974675	0	23692	0	0	3	S

LTX185	LTX185:16:27556751:C	1	16	27556751	C	A	0.99968	0.000017837	56062	1	0	4	C
LTX185	LTX185:17:67082851:A	1	17	67082851	A	T	0.99969	0.000022012	45430	1	0	4	C
LTX185	LTX185:19:10610481:A	1	19	10610481	A	C	0.9999	0	19887	0	0	2	C
LTX185	LTX185:17:7579377:G	1	17	7579377	G	A	0.99988	0.000059287	16867	1	0	1	C
LTX185	LTX185:6:88853702:C	1	6	88853702	C	A	0.99953	0.00026905	29734	8	0	4	C
LTX185	LTX185:1:110882959:C	1	1	110882959	C	T	0.99972	0.00028114	14228	4	0	2	C
LTX185	LTX185:1:2494684:C	1	1	2494684	C	T	0.99957	0.00038686	23264	9	0	2	C
LTX185	LTX185:11:118343868:C	1	11	118343868	C	G	0.99971	0.000073037	54767	4	0	4	S
LTX185	LTX185:16:81968086:C	1	16	81968086	C	T	0.99964	0.00030053	46584	14	0	2	C
LTX185	LTX185:2:48602421:G	1	2	48602421	G	C	0.99971	0	58575	0	0	4	S
LTX185	LTX185:16:85141463:G	1	16	85141463	G	T	0.99976	0.000033914	58973	2	0	4	S
LTX185	LTX185:5:56178457:G	1	5	56178457	G	A	0.99988	0.000053369	56212	3	0	2	S
LTX185	LTX185:11:119057379:G	1	11	119057379	G	C	0.99983	0	34744	0	0	4	S
LTX185	LTX185:23:53239695:C	1	23	53239695	C	T	0.99974	0.00026151	22944	6	0	1	
LTX185	LTX185:23:118678418:C	1	23	118678418	C	G	0.99967	0.000030371	32926	1	0	4	
LTX185	LTX185:9:97873900:C	1	9	97873900	C	G	0.99975	0.000023113	43265	1	0	1	S
LTX185	LTX185:4:2339145:C	1	4	2339145	C	G	0.99995	0	21218	0	0	4	S
LTX185	LTX185:1:245849542:C	1	1	245849542	C	A	0.99974	0	26862	0	0	4	S
LTX193	LTX193:3:178952085:A	8	3	178952085	A	G	0.999697561	0.000274944	36371	10	0	1A	C
LTX193	LTX193:1:183861293:A	8	1	183861293	A	T	0.999798351	2.37234E-05	84305	2	0	4	C
LTX193	LTX193:17:28270616:G	8	17	28270616	G	A	0.999762665	0.000172607	46348	8	0	4	C
LTX193	LTX193:17:6661505:G	8	17	6661505	G	C	0.99964316	4.4603E-05	22419	1	0	4	C
LTX193	LTX193:4:148545025:T	8	4	148545025	T	G	0.999843527	1.95591E-05	51127	1	0	4	C
LTX193	LTX193:6:41559003:C	8	6	41559003	C	G	0.99973619	2.6381E-05	37906	1	0	4	C
LTX193	LTX193:1:77588026:C	8	1	77588026	C	A	0.999335478	2.65809E-05	37621	1	0	4	C
LTX193	LTX193:1:900411:G	8	1	900411	G	T	0.99976328	0	21122	0	0	4	C
LTX193	LTX193:19:4409136:A	8	19	4409136	A	C	0.999747955	1.93881E-05	51578	1	0	4	C
LTX193	LTX193:22:50693636:A	8	22	50693636	A	T	0.99988529	3.82365E-05	26153	1	0	4	C
LTX193	LTX193:9:97555200:G	8	9	97555200	G	C	0.999738723	1.86626E-05	53583	1	0	4	C

LTX193	LTX193:16:20931494:G	8	16	20931494	G	T	0.999610811	0	46250	0	0	4	S
LTX193	LTX193:15:41229085:A	8	15	41229085	A	G	0.999824707	0.000131469	45638	6	0	4	S
LTX193	LTX193:15:74337116:A	8	15	74337116	A	C	0.999542125	0	8736	0	0	3	S
LTX193	LTX193:2:202254585:T	8	2	202254585	T	A	0.999647348	1.35636E-05	73727	1	0	4	S
LTX193	LTX193:17:33319614:G	8	17	33319614	G	A	0.999518258	0.000385394	10379	4	0	4	S
LTX193	LTX193:11:61257328:G	8	11	61257328	G	A	0.9994749	0.00042008	9522	4	0	4	S
LTX193	LTX193:17:31415974:C	8	17	31415974	C	A	0.999756	0	57377	0	0	4	S
LTX196	LTX196:9:139413126:C	9	9	139413126	C	T	0.999701626	0.000298374	6703	2	0	2	C
LTX196	LTX196:2:25966523:T	9	2	25966523	T	C	0.999786524	0.000146765	74950	11	0	2	C
LTX196	LTX196:4:187630700:G	9	4	187630700	G	T	0.99967079	7.83834E-05	63789	5	0	2	C
LTX196	LTX196:4:55964374:C	9	4	55964374	C	A	0.999554644	0.000111339	62871	7	0	3	C
LTX196	LTX196:22:40362142:G	9	22	40362142	G	C	0.999424333	0.000343186	90330	31	1	4	C
LTX196	LTX196:4:55127446:C	9	4	55127446	C	A	0.999222967	0.000378016	47617	18	1	2	C
LTX196	LTX196:9:37746099:A	9	9	37746099	A	T	0.998711248	0.001145557	27934	32	1	4	C
LTX196	LTX196:11:35492158:C	9	11	35492158	C	G	0.999347684	0.000340983	67452	23	1	4	C
LTX196	LTX196:7:4285420:G	9	7	4285420	G	T	0.999364242	0.000329652	42469	14	1	4	C
LTX196	LTX196:2:178098810:C	9	2	178098810	C	G	0.9999076	0	43290	0	0	1A	S
LTX196	LTX196:15:42028634:A	9	15	42028634	A	G	0.999719802	0.000254725	39258	10	0	2	S
LTX196	LTX196:12:6690290:T	9	12	6690290	T	C	0.999627699	0.000306601	45662	14	0	2	S
LTX196	LTX196:4:94006209:G	9	4	94006209	G	T	0.999376105	0.000233961	38468	9	0	4	S
LTX196	LTX196:9:117139437:G	9	9	117139437	G	C	0.999358857	0	32754	0	0	4	S
LTX196	LTX196:13:43180688:C	9	13	43180688	C	G	0.99970426	0	67627	0	0	4	S
LTX196	LTX196:12:122839700:C	9	12	122839700	C	G	0.99979707	0	24639	0	0	2	S
LTX196	LTX196:2:27448053:G	9	2	27448053	G	C	0.999511037	0	14316	0	0	4	S
LTX196	LTX196:16:2814836:C	9	16	2814836	C	G	0.999484875	0.000124341	56297	7	1	4	S
LTX196	LTX196:10:12154938:G	9	10	12154938	G	C	0.999706812	0	61394	0	0	4	S
LTX201	LTX201:17:40362191:G	7	17	40362191	G	C	0.985554537	0.014023831	54550	765	1	3	C
LTX201	LTX201:19:6381736:C	7	19	6381736	C	G	0.992267329	0.007525545	14484	109	1	4	C
LTX201	LTX201:19:1220487:G	7	19	1220487	G	A	0.989780658	0.010219342	4012	41	1	1A	C

LTX201	LTX201:5:78610237:G	7	5	78610237	G	C	0.99182525	0.007967419	67525	538	1	4	C
LTX201	LTX201:12:6427936:C	7	12	6427936	C	G	0.992436698	0.007497534	15205	114	1	4	C
LTX201	LTX201:12:13768151:C	7	12	13768151	C	A	0.99214556	0.007568424	45452	344	1	4	C
LTX201	LTX201:1:2411726:G	7	1	2411726	G	T	0.992679526	0.007088078	8606	61	1	4	C
LTX201	LTX201:3:169514030:G	7	3	169514030	G	C	0.991257034	0.008487188	43006	365	1	4	C
LTX201	LTX201:1:11561104:G	7	1	11561104	G	C	0.993199137	0.006418485	36613	235	1	4	C
LTX201	LTX201:4:164271510:G	7	4	164271510	G	T	0.994223685	0.005405759	45877	248	1	4	C
LTX201	LTX201:8:23004525:C	7	8	23004525	C	G	0.995614771	0.004049747	41731	169	1	4	C
LTX201	LTX201:17:7574017:C	7	17	7574017	C	A	0.989973284	0.009663907	30319	293	1	1A	C
LTX201	LTX201:12:70713116:G	7	12	70713116	G	C	0.991943586	0.007677288	52753	405	1	4	C
LTX201	LTX201:14:105707702:C	7	14	105707702	C	G	0.992792471	0.006969264	16788	117	1	4	C
LTX201	LTX201:6:90578290:G	7	6	90578290	G	C	0.996727407	0.003137042	51641	162	1	4	C
LTX201	LTX201:17:40815438:C	7	17	40815438	C	G	0.997655748	0.002039178	62280	127	1	4	C
LTX201	LTX201:13:53616220:G	7	13	53616220	G	C	0.995064762	0.004655072	46401	216	1	4	C
LTX201	LTX201:20:46293955:C	7	20	46293955	C	G	0.992374202	0.007254713	53896	391	1	4	C
LTX201	LTX201:8:32621655:A	7	8	32621655	A	G	0.997012419	0.002987581	51212	153	1	2	S
LTX201	LTX201:5:131013471:A	7	5	131013471	A	C	0.999848846	7.55772E-05	52926	4	0	4	S
LTX201	LTX201:19:57326152:G	7	19	57326152	G	T	0.999664614	0	41743	0	0	4	S
LTX203	LTX203:5:22078734:C	7	5	22078734	C	A	0.997190873	0.002562713	40582	104	1	4	C
LTX203	LTX203:3:142681882:G	7	3	142681882	G	T	0.998440731	0.0011864	29501	35	1	4	C
LTX203	LTX203:1:197390397:G	7	1	197390397	G	C	0.996874393	0.002817905	61748	174	1	4	C
LTX203	LTX203:6:74078509:A	7	6	74078509	A	C	0.998552398	0.001292502	58027	75	1	4	C
LTX203	LTX203:19:54822825:G	7	19	54822825	G	T	0.998057026	0.001700102	20587	35	1	4	C
LTX203	LTX203:5:176522563:G	7	5	176522563	G	T	0.998742455	0.001257545	3976	5	0	3	C
LTX203	LTX203:8:87076348:A	7	8	87076348	A	T	0.998321411	0.00139452	38723	54	1	4	C
LTX203	LTX203:17:7579313:G	7	17	7579313	G	T	0.997130747	0.001956309	15335	30	1	1A	C
LTX203	LTX203:14:51226902:T	7	14	51226902	T	C	0.998367594	0.001602177	33080	53	1	2	C
LTX203	LTX203:2:8871304:C	7	2	8871304	C	A	0.997558276	0.002090396	56927	119	1	4	C
LTX203	LTX203:8:144239885:C	7	8	144239885	C	A	0.997619756	0.001859566	13444	25	1	4	C

LTX203	LTX203:19:51161347:C	7	19	51161347	C	A	0.995223881	0.004776119	3350	16	1	4	C	
LTX203	LTX203:12:46243395:T	7	12	46243395	T	G	0.998760228	0.001033143	48396	50	1	1A	C	
LTX203	LTX203:1:247588067:C	7	1	247588067	C	A	0.995934664	0.00384755	13775	53	1	4	C	
LTX203	LTX203:16:50332821:G	7	16	50332821	G	T	0.998481541	0.001138844	10537	12	1	4	C	
LTX203	LTX203:5:161580183:G	7	5	161580183	G	T	0.997953434	0.001328939	37624	50	1	4	C	
LTX203	LTX203:22:41077781:G	7	22	41077781	G	T	0.999181837	0.000767028	19556	15	1	4	C	
LTX203	LTX203:1:162325112:G	7	1	162325112	G	T	0.998334775	0.001427336	46240	66	1	4	C	
LTX203	LTX203:18:61223556:A	7	18	61223556	A	T	0.998755925	0.001093928	46621	51	1	4	C	
LTX206	LTX206:8:24251659:T	5	8	24251659	T	C	0.999817151	0.000162532	49221	8	0	4	C	
LTX206	LTX206:5:112173860:G	5	5	112173860	G	T	0.999423351	6.06999E-05	32949	2	0	1A	C	
LTX206	LTX206:6:106552983:C	5	6	106552983	C	A	0.999890591	0.000109409	9140	1	0	1	C	
LTX206	LTX206:12:66839174:C	5	12	66839174	C	A	0.999581665	0	33466	0	0	4	C	
LTX206	LTX206:17:7578475:G	5	17	7578475	G	A	0.998831503	0.000934798	8558	8	0	1A	C	
LTX206	LTX206:3:165548547:G	5	3	165548547	G	T	0.999839037	0	31063	0	0	4	C	
LTX206	LTX206:19:47424411:G	5	19	47424411	G	T	0.99888574	0	41283	0	0	2	C	
LTX206	LTX206:22:44004420:C	5	22	44004420	C	A	0.999440991	6.70811E-05	44722	3	0	4	C	
LTX206	LTX206:7:140453155:C	5	7	140453155	C	T	0.999578634	0.000347007	40345	14	0	1A	C	
LTX206	LTX206:17:7577548:C	5	17	7577548	C	A	0.999558718	0	18129	0	0	1A	C	
LTX206	LTX206:11:113650655:G	5	11	113650655	G	T	0.999840273	0	37564	0	0	4	C	
LTX206	LTX206:13:103390783:G	5	13	103390783	G	T	0.999603795	4.40228E-05	45431	2	0	4	S	
LTX206	LTX206:1:216144041:C	5	1	216144041	C	T	0.999684117	0.000294824	47486	14	0	4	S	
LTX206	LTX206:3:121712805:G	5	3	121712805	G	C	0.999364743	0	28335	0	0			
LTX206	LTX206:12:25398285:C	5	12	25398285	C	A	0.999760859	2.98927E-05	33453	1	0			
LTX206	LTX206:5:82833213:C	5	5	82833213	C	A	0.999767111	5.17531E-05	38645	2	0			
LTX206	LTX206:13:88328070:C	5	13	88328070	C	A	0.999641742	2.55898E-05	39078	1	0			
LTX206	LTX206:4:30921862:G	5	4	30921862	G	C	0.999880306	0	25064	0	0			
LTX206	LTX206:16:30510661:C	5	16	30510661	C	T	0.999701915	0.000298085	13419	4	0			
LTX210	LTX210:19:1207033:A	1	19	1207033	A	T	0.98324	0.016512	8176	135	1	1	C	
LTX210	LTX210:10:135084385:C	1	10	135084385	C	A	0.98926	0.010739	3073	33	1	4	C	

LTX210	LTX210:4:164449923:G	1	4	164449923	G	T	0.99545	0.0040843	48968	200	1	4	C
LTX210	LTX210:13:98043699:G	1	13	98043699	G	T	0.99673	0.0029462	58380	172	1	4	C
LTX210	LTX210:6:28403341:T	1	6	28403341	T	G	0.99199	0.0075751	61781	468	1	4	S
LTX210	LTX210:14:64924932:A	1	14	64924932	A	T	0.99555	0.0042552	57577	245	1	4	S
LTX210	LTX210:2:186656211:A	1	2	186656211	A	T	0.99667	0.0032995	62131	205	1	4	S
LTX210	LTX210:7:84694809:G	1	7	84694809	G	C	0.99548	0.0039862	55943	223	1	4	S
LTX210	LTX210:23:147733580:A	1	23	147733580	A	C	0.99979	0	23830	0	0	4	
LTX210	LTX210:23:92927241:T	1	23	92927241	T	G	0.99979	0	23718	0	0	4	
LTX210	LTX210:13:86369947:A	1	13	86369947	A	T	0.99916	0.00075204	59837	45	1	4	S
LTX210	LTX210:7:45124878:C	1	7	45124878	C	G	0.99907	0.00057762	22506	13	1	4	S
LTX210	LTX210:23:26236064:A	1	23	26236064	A	T	0.99988	0.000031169	32083	1	0	4	
LTX210	LTX210:1:158617494:T	1	1	158617494	T	G	0.9997	0	36822	0	0	4	S
LTX210	LTX210:9:139409757:C	1	9	139409757	C	T	0.99976	0.00024231	12381	3	0	2	S
LTX210	LTX210:1:89732158:G	1	1	89732158	G	T	0.99969	0.000085472	58499	5	0	4	S
LTX210	LTX210:19:57325219:T	1	19	57325219	T	A	0.99981	0.000064647	46406	3	0	4	S
LTX210	LTX210:4:15444043:C	1	4	15444043	C	A	0.99954	0.000099568	50217	5	0	4	S
LTX216	LTX216:19:45916983:G	9	19	45916983	G	T	0.998828735	6.50703E-05	15368	1	0	NA	C
LTX216	LTX216:16:27221703:G	9	16	27221703	G	A	0.990926723	0.009007528	30419	274	1	4	C
LTX216	LTX216:19:52076607:C	9	19	52076607	C	A	0.999631628	2.16689E-05	46149	1	0	4	C
LTX216	LTX216:20:33523435:C	9	20	33523435	C	T	0.999668942	0.000331058	39268	13	0	4	C
LTX216	LTX216:22:32257386:C	9	22	32257386	C	A	0.999658553	4.87781E-05	20501	1	0	4	C
LTX216	LTX216:7:128452932:G	9	7	128452932	G	C	0.999638813	3.61187E-05	55373	2	0	4	C
LTX216	LTX216:14:74401044:C	9	14	74401044	C	A	0.9995566	2.217E-05	45106	1	0	4	C
LTX216	LTX216:6:26045641:G	9	6	26045641	G	T	0.99984243	0	31732	0	0	4	C
LTX216	LTX216:11:61050308:G	9	11	61050308	G	T	0.999673233	9.3362E-05	64266	6	0	4	S
LTX216	LTX216:1:1231396:G	9	1	1231396	G	A	0.999403903	0.000564724	31874	18	0	4	S
LTX216	LTX216:1:111146597:G	9	1	111146597	G	A	0.999702862	0.000247615	60578	15	0	NA	S
LTX216	LTX216:8:41166184:G	9	8	41166184	G	C	0.9997997	0	9985	0	0	NA	S
LTX216	LTX216:1:26691630:T	9	1	26691630	T	A	0.999455206	0.000121065	16520	2	0	4	S

LTX216	LTX216:2:155711700:G	9	2	155711700	G	C	0.999757805	4.84391E-05	41289	2	0	4	S
LTX216	LTX216:17:38126860:C	9	17	38126860	C	A	0.999236327	0	17023	0	0	4	S
LTX216	LTX216:1:197411404:C	9	1	197411404	C	T	0.999501321	0.000398943	20053	8	0	NA	S
LTX216	LTX216:12:2714893:G	9	12	2714893	G	A	0.997832049	0.002115711	38285	81	0	4	S
LTX216	LTX216:1:150902451:C	9	1	150902451	C	G	0.999759705	0	45777	0	0	2	S
LTX221	LTX221:1:198701441:G	7	1	198701441	G	T	0.999657452	0	29193	0	0	3	C
LTX221	LTX221:10:3821771:C	7	10	3821771	C	A	0.999943298	0	17636	0	0	1	C
LTX221	LTX221:4:94377023:C	7	4	94377023	C	A	0.999711124	4.44425E-05	45002	2	0	4	C
LTX221	LTX221:5:174151798:C	7	5	174151798	C	A	0.999208109	0.000158378	6314	1	0	4	C
LTX221	LTX221:1:60314811:A	7	1	60314811	A	T	0.999849011	5.03297E-05	39738	2	0	4	C
LTX221	LTX221:18:44113134:G	7	18	44113134	G	T	0.99949886	5.0114E-05	39909	2	0	4	C
LTX221	LTX221:12:29709874:G	7	12	29709874	G	T	0.999674167	1.81018E-05	55243	1	0	4	C
LTX221	LTX221:7:128850948:C	7	7	128850948	C	T	0.999708964	0.000194024	10308	2	0	2	C
LTX221	LTX221:3:142985603:C	7	3	142985603	C	A	0.999239186	2.23769E-05	44689	1	0	4	C
LTX221	LTX221:14:57114011:C	7	14	57114011	C	A	0.999722176	0	35994	0	0	4	C
LTX221	LTX221:18:61226882:G	7	18	61226882	G	T	0.999750156	4.16406E-05	24015	1	0	4	C
LTX221	LTX221:11:1016493:G	7	11	1016493	G	T	0.999543353	0	35038	0	0	4	C
LTX221	LTX221:1:158622433:G	7	1	158622433	G	C	0.999657456	2.85453E-05	35032	1	0	4	C
LTX221	LTX221:21:32526616:C	7	21	32526616	C	G	0.999652174	3.47826E-05	28750	1	0	4	C
LTX221	LTX221:7:115580943:C	7	7	115580943	C	A	0.999783602	0	36969	0	0	4	S
LTX221	LTX221:22:29115418:T	7	22	29115418	T	G	0.999692363	2.56364E-05	39007	1	0	3	S
LTX221	LTX221:2:192194687:G	7	2	192194687	G	T	0.999737596	2.01849E-05	49542	1	0	4	S
LTX221	LTX221:3:49321474:G	7	3	49321474	G	T	0.999731988	2.43647E-05	41043	1	0	4	S
LTX221	LTX221:7:47851531:C	7	7	47851531	C	T	0.998826468	0.001083261	33233	36	1	4	S
LTX223	LTX223:1:236898981:C	8	1	236898981	C	A	0.999405563	0.000250289	31963	8	1	4	C
LTX223	LTX223:1:197053484:C	8	1	197053484	C	A	0.999483915	0	34878	0	0	4	C
LTX223	LTX223:2:88367465:T	8	2	88367465	T	A	0.999892914	2.67716E-05	37353	1	0	4	C
LTX223	LTX223:16:3823769:G	8	16	3823769	G	A	0.999762902	0.000237098	12653	3	0	2	C
LTX223	LTX223:19:17948799:G	8	19	17948799	G	A	0.999699406	0.000225445	13307	3	0	2	C

LTX223	LTX223:12:25380276:T	8	12	25380276	T	A	0.999799748	6.00757E-05	49937	3	0	1A	C
LTX223	LTX223:12:70956841:C	8	12	70956841	C	A	0.999562231	0	29696	0	0	2	C
LTX223	LTX223:16:66881106:T	8	16	66881106	T	A	0.999528413	5.89484E-05	33928	2	0	4	C
LTX223	LTX223:7:131122632:C	8	7	131122632	C	A	0.999620455	2.5303E-05	39521	1	0	4	C
LTX223	LTX223:10:108439449:G	8	10	108439449	G	T	0.999697527	2.52061E-05	39673	1	0	4	C
LTX223	LTX223:16:87744981:C	8	16	87744981	C	A	0.998409091	0	4400	0	0	4	C
LTX223	LTX223:4:140640665:G	8	4	140640665	G	C	0.999858035	0	28176	0	0	4	C
LTX223	LTX223:11:114027139:A	8	11	114027139	A	T	0.999647335	3.9185E-05	25520	1	0	3	C
LTX223	LTX223:1:237947367:C	8	1	237947367	C	A	0.999688503	4.79226E-05	41734	2	0	4	C
LTX223	LTX223:1:161683145:G	8	1	161683145	G	T	0.99944219 8	0	35855	0	0	4	C
LTX223	LTX223:2:180008479:C	8	2	180008479	C	A	0.999721046	2.53595E-05	39433	1	0	4	S
LTX223	LTX223:1:59247967:C	8	1	59247967	C	G	0.99953617 8	0	4312	0	0	3	S
LTX223	LTX223:20:56098178:C	8	20	56098178	C	A	0.999740588	0	61678	0	0	4	C
LTX223	LTX223:12:52448422:G	8	12	52448422	G	A	0.99944219 8	0.000557802	14342	8	0	4	S
LTX223	LTX223:6:128540153:G	8	6	128540153	G	A	0.99946158 4	0.000511495	37146	19	0	2	S
LTX225	LTX225:17:7578205:C	6	17	7578205	C	A	0.999653428	2.31048E-05	43281	1	0	1A	C
LTX225	LTX225:12:104408833:A	6	12	104408833	A	G	0.999705837	0.000232234	64590	15	0	4	C
LTX225	LTX225:1:151141527:A	6	1	151141527	A	C	0.999652986	0	63398	0	0	4	C
LTX225	LTX225:2:99182129:A	6	2	99182129	A	G	0.999329309	0.000536553	7455	4	0	4	C
LTX225	LTX225:10:118310697:A	6	10	118310697	A	T	0.999781277	3.36496E-05	59436	2	0	4	C
LTX225	LTX225:10:50028323:C	6	10	50028323	C	T	0.999806023	0.000145483	20621	3	0	NA	C
LTX225	LTX225:18:44149596:G	6	18	44149596	G	A	0.999627838	0.000272919	40305	11	0	4	C
LTX225	LTX225:19:1051534:G	6	19	1051534	G	T	0.999843248	0	12759	0	0	4	C
LTX225	LTX225:19:47207620:C	6	19	47207620	C	T	0.999335511	0.000664489	36118	24	0	4	S
LTX225	LTX225:7:24905006:G	6	7	24905006	G	C	0.999636147	0	60464	0	0	4	C
LTX225	LTX225:21:42830594:G	6	21	42830594	G	A	0.999234816	0.000765184	10455	8	0	4	S
LTX225	LTX225:11:76877203:G	6	11	76877203	G	A	0.999321885	0.000638226	50139	32	0	4	S
LTX225	LTX225:1:205889344:A	6	1	205889344	A	G	0.999691772	0.000281426	74620	21	0	NA	S
LTX225	LTX225:13:113479755:C	6	13	113479755	C	T	0.999050486	0.000833719	43180	36	0	4	S

LTX225	LTX225:12:81532998:G	6	12	81532998	G	T	0.999562181	4.16971E-05	47965	2	0	4	S
LTX225	LTX225:19:10570296:G	6	19	10570296	G	A	0.999455465	0.000544535	25710	14	0	4	S
LTX225	LTX225:16:546834:C	6	16	546834	C	T	0.999286399	0.000366995	49047	18	0	4	S
LTX227	LTX227:19:11144123:A	8	19	11144123	A	G	0.999428058	0.000571942	36717	21	0	1A	C
LTX227	LTX227:5:81614068:G	8	5	81614068	G	C	0.998639335	0.001064868	33807	36	1	NA	C
LTX227	LTX227:10:89311887:G	8	10	89311887	G	T	0.999521083	0.000261227	45937	12	1	4	C
LTX227	LTX227:1:100155391:G	8	1	100155391	G	C	0.999223318	0.000409916	46351	19	1	4	C
LTX227	LTX227:11:111796705:A	8	11	111796705	A	G	0.99932935	0.00067065	32804	22	0	4	C
LTX227	LTX227:20:51873087:C	8	20	51873087	C	T	0.998761731	0.001205683	30688	37	1	NA	C
LTX227	LTX227:10:123970420:G	8	10	123970420	G	C	0.998396641	0.001336133	26195	35	1	4	C
LTX227	LTX227:5:13841114:C	8	5	13841114	C	G	0.998959251	0.000740533	49964	37	1	4	C
LTX227	LTX227:5:19483462:A	8	5	19483462	A	C	0.999682867	0	25226	0	0	4	C
LTX227	LTX227:2:179412185:C	8	2	179412185	C	G	0.99968928	0	28965	0	0	4	S
LTX227	LTX227:2:215919324:C	8	2	215919324	C	T	0.999878268	0.000121732	41074	5	0	4	S
LTX227	LTX227:17:27183361:C	8	17	27183361	C	G	0.999799394	2.00606E-05	49849	1	0	NA	S
LTX227	LTX227:10:75305393:A	8	10	75305393	A	T	0.99965427	0.00019756	20247	4	0	4	S
LTX227	LTX227:12:131286011:G	8	12	131286011	G	C	0.999512623	3.24918E-05	30777	1	0	2	S
LTX227	LTX227:1:15361347:G	8	1	15361347	G	C	0.999515926	0	20658	0	0	4	S
LTX227	LTX227:9:100092681:A	8	9	100092681	A	C	0.999738498	0	61185	0	0	4	S
LTX227	LTX227:11:12904658:C	8	11	12904658	C	T	0.999487841	0.000471186	48813	23	0	4	S
LTX227	LTX227:1:200801898:A	8	1	200801898	A	G	0.999855717	0.000115427	34654	4	0	NA	S
LTX227	LTX227:13:103518682:A	8	13	103518682	A	C	0.999707407	4.1799E-05	23924	1	0	1	S
LTX227	LTX227:18:28935056:G	8	18	28935056	G	A	0.999756361	0.000208834	28731	6	0	4	S
LTX232	LTX232:5:98129419:C	10	5	98129419	C	G	0.99970758	0.000136463	51296	7	1	4	C
LTX232	LTX232:7:98608873:G	10	7	98608873	G	T	0.999601392	3.62371E-05	55192	2	0	3	C
LTX232	LTX232:16:30410401:G	10	16	30410401	G	C	0.999737831	0.000262169	11443	3	1	4	C
LTX232	LTX232:17:7578239:C	10	17	7578239	C	A	0.999645973	8.33004E-05	48019	4	0	1A	C
LTX232	LTX232:9:131775296:A	10	9	131775296	A	T	0.999639083	0.000200509	49873	10	1	4	C
LTX232	LTX232:1:156812918:C	10	1	156812918	C	G	0.999813227	0	53541	0	0	4	C

LTX232	LTX232:8:113275889:C	10	8	113275889	C	A	0.99954048	6.8077E-05	58757	4	0	4	C
LTX232	LTX232:3:87018224:C	10	3	87018224	C	G	0.999608516	1.86421E-05	53642	1	0	4	C
LTX232	LTX232:1:167023637:C	10	1	167023637	C	A	0.999639463	0.000334784	38831	13	0	4	C
LTX232	LTX232:7:44574064:G	10	7	44574064	G	C	0.999736046	0	49251	0	0	4	C
LTX232	LTX232:1:196254812:C	10	1	196254812	C	A	0.999728937	1.59449E-05	62716	1	0	4	C
LTX232	LTX232:11:6048513:G	10	11	6048513	G	T	0.999743241	0.00012838	38947	5	0	4	C
LTX232	LTX232:1:3987875:A	10	1	3987875	A	C	0.999875961	6.20194E-05	16124	1	0	4	C
LTX232	LTX232:16:3820729:T	10	16	3820729	T	A	0.999935031	6.49688E-05	15392	1	0	3	C
LTX232	LTX232:3:128199890:G	10	3	128199890	G	T	1	0	1065	0	0	2	C
LTX232	LTX232:6:41126665:G	10	6	41126665	G	T	0.999694243	0	22894	0	0	4	C
LTX232	LTX232:9:127302315:G	10	9	127302315	G	C	0.999731514	3.66117E-05	81941	3	0	4	C
LTX232	LTX232:3:111603127:C	10	3	111603127	C	A	0.999271127	0.00035756	72715	26	1	4	C
LTX232	LTX232:3:9027267:G	10	3	9027267	G	A	0.99957483	0.00042517	2352	1	0	2	S
LTX240	LTX240:17:53345388:C	9	17	53345388	C	T	0.995138889	0.004861111	4320	21	1	2	C
LTX240	LTX240:3:50151524:G	9	3	50151524	G	C	0.993463778	0.006159132	47734	294	1	4	C
LTX240	LTX240:17:7348637:C	9	17	7348637	C	G	0.995947589	0.004052411	7403	30	1	4	C
LTX240	LTX240:3:52595892:C	9	3	52595892	C	A	0.994294272	0.005459302	52754	288	1	1	C
LTX240	LTX240:17:76565463:G	9	17	76565463	G	C	0.995676692	0.003994361	42560	170	1	4	C
LTX240	LTX240:17:19700759:C	9	17	19700759	C	G	0.995159587	0.004559616	74787	341	1	4	C
LTX240	LTX240:9:119139871:C	9	9	119139871	C	A	0.995565002	0.004167225	59752	249	1	4	C
LTX240	LTX240:13:20567277:C	9	13	20567277	C	T	0.994325329	0.005618763	71546	402	1	2	C
LTX240	LTX240:20:31025116:G	9	20	31025116	G	T	0.994937167	0.00479161	66366	318	1	1A	C
LTX240	LTX240:11:68703707:G	9	11	68703707	G	C	0.994324553	0.005492368	43697	240	1	4	C
LTX240	LTX240:11:102980342:C	9	11	102980342	C	G	0.995926202	0.003956285	25529	101	1	4	C
LTX240	LTX240:16:15814067:G	9	16	15814067	G	C	0.996892225	0.002931863	34108	100	1	2	C
LTX240	LTX240:14:67389569:G	9	14	67389569	G	C	0.994417543	0.005304876	32423	172	1	2	C
LTX240	LTX240:15:51350521:C	9	15	51350521	C	G	0.996102031	0.003515011	73115	257	1	4	C
LTX240	LTX240:22:36714329:C	9	22	36714329	C	T	0.996610591	0.003353918	56352	189	1	2	C
LTX240	LTX240:3:48456305:G	9	3	48456305	G	C	0.995508478	0.004229517	26717	113	1	4	C

LTX240	LTX240:4:55139775:G	9	4	55139775	G	T	0.995649034	0.003906612	54011	211	1	3	C
LTX240	LTX240:3:193854264:C	9	3	193854264	C	G	0.999830381	0.000769375	53290	41	1	4	C
LTX240	LTX240:12:109331093:C	9	12	109331093	C	G	0.99975163	2.06975E-05	48315	1	0	4	S
LTX242	LTX242:17:7578461:C	8	17	7578461	C	A	0.998101484	0.001467035	11588	17	0	1A	C
LTX242	LTX242:7:94293806:C	8	7	94293806	C	G	0.999535028	6.19963E-05	32260	2	0	4	C
LTX242	LTX242:21:15746063:C	8	21	15746063	C	A	0.99944688	0.000221248	72317	16	1	4	C
LTX242	LTX242:19:50792785:G	8	19	50792785	G	T	0.999469726	9.64134E-05	20744	2	0	NA	C
LTX242	LTX242:2:20974648:G	8	2	20974648	G	T	0.999072525	0.000577771	65770	38	1	4	C
LTX242	LTX242:13:114622561:G	8	13	114622561	G	C	0.998532864	0.000586854	6816	4	1	4	C
LTX242	LTX242:20:23586282:G	8	20	23586282	G	T	0.999401724	0.000373923	53487	20	1	4	C
LTX242	LTX242:14:52509589:C	8	14	52509589	C	A	0.999112439	0.000521266	70981	37	1	4	C
LTX242	LTX242:2:168726250:C	8	2	168726250	C	G	0.999091896	0.000376531	45149	17	1	4	C
LTX242	LTX242:20:41385131:A	8	20	41385131	A	T	0.999889965	0	18176	0	0	4	C
LTX242	LTX242:1:15986430:G	8	1	15986430	G	C	0.999843268	0	19141	0	0	4	C
LTX242	LTX242:19:52148744:T	8	19	52148744	T	A	0.99885773	0.000913816	17509	16	1	4	C
LTX242	LTX242:5:1394859:G	8	5	1394859	G	C	0.999501768	0.000284704	42149	12	1	NA	C
LTX242	LTX242:4:90169956:C	8	4	90169956	C	G	0.999573379	1.64085E-05	60944	1	0	4	S
LTX242	LTX242:4:170028027:C	8	4	170028027	C	G	0.999635214	1.73708E-05	57568	1	0	4	S
LTX242	LTX242:4:187549878:G	8	4	187549878	G	A	0.999557688	0.000442312	45217	20	0	2	S
LTX242	LTX242:2:170789445:G	8	2	170789445	G	C	0.999634299	0	57424	0	0	4	S
LTX242	LTX242:1:23419178:C	8	1	23419178	C	G	0.999528504	0	46660	0	0	4	S
LTX249	LTX249:2:27746222:T	7	2	27746222	T	A	0.999760008	4.79983E-05	20834	1	0	4	C
LTX249	LTX249:10:50955213:C	7	10	50955213	C	A	0.999049065	3.33661E-05	59941	2	0	4	C
LTX249	LTX249:11:20648293:G	7	11	20648293	G	T	0.99939962	0	29981	0	0	4	C
LTX249	LTX249:18:29867943:T	7	18	29867943	T	A	0.999895726	2.97925E-05	67131	2	0	4	C
LTX249	LTX249:9:18770718:G	7	9	18770718	G	T	0.999490304	6.9504E-05	43163	3	0	4	C
LTX249	LTX249:13:20635239:A	7	13	20635239	A	C	0.999808937	0	41871	0	0	2	C
LTX249	LTX249:8:10469860:G	7	8	10469860	G	T	0.999632426	2.82749E-05	35367	1	0	4	C
LTX249	LTX249:20:3674958:C	7	20	3674958	C	A	0.99935765	0.000111713	35806	4	0	4	C

LTX249	LTX249:8:105001541:T	7	8	105001541	T	A	0.999729855	3.85922E-05	25912	1	0	4	C
LTX249	LTX249:1:171621722:G	7	1	171621722	G	C	0.99954469	3.50238E-05	28552	1	0	4	C
LTX249	LTX249:18:56205356:G	7	18	56205356	G	T	0.999623231	0	37158	0	0	4	C
LTX249	LTX249:6:123786083:G	7	6	123786083	G	T	0.999614198	8.38701E-05	59616	5	0	4	C
LTX249	LTX249:16:3789589:G	7	16	3789589	G	A	0.999719233	0.000224614	53425	12	0	2	C
LTX249	LTX249:12:76791654:C	7	12	76791654	C	G	0.999619681	2.00168E-05	49958	1	0	4	C
LTX249	LTX249:17:18029731:T	7	17	18029731	T	A	0.999521695	0.000273317	43905	12	0	4	C
LTX249	LTX249:1:177250070:G	7	1	177250070	G	T	0.999435907	3.89029E-05	51410	2	0	4	C
LTX249	LTX249:12:51054045:C	7	12	51054045	C	G	0.999436571	0	46146	0	0	4	C
LTX249	LTX249:11:36596299:G	7	11	36596299	G	T	0.999680844	2.1277E-05	46999	1	0	4	C
LTX249	LTX249:1:247615046:G	7	1	247615046	G	A	0.999478539	0.000467517	55613	26	0	4	S
LTX249	LTX249:17:7578508:C	7	17	7578508	C	T	0.999711919	0.000288081	27770	8	0	1A	S
LTX249	LTX249:5:110818572:T	7	5	110818572	T	A	0.99988561	2.28781E-05	43710	1	0	4	S
LTX250	LTX250:1:227073312:A	10	1	227073312	A	T	0.99019305	0.00972973	12950	126	1	4	C
LTX250	LTX250:9:119033608:C	10	9	119033608	C	G	0.98990171	0.009694358	66843	648	1	4	C
LTX250	LTX250:21:41452208:G	10	21	41452208	G	T	0.992331988	0.007299526	56990	416	1	4	C
LTX250	LTX250:9:14819293:C	10	9	14819293	C	A	0.994866732	0.004705495	30390	143	1	4	C
LTX250	LTX250:9:96323411:C	10	9	96323411	C	G	0.996171161	0.003271917	43094	141	1	4	C
LTX250	LTX250:2:178098810:C	10	2	178098810	C	T	0.996480899	0.003474835	45182	157	1	1A	C
LTX250	LTX250:12:6702623:C	10	12	6702623	C	T	0.997900068	0.002099932	16191	34	1	2	C
LTX250	LTX250:8:28210743:C	10	8	28210743	C	G	0.998204044	0.001622154	17261	28	1	4	C
LTX250	LTX250:12:104025445:C	10	12	104025445	C	G	0.996934396	0.002485625	60347	150	1	4	C
LTX250	LTX250:1:114976270:C	10	1	114976270	C	T	0.996786549	0.003148533	30808	97	1	2	C
LTX250	LTX250:22:50752913:C	10	22	50752913	C	A	0.996922186	0.003005395	27617	83	1	4	C
LTX250	LTX250:6:168363135:G	10	6	168363135	G	T	0.997453194	0.002340308	14528	34	1	2	C
LTX250	LTX250:9:128678017:G	10	9	128678017	G	C	0.997444441	0.002070326	61826	128	1	4	S
LTX250	LTX250:8:103297964:C	10	8	103297964	C	T	0.999035788	0.000964212	44596	43	0	1	S
LTX250	LTX250:1:10328233:A	10	1	10328233	A	T	0.99984277	0	69961	0	0	4	S
LTX250	LTX250:19:47425110:G	10	19	47425110	G	C	0.999505997	7.90404E-05	50607	4	0	2	S

LTX250	LTX250:12:57118296:C	10	12	57118296	C	T	0.999586313	0.000384138	33842	13	0	2	S
LTX250	LTX250:19:47425531:G	10	19	47425531	G	A	0.999465436	0.000478294	35543	17	0	2	S
LTX250	LTX250:20:51870456:G	10	20	51870456	G	C	0.999313904	0.000417624	67046	28	1	4	S
LTX251	LTX251:19:12817525:C	7	19	12817525	C	A	0.997077059	0.001948627	11290	22	1	4	C
LTX251	LTX251:17:7577082:C	7	17	7577082	C	A	0.999873928	0	23796	0	0	1A	C
LTX251	LTX251:19:54760176:G	7	19	54760176	G	T	0.998992756	0.000750075	46662	35	1	4	C
LTX251	LTX251:7:55259515:T	7	7	55259515	T	G	0.99944005	0.000314972	28574	9	1	1A	C
LTX251	LTX251:3:69813032:G	7	3	69813032	G	T	0.999715594	0	35161	0	0	2	C
LTX251	LTX251:6:158850928:A	7	6	158850928	A	T	0.999518304	6.42261E-05	31140	2	0	4	C
LTX251	LTX251:1:97547995:C	7	1	97547995	C	G	0.999289802	0.000522204	47874	25	1	4	C
LTX251	LTX251:1:99753592:C	7	1	99753592	C	A	0.998615934	0.000971275	41183	40	1	4	C
LTX251	LTX251:5:174868798:G	7	5	174868798	G	C	0.999764107	0	59349	0	0	4	C
LTX251	LTX251:3:44975414:C	7	3	44975414	C	G	0.999688772	0	38557	0	0	4	C
LTX251	LTX251:16:24580321:A	7	16	24580321	A	T	0.999496075	0.000344791	37704	13	1	NA	C
LTX251	LTX251:7:95665039:G	7	7	95665039	G	C	0.999108303	0.000636926	39251	25	1	4	C
LTX251	LTX251:17:76071234:A	7	17	76071234	A	T	0.999124803	0.000175039	5713	1	0	4	C
LTX251	LTX251:15:89424894:C	7	15	89424894	C	G	1	0	2564	0	0	4	S
LTX251	LTX251:11:110450272:A	7	11	110450272	A	T	0.99973172	8.94268E-05	33547	3	0	4	S
LTX251	LTX251:19:42794685:C	7	19	42794685	C	T	0.999559937	0.000440063	11362	5	0	1	S
LTX251	LTX251:17:11726168:T	7	17	11726168	T	G	0.999610165	0	53869	0	0	4	S
LTX251	LTX251:20:31608191:T	7	20	31608191	T	A	0.999761726	6.80782E-05	29378	2	0	4	S
LTX252	LTX252:12:18243048:C	9	12	18243048	C	A	0.999625565	5.76053E-05	69438	4	0	4	C
LTX252	LTX252:12:48380209:C	9	12	48380209	C	A	0.999813171	0	10705	0	0	1	C
LTX252	LTX252:1:43805193:A	9	1	43805193	A	T	0.999714197	7.14507E-05	41987	3	0	3	C
LTX252	LTX252:11:36615266:A	9	11	36615266	A	T	0.999891352	0	27612	0	0	4	C
LTX252	LTX252:7:111395595:C	9	7	111395595	C	G	0.99981124	1.716E-05	58275	1	0	4	C
LTX252	LTX252:7:92247484:C	9	7	92247484	C	A	0.999738699	0	72713	0	0	2	C
LTX252	LTX252:14:95597932:C	9	14	95597932	C	A	0.999648614	2.19616E-05	45534	1	0	1	C
LTX252	LTX252:11:116633520:T	9	11	116633520	T	A	0.99942830 7	1.54512E-05	64720	1	0	4	C

LTX252	LTX252:4:55561808:G	9	4	55561808	G	T	0.999715893	1.89405E-05	52797	1	0	2	C
LTX252	LTX252:10:8106040:G	9	10	8106040	G	T	0.999688846	4.78698E-05	41780	2	0	1	C
LTX252	LTX252:5:153175143:G	9	5	153175143	G	T	0.999758175	0	57893	0	0	4	C
LTX252	LTX252:6:116574258:T	9	6	116574258	T	A	0.999907606	1.84788E-05	54116	1	0	4	C
LTX252	LTX252:19:58850105:G	9	19	58850105	G	T	0.999186391	0.000443787	27040	12	1	4	C
LTX252	LTX252:4:55129865:G	9	4	55129865	G	T	0.999511885	8.48896E-05	47120	4	0	2	C
LTX252	LTX252:22:26388344:G	9	22	26388344	G	T	0.999634382	5.22311E-05	57437	3	0	4	C
LTX252	LTX252:17:7578469:C	9	17	7578469	C	A	0.999477158	6.53552E-05	15301	1	0	1A	C
LTX252	LTX252:16:9857510:G	9	16	9857510	G	T	0.999633542	0	46390	0	0	2	C
LTX252	LTX252:12:43840457:C	9	12	43840457	C	A	0.999743846	0	74174	0	0	4	C
LTX252	LTX252:7:75186999:C	9	7	75186999	C	A	0.999647584	3.91573E-05	25538	1	0	2	C

Table 4B

SampleName	mutationId	SampleType	Pool	Chr	Pos	Ref	Mut	RefVAF	MutVAF	DOR	MutDOR	CALL
LTX013_101602	LTX013:5:15937258:G	Longitudinal	11	5	15937258	G	A	0.9996185	0.0003614	49806	18	0
LTX013_101602	LTX013:3:183994479:T	Longitudinal	11	3	183994479	T	C	0.9996311	0.0002898	37954	11	0
LTX013_101602	LTX013:15:48722904:C	Longitudinal	11	15	48722904	C	T	0.9993855	0.0005307	71606	38	0
LTX013_101602	LTX013:10:105147056:C	Longitudinal	11	10	105147056	C	T	0.9987694	0.0011401	55257	63	0
LTX013_101602	LTX013:3:19384197:A	Longitudinal	11	3	19384197	A	T	0.9996475	0	42554	0	0
LTX013_101602	LTX013:8:38205421:T	Longitudinal	11	8	38205421	T	A	0.9997223	5.951E-05	50415	3	0
LTX013_101602	LTX013:7:97911732:C	Longitudinal	11	7	97911732	C	G	0.9996343	0	24611	0	0
LTX013_101602	LTX013:22:33733721:G	Longitudinal	11	22	33733721	G	C	0.9998135	0	48260	0	0
LTX013_101602	LTX013:6:127768763:T	Longitudinal	11	6	127768763	T	A	0.9996796	0.0002136	37458	8	0
LTX013_101602	LTX013:3:17109481:G	Longitudinal	11	3	17109481	G	A	0.9996221	0.0003419	55577	19	0
LTX013_101602	LTX013:1:158724752:C	Longitudinal	11	1	158724752	C	G	0.9997681	0	43125	0	0
LTX013_101602	LTX013:17:18154751:C	Longitudinal	11	17	18154751	C	T	0.9998016	0.0001984	10081	2	0
LTX013_101602	LTX013:2:158617532:C	Longitudinal	11	2	158617532	C	T	0.9991523	0.0008477	62525	53	0
LTX013_101602	LTX013:9:131707989:G	Longitudinal	11	9	131707989	G	C	0.999763	1.481E-05	67508	1	0
LTX013_101602	LTX013:16:29706404:C	Longitudinal	11	16	29706404	C	T	1	0	2073	0	0
LTX013_101602	LTX013:2:228771939:G	Longitudinal	11	2	228771939	G	C	0.9995595	4.196E-05	47668	2	0
LTX013_101602	LTX013:9:19786223:G	Longitudinal	11	9	19786223	G	T	0.9997514	0	52299	0	0
LTX013_101602	LTX013:14:31592236:G	Longitudinal	11	14	31592236	G	A	0.999426	0.0005194	36583	19	0
LTX013_101602	LTX013:11:55861287:C	Longitudinal	11	11	55861287	C	A	0.9995548	0	47166	0	0
LTX013_101602	LTX013:9:133730371:A	Longitudinal	11	9	133730371	A	G	0.9997756	0.000204	49020	10	0
LTX013_101602	LTX013:12:62946929:C	Longitudinal	11	12	62946929	C	T	0.9996315	0.0002818	46139	13	0
LTX013_101602	LTX013:7:81689802:G	Longitudinal	11	7	81689802	G	T	0.9997675	2.113E-05	47320	1	0
LTX013_101602	LTX013:17:58147166:G	Longitudinal	11	17	58147166	G	T	0.9996409	5.525E-05	36197	2	0
LTX013_101602	LTX013:14:74988688:C	Longitudinal	11	14	74988688	C	T	0.9994614	0.0005049	59415	30	0
LTX013_101602	LTX013:2:152403968:C	Longitudinal	11	2	152403968	C	T	0.9994089	0.0005747	60903	35	0
LTX013_101602	LTX013:6:50791266:G	Longitudinal	11	6	50791266	G	T	1	0	2533	0	0
LTX013_101602	LTX013:X:114141751:C	Longitudinal	11	23	114141751	C	T	0.9996626	0.0003374	26675	9	0
LTX013_101602	LTX013:X:117044028:C	Longitudinal	11	23	117044028	C	T	0.999635	0.0003245	24657	8	0
LTX013_101602	LTX013:X:150348926:G	Longitudinal	11	23	150348926	G	A	0.9994837	0.0004795	27114	13	0
LTX028_108043	LTX028:16:11000781:G	Longitudinal	11	16	11000781	G	A	0.9994816	0.00048	52088	25	0
LTX028_108043	LTX028:18:22804610:C	Longitudinal	11	18	22804610	C	G	0.9997759	0	62462	0	0
LTX028_108043	LTX028:1:238053905:C	Longitudinal	11	1	238053905	C	G	0.9998197	0	77630	0	0
LTX028_108043	LTX028:16:27454289:C	Longitudinal	11	16	27454289	C	A	0.9994564	8.814E-05	68071	6	0
LTX028_108043	LTX028:6:117638319:G	Longitudinal	11	6	117638319	G	A	0.9996017	0.0003817	60253	23	0
LTX028_108043	LTX028:19:56896362:T	Longitudinal	11	19	56896362	T	A	0.9996949	6.78E-05	58999	4	0
LTX028_108043	LTX028:19:38942485:A	Longitudinal	11	19	38942485	A	C	0.9998048	0	46109	0	0

LTX028_108043	LTX028:16:55705930:C	Longitudinal	11	16	55705930	C	G	0.9997977	2.023E-05	49441	1	0
LTX028_108043	LTX028:10:22016857:G	Longitudinal	11	10	22016857	G	T	0.9995868	0	67761	0	0
LTX028_108043	LTX028:1:153658292:A	Longitudinal	11	1	153658292	A	T	0.9998701	3.896E-05	77010	3	0
LTX028_108043	LTX028:10:12139797:C	Longitudinal	11	10	12139797	C	G	0.9997387	1.537E-05	65065	1	0
LTX028_108043	LTX028:11:5969433:T	Longitudinal	11	11	5969433	T	G	0.9995488	1.157E-05	86442	1	0
LTX028_108043	LTX028:6:170592441:G	Longitudinal	11	6	170592441	G	T	0.9996459	1.864E-05	53650	1	0
LTX028_108043	LTX028:1:43904447:A	Longitudinal	11	1	43904447	A	C	0.9998382	0	61801	0	0
LTX028_108043	LTX028:6:27879686:G	Longitudinal	11	6	27879686	G	C	0.9997322	1.164E-05	85893	1	0
LTX028_108043	LTX028:18:21957404:C	Longitudinal	11	18	21957404	C	A	0.9993846	0	60122	0	0
LTX028_108043	LTX028:1:237817673:A	Longitudinal	11	1	237817673	A	T	0.9997313	1.58E-05	63276	1	0
LTX028_108043	LTX028:10:21823709:G	Longitudinal	11	10	21823709	G	T	1	0	4208	0	0
LTX028_108043	LTX028:18:10696430:A	Longitudinal	11	18	10696430	A	T	0.9993558	9.662E-05	62097	6	0
LTX028_121164	LTX028:16:11000781:G	Longitudinal	11	16	11000781	G	A	0.9996985	0.0003015	43111	13	0
LTX028_121164	LTX028:18:22804610:C	Longitudinal	11	18	22804610	C	G	0.9997349	0	56591	0	0
LTX028_121164	LTX028:1:238053905:C	Longitudinal	11	1	238053905	C	G	0.9995101	0	65313	0	0
LTX028_121164	LTX028:16:27454289:C	Longitudinal	11	16	27454289	C	A	0.9997286	5.089E-05	58954	3	0
LTX028_121164	LTX028:6:117638319:G	Longitudinal	11	6	117638319	G	A	0.9997582	0.0002232	53754	12	0
LTX028_121164	LTX028:19:56896362:T	Longitudinal	11	19	56896362	T	A	0.9998321	7.462E-05	53604	4	0
LTX028_121164	LTX028:19:38942485:A	Longitudinal	11	19	38942485	A	C	0.9999217	0	38336	0	0
LTX028_121164	LTX028:16:55705930:C	Longitudinal	11	16	55705930	C	G	0.9997727	0	39597	0	0
LTX028_121164	LTX028:10:22016857:G	Longitudinal	11	10	22016857	G	T	0.9996565	0	61134	0	0
LTX028_121164	LTX028:1:153658292:A	Longitudinal	11	1	153658292	A	T	0.9997382	0	64926	0	0
LTX028_121164	LTX028:10:12139797:C	Longitudinal	11	10	12139797	C	G	0.9998284	0	58282	0	0
LTX028_121164	LTX028:11:5969433:T	Longitudinal	11	11	5969433	T	G	0.9993315	3.933E-05	76285	3	0
LTX028_121164	LTX028:6:170592441:G	Longitudinal	11	6	170592441	G	T	0.9996356	2.278E-05	43907	1	0
LTX028_121164	LTX028:1:43904447:A	Longitudinal	11	1	43904447	A	C	0.9999001	0	50034	0	0
LTX028_121164	LTX028:6:27879686:G	Longitudinal	11	6	27879686	G	C	0.9997103	1.317E-05	75948	1	0
LTX028_121164	LTX028:18:21957404:C	Longitudinal	11	18	21957404	C	A	0.9996951	1.793E-05	55757	1	0
LTX028_121164	LTX028:1:237817673:A	Longitudinal	11	1	237817673	A	T	0.9996604	1.698E-05	58896	1	0
LTX028_121164	LTX028:10:21823709:G	Longitudinal	11	10	21823709	G	T	0.9988338	0	3430	0	0
LTX028_121164	LTX028:18:10696430:A	Longitudinal	11	18	10696430	A	T	0.9994705	9.806E-05	50990	5	0
LTX060_103137-PLA1	LTX060:13:46917549:G	Longitudinal	11	13	46917549	G	C	0.9998429	0	44551	0	0
LTX060_103137-PLA1	LTX060:4:187557791:C	Longitudinal	11	4	187557791	C	A	0.9994972	4.372E-05	45747	2	0
LTX060_103137-PLA1	LTX060:19:9065338:G	Longitudinal	11	19	9065338	G	C	0.9996671	0	48061	0	0
LTX060_103137-PLA1	LTX060:17:37565172:G	Longitudinal	11	17	37565172	G	C	0.9997166	7.73E-05	38810	3	0

LTX060_103137-PLA1	LTX060:4:1952890:C	Longitudinal	11	4	1952890	C	G	0.9997861	0	42079	0	0
LTX060_103137-PLA1	LTX060:16:2224312:G	Longitudinal	11	16	2224312	G	T	0.9995093	2.887E-05	34642	1	0
LTX060_103137-PLA1	LTX060:1:2431112:G	Longitudinal	11	1	2431112	G	C	0.9997411	0	38632	0	0
LTX060_103137-PLA1	LTX060:6:145157042:G	Longitudinal	11	6	145157042	G	C	0.9996482	0	48323	0	0
LTX060_103137-PLA1	LTX060:20:16348162:G	Longitudinal	11	20	16348162	G	C	0.9997658	1.464E-05	68313	1	0
LTX060_103137-PLA1	LTX060:17:20156881:C	Longitudinal	11	17	20156881	C	A	0.9997785	0	45139	0	0
LTX060_103137-PLA1	LTX060:15:34649385:C	Longitudinal	11	15	34649385	C	T	0.9992666	0.0007334	38177	28	0
LTX060_103137-PLA1	LTX060:21:36265236:G	Longitudinal	11	21	36265236	G	C	0.9998672	2.214E-05	45172	1	0
LTX060_103137-PLA1	LTX060:3:101504494:G	Longitudinal	11	3	101504494	G	T	0.9994399	0	44633	0	0
LTX060_103137-PLA1	LTX060:3:105452857:C	Longitudinal	11	3	105452857	C	A	0.9954054	0.0001482	6747	1	0
LTX060_103137-PLA1	LTX060:2:29541185:C	Longitudinal	11	2	29541185	C	G	0.9998192	0	38720	0	0
LTX060_103137-PLA1	LTX060:17:47677801:G	Longitudinal	11	17	47677801	G	C	0.9996599	0	44099	0	0
LTX060_103137-PLA1	LTX060:1:155735084:G	Longitudinal	11	1	155735084	G	T	0.9998613	0	43271	0	0
LTX060_103137-PLA1	LTX060:17:48918125:G	Longitudinal	11	17	48918125	G	C	0.9995462	3.781E-05	26445	1	0
LTX060_103137-PLA1	LTX060:3:59999825:C	Longitudinal	11	3	59999825	C	G	0.9995925	0	53989	0	0
LTX060_103137-PLA1	LTX060:3:155615774:G	Longitudinal	11	3	155615774	G	C	0.9997415	1.988E-05	50292	1	0
LTX060_103137-PLA1	LTX060:22:31741348:C	Longitudinal	11	22	31741348	C	T	1	0	2062	0	0
LTX060_103137-PLA1	LTX060:12:394744:C	Longitudinal	11	12	394744	C	T	0.9997054	0.0002719	44135	12	0
LTX060_103137-PLA1	LTX060:6:157522016:G	Longitudinal	11	6	157522016	G	C	0.9997961	5.098E-05	19617	1	0
LTX060_103137-PLA1	LTX060:3:12633227:C	Longitudinal	11	3	12633227	C	G	0.9997829	0	46062	0	0
LTX060_103137-PLA1	LTX060:16:9857250:G	Longitudinal	11	16	9857250	G	C	0.9996008	1.664E-05	60113	1	0
LTX060_103137-PLA1	LTX060:16:50741841:T	Longitudinal	11	16	50741841	T	A	0.9998928	0	55958	0	0
LTX060_103137-PLA1	LTX060:20:31021451:G	Longitudinal	11	20	31021451	G	T	0.9996061	2.317E-05	43160	1	0

LTX060_103113-PLA1	LTX060:13:46917549:G	Longitudinal	11	13	46917549	G	C	0.999726	0	51100	0	0
LTX060_103113-PLA1	LTX060:4:187557791:C	Longitudinal	11	4	187557791	C	A	0.9997508	1.917E-05	52169	1	0
LTX060_103113-PLA1	LTX060:19:9065338:G	Longitudinal	11	19	9065338	G	C	0.9997067	0	54546	0	0
LTX060_103113-PLA1	LTX060:17:37565172:G	Longitudinal	11	17	37565172	G	C	0.9996679	2.214E-05	45166	1	0
LTX060_103113-PLA1	LTX060:4:1952890:C	Longitudinal	11	4	1952890	C	G	0.9995598	0	45432	0	0
LTX060_103113-PLA1	LTX060:16:2224312:G	Longitudinal	11	16	2224312	G	T	0.9996815	0	37681	0	0
LTX060_103113-PLA1	LTX060:1:2431112:G	Longitudinal	11	1	2431112	G	C	0.9998482	0	39529	0	0
LTX060_103113-PLA1	LTX060:6:145157042:G	Longitudinal	11	6	145157042	G	C	0.9997588	1.856E-05	53892	1	0
LTX060_103113-PLA1	LTX060:20:16348162:G	Longitudinal	11	20	16348162	G	C	0.9997376	0	80029	0	0
LTX060_103113-PLA1	LTX060:17:20156881:C	Longitudinal	11	17	20156881	C	A	0.9995891	1.957E-05	51108	1	0
LTX060_103113-PLA1	LTX060:15:34649385:C	Longitudinal	11	15	34649385	C	T	0.9997528	0.0002022	44504	9	0
LTX060_103113-PLA1	LTX060:21:36265236:G	Longitudinal	11	21	36265236	G	C	0.9998258	0	51670	0	0
LTX060_103113-PLA1	LTX060:3:101504494:G	Longitudinal	11	3	101504494	G	T	0.9996091	0	51164	0	0
LTX060_103113-PLA1	LTX060:3:105452857:C	Longitudinal	11	3	105452857	C	A	0.9948372	0	6973	0	0
LTX060_103113-PLA1	LTX060:2:29541185:C	Longitudinal	11	2	29541185	C	G	0.9996065	0	40660	0	0
LTX060_103113-PLA1	LTX060:17:47677801:G	Longitudinal	11	17	47677801	G	C	0.9996918	0	51915	0	0
LTX060_103113-PLA1	LTX060:1:155735084:G	Longitudinal	11	1	155735084	G	T	0.9996465	0	48090	0	0
LTX060_103113-PLA1	LTX060:17:48918125:G	Longitudinal	11	17	48918125	G	C	0.9997115	0	27725	0	0
LTX060_103113-PLA1	LTX060:3:59999825:C	Longitudinal	11	3	59999825	C	G	0.9994837	0	61979	0	0
LTX060_103113-PLA1	LTX060:3:155615774:G	Longitudinal	11	3	155615774	G	C	0.999511	0	55219	0	0
LTX060_103113-PLA1	LTX060:22:31741348:C	Longitudinal	11	22	31741348	C	T	0.9995455	0.0004545	2200	1	0
LTX060_103113-PLA1	LTX060:12:394744:C	Longitudinal	11	12	394744	C	T	0.9997827	0.000158	50630	8	0
LTX060_103113-PLA1	LTX060:6:157522016:G	Longitudinal	11	6	157522016	G	C	0.9997764	0	22363	0	0

LTX060_103113-PLA1	LTX060:3:12633227:C	Longitudinal	11	3	12633227	C	G	0.9997871	0	51671	0	0
LTX060_103113-PLA1	LTX060:16:9857250:G	Longitudinal	11	16	9857250	G	C	0.9994335	0	67083	0	0
LTX060_103113-PLA1	LTX060:16:50741841:T	Longitudinal	11	16	50741841	T	A	0.999807	3.217E-05	62174	2	0
LTX060_103113-PLA1	LTX060:20:31021451:G	Longitudinal	11	20	31021451	G	T	0.9997838	4.325E-05	46248	2	0
LTX060_103136-PLA1	LTX060:13:46917549:G	Longitudinal	11	13	46917549	G	C	0.9997441	4.266E-05	46886	2	0
LTX060_103136-PLA1	LTX060:4:187557791:C	Longitudinal	11	4	187557791	C	A	0.9997782	0	49595	0	0
LTX060_103136-PLA1	LTX060:19:9065338:G	Longitudinal	11	19	9065338	G	C	0.9998378	0	49329	0	0
LTX060_103136-PLA1	LTX060:17:37565172:G	Longitudinal	11	17	37565172	G	C	0.9997482	0	39709	0	0
LTX060_103136-PLA1	LTX060:4:1952890:C	Longitudinal	11	4	1952890	C	G	0.9997184	2.347E-05	42616	1	0
LTX060_103136-PLA1	LTX060:16:2224312:G	Longitudinal	11	16	2224312	G	T	0.9996683	5.529E-05	36174	2	0
LTX060_103136-PLA1	LTX060:1:2431112:G	Longitudinal	11	1	2431112	G	C	0.9996473	0	36860	0	0
LTX060_103136-PLA1	LTX060:6:145157042:G	Longitudinal	11	6	145157042	G	C	0.9997302	0	48175	0	0
LTX060_103136-PLA1	LTX060:20:16348162:G	Longitudinal	11	20	16348162	G	C	0.9996635	2.692E-05	74285	2	0
LTX060_103136-PLA1	LTX060:17:20156881:C	Longitudinal	11	17	20156881	C	A	0.9997117	2.059E-05	48556	1	0
LTX060_103136-PLA1	LTX060:15:34649385:C	Longitudinal	11	15	34649385	C	T	0.9996818	0.0002937	40859	12	0
LTX060_103136-PLA1	LTX060:21:36265236:G	Longitudinal	11	21	36265236	G	C	0.9995598	0	47703	0	0
LTX060_103136-PLA1	LTX060:3:101504494:G	Longitudinal	11	3	101504494	G	T	0.9993959	2.237E-05	44696	1	0
LTX060_103136-PLA1	LTX060:3:105452857:C	Longitudinal	11	3	105452857	C	A	0.9962982	0.0001683	5943	1	0
LTX060_103136-PLA1	LTX060:2:29541185:C	Longitudinal	11	2	29541185	C	G	0.999726	0	36497	0	0
LTX060_103136-PLA1	LTX060:17:47677801:G	Longitudinal	11	17	47677801	G	C	0.9996081	0	45931	0	0
LTX060_103136-PLA1	LTX060:1:155735084:G	Longitudinal	11	1	155735084	G	T	0.9995952	2.249E-05	44463	1	0
LTX060_103136-PLA1	LTX060:17:48918125:G	Longitudinal	11	17	48918125	G	C	0.99959	3.728E-05	26826	1	0
LTX060_103136-PLA1	LTX060:3:59999825:C	Longitudinal	11	3	59999825	C	G	0.9997147	1.783E-05	56076	1	0

LTX060_103136-PLA1	LTX060:3:155615774:G	Longitudinal	11	3	155615774	G	C	0.999593	0	49140	0	0
LTX060_103136-PLA1	LTX060:22:31741348:C	Longitudinal	11	22	31741348	C	T	0.9982736	0.0008632	2317	2	0
LTX060_103136-PLA1	LTX060:12:394744:C	Longitudinal	11	12	394744	C	T	0.9995444	0.0004101	43896	18	0
LTX060_103136-PLA1	LTX060:6:157522016:G	Longitudinal	11	6	157522016	G	C	0.9995107	0	20438	0	0
LTX060_103136-PLA1	LTX060:3:12633227:C	Longitudinal	11	3	12633227	C	G	0.9996569	2.145E-05	46630	1	0
LTX060_103136-PLA1	LTX060:16:9857250:G	Longitudinal	11	16	9857250	G	C	0.999142	0	61770	0	0
LTX060_103136-PLA1	LTX060:16:50741841:T	Longitudinal	11	16	50741841	T	A	0.999833	0.0001002	59875	6	0
LTX060_103136-PLA1	LTX060:20:31021451:G	Longitudinal	11	20	31021451	G	T	0.9998664	0	44904	0	0
LTX060_103129-PLA1	LTX060:13:46917549:G	Longitudinal	11	13	46917549	G	C	0.9997231	3.461E-05	57781	2	0
LTX060_103129-PLA1	LTX060:4:187557791:C	Longitudinal	11	4	187557791	C	A	0.9996525	1.737E-05	57560	1	0
LTX060_103129-PLA1	LTX060:19:9065338:G	Longitudinal	11	19	9065338	G	C	0.9997102	0	58658	0	0
LTX060_103129-PLA1	LTX060:17:37565172:G	Longitudinal	11	17	37565172	G	C	0.9995859	2.071E-05	48294	1	0
LTX060_103129-PLA1	LTX060:4:1952890:C	Longitudinal	11	4	1952890	C	G	0.9997846	0	51070	0	0
LTX060_103129-PLA1	LTX060:16:2224312:G	Longitudinal	11	16	2224312	G	T	0.9994914	2.422E-05	41288	1	0
LTX060_103129-PLA1	LTX060:1:2431112:G	Longitudinal	11	1	2431112	G	C	0.9995879	0	43681	0	0
LTX060_103129-PLA1	LTX060:6:145157042:G	Longitudinal	11	6	145157042	G	C	0.9997458	1.816E-05	55071	1	0
LTX060_103129-PLA1	LTX060:20:16348162:G	Longitudinal	11	20	16348162	G	C	0.9997643	2.357E-05	84852	2	0
LTX060_103129-PLA1	LTX060:17:20156881:C	Longitudinal	11	17	20156881	C	A	0.9997497	3.576E-05	55926	2	0
LTX060_103129-PLA1	LTX060:15:34649385:C	Longitudinal	11	15	34649385	C	T	0.9997077	0.0002923	47896	14	0
LTX060_103129-PLA1	LTX060:21:36265236:G	Longitudinal	11	21	36265236	G	C	0.9996196	2.002E-05	49945	1	0
LTX060_103129-PLA1	LTX060:3:101504494:G	Longitudinal	11	3	101504494	G	T	0.9993425	5.636E-05	53231	3	0
LTX060_103129-PLA1	LTX060:3:105452857:C	Longitudinal	11	3	105452857	C	A	0.9969136	0.0002806	7128	2	0
LTX060_103129-PLA1	LTX060:2:29541185:C	Longitudinal	11	2	29541185	C	G	0.9996216	0	42280	0	0

LTX060_103129-PLA1	LTX060:17:47677801:G	Longitudinal	11	17	47677801	G	C	0.9997335	0	56289	0	0
LTX060_103129-PLA1	LTX060:1:155735084:G	Longitudinal	11	1	155735084	G	T	0.9998164	0	54474	0	0
LTX060_103129-PLA1	LTX060:17:48918125:G	Longitudinal	11	17	48918125	G	C	0.9997121	0	31265	0	0
LTX060_103129-PLA1	LTX060:3:59999825:C	Longitudinal	11	3	59999825	C	G	0.9996953	0	65628	0	0
LTX060_103129-PLA1	LTX060:3:155615774:G	Longitudinal	11	3	155615774	G	C	0.9997533	0	56740	0	0
LTX060_103129-PLA1	LTX060:22:31741348:C	Longitudinal	11	22	31741348	C	T	0.9996321	0.0003679	2718	1	0
LTX060_103129-PLA1	LTX060:12:394744:C	Longitudinal	11	12	394744	C	T	0.9993385	0.0006615	49883	33	0
LTX060_103129-PLA1	LTX060:6:157522016:G	Longitudinal	11	6	157522016	G	C	0.9997621	0	25224	0	0
LTX060_103129-PLA1	LTX060:3:12633227:C	Longitudinal	11	3	12633227	C	G	0.9997322	0	56020	0	0
LTX060_103129-PLA1	LTX060:16:9857250:G	Longitudinal	11	16	9857250	G	C	0.9997069	1.396E-05	71653	1	0
LTX060_103129-PLA1	LTX060:16:50741841:T	Longitudinal	11	16	50741841	T	A	0.9998129	4.677E-05	64141	3	0
LTX060_103129-PLA1	LTX060:20:31021451:G	Longitudinal	11	20	31021451	G	T	0.9996105	1.855E-05	53919	1	0
LTX063_101769	LTX063:9:135982591:C	Longitudinal	11	9	135982591	C	A	0.9534171	0.0458906	20222	928	1
LTX063_101769	LTX063:3:57430962:G	Longitudinal	11	3	57430962	G	A	0.979257	0.0207247	54669	1133	1
LTX063_101769	LTX063:2:73302776:C	Longitudinal	11	2	73302776	C	A	0.9922635	0.0075155	9048	68	1
LTX063_101769	LTX063:12:125298872:C	Longitudinal	11	12	125298872	C	A	0.9827881	0.0168262	41483	698	1
LTX063_101769	LTX063:7:31144522:A	Longitudinal	11	7	31144522	A	C	0.9779442	0.0215319	59168	1274	1
LTX063_101769	LTX063:16:65016009:C	Longitudinal	11	16	65016009	C	G	0.9901805	0.0092572	49799	461	1
LTX063_101769	LTX063:11:32449506:T	Longitudinal	11	11	32449506	T	A	0.9766209	0.0231381	4149	96	1
LTX063_101769	LTX063:15:74326870:C	Longitudinal	11	15	74326870	C	T	0.9996886	0.0002725	25690	7	0
LTX063_101769	LTX063:7:50450378:C	Longitudinal	11	7	50450378	C	G	0.999293	0.0003535	19803	7	1
LTX063_101769	LTX063:10:70332109:G	Longitudinal	11	10	70332109	G	A	0.9981677	0.0018323	55121	101	1
LTX063_101769	LTX063:19:15511627:G	Longitudinal	11	19	15511627	G	T	0.997624	0.0019886	38721	77	1
LTX063_101769	LTX063:16:15811171:C	Longitudinal	11	16	15811171	C	T	0.9993809	0.0004953	8076	4	0
LTX063_101769	LTX063:6:26508774:T	Longitudinal	11	6	26508774	T	A	0.9997485	0	47706	0	0
LTX063_101769	LTX063:8:144812392:C	Longitudinal	11	8	144812392	C	T	0.9995615	0.0002193	4561	1	0
LTX063_101769	LTX063:7:49815709:G	Longitudinal	11	7	49815709	G	C	0.9946117	0.0051302	30993	159	1
LTX063_101769	LTX063:2:11770074:C	Longitudinal	11	2	11770074	C	A	0.9978394	0.0018704	62019	116	1
LTX063_101769	LTX063:17:7578263:G	Longitudinal	11	17	7578263	G	A	0.972273	0.027727	45371	1258	1
LTX063_101769	LTX063:10:50732500:C	Longitudinal	11	10	50732500	C	A	0.9839665	0.0157546	57380	904	1
LTX063_101769	LTX063:1:27102068:G	Longitudinal	11	1	27102068	G	T	0.9811222	0.0186774	49900	932	1

LTX063_101769	LTX063:10:108378016:C	Longitudinal	11	10	108378016	C	A	0.9845957	0.0150753	51674	779	1
LTX063_101843	LTX063:9:135982591:C	Longitudinal	11	9	135982591	C	A	0.9375577	0.0619679	40053	2482	1
LTX063_101843	LTX063:3:57430962:G	Longitudinal	11	3	57430962	G	A	0.9749092	0.0250285	64127	1605	1
LTX063_101843	LTX063:2:73302776:C	Longitudinal	11	2	73302776	C	A	0.9887318	0.0106606	18104	193	1
LTX063_101843	LTX063:12:125298872:C	Longitudinal	11	12	125298872	C	A	0.9754199	0.0243302	56021	1363	1
LTX063_101843	LTX063:7:31144522:A	Longitudinal	11	7	31144522	A	C	0.9664995	0.0331342	79163	2623	1
LTX063_101843	LTX063:16:65016009:C	Longitudinal	11	16	65016009	C	G	0.9870197	0.0127525	61478	784	1
LTX063_101843	LTX063:11:32449506:T	Longitudinal	11	11	32449506	T	A	0.9712987	0.0283425	8362	237	1
LTX063_101843	LTX063:15:74326870:C	Longitudinal	11	15	74326870	C	T	0.9996303	0.0003081	32459	10	0
LTX063_101843	LTX063:7:50450378:C	Longitudinal	11	7	50450378	C	G	0.9990769	0.0002019	34666	7	1
LTX063_101843	LTX063:10:70332109:G	Longitudinal	11	10	70332109	G	A	0.9990425	0.0009245	60572	56	0
LTX063_101843	LTX063:19:15511627:G	Longitudinal	11	19	15511627	G	T	0.9992845	0.00046	58699	27	1
LTX063_101843	LTX063:16:15811171:C	Longitudinal	11	16	15811171	C	T	0.9998024	0.0001976	15184	3	0
LTX063_101843	LTX063:6:26508774:T	Longitudinal	11	6	26508774	T	A	0.9997236	0	61513	0	0
LTX063_101843	LTX063:8:144812392:C	Longitudinal	11	8	144812392	C	T	1	0	7287	0	0
LTX063_101843	LTX063:7:49815709:G	Longitudinal	11	7	49815709	G	C	0.9927419	0.0070148	49324	346	1
LTX063_101843	LTX063:2:11770074:C	Longitudinal	11	2	11770074	C	A	0.9993021	0.0004332	83110	36	1
LTX063_101843	LTX063:17:7578263:G	Longitudinal	11	17	7578263	G	A	0.9671773	0.0328227	62670	2057	1
LTX063_101843	LTX063:10:50732500:C	Longitudinal	11	10	50732500	C	A	0.9785061	0.021186	74719	1583	1
LTX063_101843	LTX063:1:27102068:G	Longitudinal	11	1	27102068	G	T	0.975333	0.0244867	66526	1629	1
LTX063_101843	LTX063:10:108378016:C	Longitudinal	11	10	108378016	C	A	0.9792614	0.0203986	61769	1260	1
LTX063_101601	LTX063:9:135982591:C	Longitudinal	11	9	135982591	C	A	0.9988513	0.0008615	31339	27	1
LTX063_101601	LTX063:3:57430962:G	Longitudinal	11	3	57430962	G	A	0.9992278	0.0007722	62162	48	0
LTX063_101601	LTX063:2:73302776:C	Longitudinal	11	2	73302776	C	A	0.9993136	0.0002059	14569	3	0
LTX063_101601	LTX063:12:125298872:C	Longitudinal	11	12	125298872	C	A	0.9994127	0.0002741	51083	14	1
LTX063_101601	LTX063:7:31144522:A	Longitudinal	11	7	31144522	A	C	0.999381	0.0002954	71087	21	1
LTX063_101601	LTX063:16:65016009:C	Longitudinal	11	16	65016009	C	G	0.9995287	0.0001138	61532	7	0
LTX063_101601	LTX063:11:32449506:T	Longitudinal	11	11	32449506	T	A	0.9986962	0.0006519	7670	5	1
LTX063_101601	LTX063:15:74326870:C	Longitudinal	11	15	74326870	C	T	0.9995498	0.0004155	28879	12	0
LTX063_101601	LTX063:7:50450378:C	Longitudinal	11	7	50450378	C	G	0.9995161	0	28934	0	0
LTX063_101601	LTX063:10:70332109:G	Longitudinal	11	10	70332109	G	A	0.9995792	0.0004208	54664	23	0
LTX063_101601	LTX063:19:15511627:G	Longitudinal	11	19	15511627	G	T	0.9996273	0	50984	0	0
LTX063_101601	LTX063:16:15811171:C	Longitudinal	11	16	15811171	C	T	0.999691	0.0002318	12944	3	0
LTX063_101601	LTX063:6:26508774:T	Longitudinal	11	6	26508774	T	A	0.9997026	0	60528	0	0
LTX063_101601	LTX063:8:144812392:C	Longitudinal	11	8	144812392	C	T	0.9996628	0.0003372	5932	2	0
LTX063_101601	LTX063:7:49815709:G	Longitudinal	11	7	49815709	G	C	0.9998048	2.44E-05	40989	1	0
LTX063_101601	LTX063:2:11770074:C	Longitudinal	11	2	11770074	C	A	0.9997084	0	68576	0	0
LTX063_101601	LTX063:17:7578263:G	Longitudinal	11	17	7578263	G	A	0.9989657	0.0010168	57041	58	0

LTX063_101601	LTX063:10:50732500:C	Longitudinal	11	10	50732500	C	A	0.9993694	0.000352	68186	24	0
LTX063_101601	LTX063:1:27102068:G	Longitudinal	11	1	27102068	G	T	0.9993197	0.0004373	61742	27	0
LTX063_101601	LTX063:10:108378016:C	Longitudinal	11	10	108378016	C	A	0.9991817	0.0005728	61100	35	0
LTX103_105029	LTX103:10:96043655:G	Longitudinal	11	10	96043655	G	T	0.9995808	0	50091	0	0
LTX103_105029	LTX103:5:141329143:G	Longitudinal	11	5	141329143	G	T	0.9995551	3.707E-05	53950	2	0
LTX103_105029	LTX103:7:31378481:C	Longitudinal	11	7	31378481	C	G	0.9997125	0	59124	0	0
LTX103_105029	LTX103:1:248756505:A	Longitudinal	11	1	248756505	A	C	0.9996745	0	46089	0	0
LTX103_105029	LTX103:1:155263277:C	Longitudinal	11	1	155263277	C	G	0.9997653	2.933E-05	34093	1	0
LTX103_105029	LTX103:19:10220867:C	Longitudinal	11	19	10220867	C	T	0.9996997	0.0002402	16650	4	0
LTX103_105029	LTX103:19:34857281:C	Longitudinal	11	19	34857281	C	A	0.9998139	2.068E-05	48352	1	0
LTX103_105029	LTX103:1:154127373:G	Longitudinal	11	1	154127373	G	C	0.9994902	0	27464	0	0
LTX103_105029	LTX103:3:186460038:C	Longitudinal	11	3	186460038	C	A	0.9995733	2.246E-05	44531	1	0
LTX103_105029	LTX103:12:56360899:G	Longitudinal	11	12	56360899	G	C	0.9996202	0	7898	0	0
LTX103_105029	LTX103:20:25304046:C	Longitudinal	11	20	25304046	C	T	0.9997219	0.0002626	64730	17	0
LTX103_105029	LTX103:2:152529008:C	Longitudinal	11	2	152529008	C	G	0.9995048	2.606E-05	76744	2	0
LTX103_105029	LTX103:14:96777916:G	Longitudinal	11	14	96777916	G	C	0.9996915	0	55097	0	0
LTX103_105029	LTX103:6:27858170:T	Longitudinal	11	6	27858170	T	A	0.9998319	0.0001121	35690	4	0
LTX103_105029	LTX103:4:146697106:C	Longitudinal	11	4	146697106	C	A	0.9996684	0	48247	0	0
LTX103_105029	LTX103:22:31059923:A	Longitudinal	11	22	31059923	A	T	0.999753	1.647E-05	60732	1	0
LTX103_105029	LTX103:17:35299508:G	Longitudinal	11	17	35299508	G	C	0.9997895	0	9501	0	0
LTX103_105029	LTX103:15:34133053:G	Longitudinal	11	15	34133053	G	T	0.9997643	1.571E-05	63634	1	0
LTX103_105029	LTX103:1:2543602:G	Longitudinal	11	1	2543602	G	C	0.9996674	4.751E-05	21047	1	0
LTX103_105029	LTX103:5:156589601:C	Longitudinal	11	5	156589601	C	A	0.9996656	2.908E-05	68781	2	0
LTX103_105029	LTX103:14:51226846:C	Longitudinal	11	14	51226846	C	T	0.999726	0.000274	32852	9	0
LTX103_105029	LTX103:9:96233610:A	Longitudinal	11	9	96233610	A	T	0.9997455	3.915E-05	51083	2	0
LTX103_105029	LTX103:7:127222946:C	Longitudinal	11	7	127222946	C	A	0.9997116	1.923E-05	52014	1	0
LTX103_105029	LTX103:1:153909027:G	Longitudinal	11	1	153909027	G	T	0.9998772	0	16284	0	0
LTX103_105029	LTX103:17:62018389:G	Longitudinal	11	17	62018389	G	T	1	0	14325	0	0
LTX103_105029	LTX103:1:171076966:G	Longitudinal	11	1	171076966	G	A	0.9996049	0.0003704	40492	15	0
LTX103_105029	LTX103:16:30999142:A	Longitudinal	11	16	30999142	A	G	0.9996773	0.0001844	21692	4	0
LTX103_105029	LTX103:X:84362885:A	Longitudinal	11	23	84362885	A	G	0.9999601	3.991E-05	25058	1	0
LTX013_101639	LTX013:5:15937258:G	Longitudinal	11	5	15937258	G	A	0.9998632	0.0001368	36560	5	0
LTX013_101639	LTX013:3:183994479:T	Longitudinal	11	3	183994479	T	C	0.9999318	6.819E-05	29328	2	0
LTX013_101639	LTX013:15:48722904:C	Longitudinal	11	15	48722904	C	T	0.9996306	0.0003489	48726	17	0
LTX013_101639	LTX013:10:105147056:C	Longitudinal	11	10	105147056	C	T	0.9990478	0.0008464	37809	32	0
LTX013_101639	LTX013:3:19384197:A	Longitudinal	11	3	19384197	A	T	0.9997246	0	29045	0	0
LTX013_101639	LTX013:8:38205421:T	Longitudinal	11	8	38205421	T	A	0.99983	5.667E-05	35291	2	0
LTX013_101639	LTX013:7:97911732:C	Longitudinal	11	7	97911732	C	G	0.9987833	0	19726	0	0

LTX013_101639	LTX013:22:33733721:G	Longitudinal	11	22	33733721	G	C	0.9997281	0	33095	0	0
LTX013_101639	LTX013:6:127768763:T	Longitudinal	11	6	127768763	T	A	0.9997511	4.148E-05	24110	1	0
LTX013_101639	LTX013:3:17109481:G	Longitudinal	11	3	17109481	G	A	0.9998137	0.0001863	37576	7	0
LTX013_101639	LTX013:1:158724752:C	Longitudinal	11	1	158724752	C	G	0.9994258	0	27865	0	0
LTX013_101639	LTX013:17:18154751:C	Longitudinal	11	17	18154751	C	T	0.9996289	0.0003711	10779	4	0
LTX013_101639	LTX013:2:158617532:C	Longitudinal	11	2	158617532	C	T	0.9996723	0.0003277	39673	13	0
LTX013_101639	LTX013:9:131707989:G	Longitudinal	11	9	131707989	G	C	0.9997372	0	45659	0	0
LTX013_101639	LTX013:16:29706404:C	Longitudinal	11	16	29706404	C	T	1	0	2032	0	0
LTX013_101639	LTX013:2:228771939:G	Longitudinal	11	2	228771939	G	C	0.9995871	0	31484	0	0
LTX013_101639	LTX013:9:19786223:G	Longitudinal	11	9	19786223	G	T	0.9995705	2.863E-05	34925	1	0
LTX013_101639	LTX013:14:31592236:G	Longitudinal	11	14	31592236	G	A	0.9996847	0.0003153	25373	8	0
LTX013_101639	LTX013:11:55861287:C	Longitudinal	11	11	55861287	C	A	0.9997383	0	30564	0	0
LTX013_101639	LTX013:9:133730371:A	Longitudinal	11	9	133730371	A	G	0.9999126	5.827E-05	34321	2	0
LTX013_101639	LTX013:12:62946929:C	Longitudinal	11	12	62946929	C	T	0.9995598	0.0001693	29529	5	0
LTX013_101639	LTX013:7:81689802:G	Longitudinal	11	7	81689802	G	T	0.9998141	0	32280	0	0
LTX013_101639	LTX013:17:58147166:G	Longitudinal	11	17	58147166	G	T	0.9997982	8.073E-05	24774	2	0
LTX013_101639	LTX013:14:74988688:C	Longitudinal	11	14	74988688	C	T	0.9993933	0.0005833	42857	25	0
LTX013_101639	LTX013:2:152403968:C	Longitudinal	11	2	152403968	C	T	0.999512	0.0004636	40982	19	0
LTX013_101639	LTX013:6:50791266:G	Longitudinal	11	6	50791266	G	T	1	0	2354	0	0
LTX013_101639	LTX013:X:114141751:C	Longitudinal	11	23	114141751	C	T	0.9992757	0.0006686	17949	12	0
LTX013_101639	LTX013:X:117044028:C	Longitudinal	11	23	117044028	C	T	0.9992477	0.0007523	15952	12	0
LTX013_101639	LTX013:X:150348926:G	Longitudinal	11	23	150348926	G	A	0.9993503	0.0006497	18469	12	0
LTX103_111772	LTX103:10:96043655:G	Longitudinal	11	10	96043655	G	T	0.9996396	1.802E-05	55499	1	0
LTX103_111772	LTX103:5:141329143:G	Longitudinal	11	5	141329143	G	T	0.9994773	0	63138	0	0
LTX103_111772	LTX103:7:31378481:C	Longitudinal	11	7	31378481	C	G	0.9995953	1.349E-05	74137	1	0
LTX103_111772	LTX103:1:248756505:A	Longitudinal	11	1	248756505	A	C	0.9997858	0	51363	0	0
LTX103_111772	LTX103:1:155263277:C	Longitudinal	11	1	155263277	C	G	0.9991782	0	42587	0	0
LTX103_111772	LTX103:19:10220867:C	Longitudinal	11	19	10220867	C	T	0.9996776	0.0002687	18609	5	0
LTX103_111772	LTX103:19:34857281:C	Longitudinal	11	19	34857281	C	A	0.9996995	1.67E-05	59891	1	0
LTX103_111772	LTX103:1:154127373:G	Longitudinal	11	1	154127373	G	C	0.9996791	0	31163	0	0
LTX103_111772	LTX103:3:186460038:C	Longitudinal	11	3	186460038	C	A	0.9996929	3.612E-05	55365	2	0
LTX103_111772	LTX103:12:56360899:G	Longitudinal	11	12	56360899	G	C	0.9995564	0	9017	0	0
LTX103_111772	LTX103:20:25304046:C	Longitudinal	11	20	25304046	C	T	0.999768	0.000232	68957	16	0
LTX103_111772	LTX103:2:152529008:C	Longitudinal	11	2	152529008	C	G	0.9996776	2.48E-05	80644	2	0
LTX103_111772	LTX103:14:96777916:G	Longitudinal	11	14	96777916	G	C	0.9994513	3.919E-05	51032	2	0
LTX103_111772	LTX103:6:27858170:T	Longitudinal	11	6	27858170	T	A	0.9999411	0	33929	0	0
LTX103_111772	LTX103:4:146697106:C	Longitudinal	11	4	146697106	C	A	0.9996822	0	56638	0	0
LTX103_111772	LTX103:22:31059923:A	Longitudinal	11	22	31059923	A	T	0.9998663	1.486E-05	67294	1	0

LTX103_111772	LTX103:17:35299508:G	Longitudinal	11	17	35299508	G	C	0.9998333	0	11995	0	0
LTX103_111772	LTX103:15:34133053:G	Longitudinal	11	15	34133053	G	T	0.9997397	4.11E-05	72996	3	0
LTX103_111772	LTX103:1:2543602:G	Longitudinal	11	1	2543602	G	C	0.9996939	0	26137	0	0
LTX103_111772	LTX103:5:156589601:C	Longitudinal	11	5	156589601	C	A	0.9995283	1.15E-05	86924	1	0
LTX103_111772	LTX103:14:51226846:C	Longitudinal	11	14	51226846	C	T	0.9997499	0.0002501	43978	11	0
LTX103_111772	LTX103:9:96233610:A	Longitudinal	11	9	96233610	A	T	0.9997648	3.135E-05	63788	2	0
LTX103_111772	LTX103:7:127222946:C	Longitudinal	11	7	127222946	C	A	0.9996933	5.841E-05	68481	4	0
LTX103_111772	LTX103:1:153909027:G	Longitudinal	11	1	153909027	G	T	0.9994684	0.000145	20691	3	0
LTX103_111772	LTX103:17:62018389:G	Longitudinal	11	17	62018389	G	T	0.9999396	0	16556	0	0
LTX103_111772	LTX103:1:171076966:G	Longitudinal	11	1	171076966	G	A	0.9997522	0.0002478	52454	13	0
LTX103_111772	LTX103:16:30999142:A	Longitudinal	11	16	30999142	A	G	0.9998993	0.0001007	29805	3	0
LTX103_111772	LTX103:X:84362885:A	Longitudinal	11	23	84362885	A	G	0.9998045	0.0001629	30690	5	0
LTX103_111590	LTX103:10:96043655:G	Longitudinal	11	10	96043655	G	T	0.9997344	0	48948	0	0
LTX103_111590	LTX103:5:141329143:G	Longitudinal	11	5	141329143	G	T	0.999649	0	51276	0	0
LTX103_111590	LTX103:7:31378481:C	Longitudinal	11	7	31378481	C	G	0.9995363	0.0003434	58233	20	1
LTX103_111590	LTX103:1:248756505:A	Longitudinal	11	1	248756505	A	C	0.9997675	0	43004	0	0
LTX103_111590	LTX103:1:155263277:C	Longitudinal	11	1	155263277	C	G	0.9997046	0	33856	0	0
LTX103_111590	LTX103:19:10220867:C	Longitudinal	11	19	10220867	C	T	0.9997138	0.0002147	13976	3	0
LTX103_111590	LTX103:19:34857281:C	Longitudinal	11	19	34857281	C	A	0.9997953	0	48853	0	0
LTX103_111590	LTX103:1:154127373:G	Longitudinal	11	1	154127373	G	C	0.9993805	0	25828	0	0
LTX103_111590	LTX103:3:186460038:C	Longitudinal	11	3	186460038	C	A	0.9996418	4.214E-05	47461	2	0
LTX103_111590	LTX103:12:56360899:G	Longitudinal	11	12	56360899	G	C	0.9993539	0	7739	0	0
LTX103_111590	LTX103:20:25304046:C	Longitudinal	11	20	25304046	C	T	0.9998096	0.0001904	63032	12	0
LTX103_111590	LTX103:2:152529008:C	Longitudinal	11	2	152529008	C	G	0.9997225	1.46E-05	68480	1	0
LTX103_111590	LTX103:14:96777916:G	Longitudinal	11	14	96777916	G	C	0.9996468	0	48128	0	0
LTX103_111590	LTX103:6:27858170:T	Longitudinal	11	6	27858170	T	A	0.9999665	0	29823	0	0
LTX103_111590	LTX103:4:146697106:C	Longitudinal	11	4	146697106	C	A	0.9998204	0	44555	0	0
LTX103_111590	LTX103:22:31059923:A	Longitudinal	11	22	31059923	A	T	0.9998773	3.506E-05	57037	2	0
LTX103_111590	LTX103:17:35299508:G	Longitudinal	11	17	35299508	G	C	0.9997721	0	8775	0	0
LTX103_111590	LTX103:15:34133053:G	Longitudinal	11	15	34133053	G	T	0.9997697	0	65137	0	0
LTX103_111590	LTX103:1:2543602:G	Longitudinal	11	1	2543602	G	C	0.9995577	4.915E-05	20347	1	0
LTX103_111590	LTX103:5:156589601:C	Longitudinal	11	5	156589601	C	A	0.9997603	1.41E-05	70922	1	0
LTX103_111590	LTX103:14:51226846:C	Longitudinal	11	14	51226846	C	T	0.99974	0.0002022	34614	7	0
LTX103_111590	LTX103:9:96233610:A	Longitudinal	11	9	96233610	A	T	0.9998719	5.492E-05	54627	3	0
LTX103_111590	LTX103:7:127222946:C	Longitudinal	11	7	127222946	C	A	0.999699	1.881E-05	53162	1	0
LTX103_111590	LTX103:1:153909027:G	Longitudinal	11	1	153909027	G	T	0.999629	6.183E-05	16174	1	0
LTX103_111590	LTX103:17:62018389:G	Longitudinal	11	17	62018389	G	T	0.9997818	0	13751	0	0
LTX103_111590	LTX103:1:171076966:G	Longitudinal	11	1	171076966	G	A	0.9992914	0.0003657	43746	16	0

LTX103_111590	LTX103:16:30999142:A	Longitudinal	11	16	30999142	A	G	0.9997021	0.0002128	23495	5	0
LTX103_111590	LTX103:X:84362885:A	Longitudinal	11	23	84362885	A	G	0.9996764	0.0002832	24720	7	0
LTX103_111440	LTX103:10:96043655:G	Longitudinal	11	10	96043655	G	T	0.9996189	2.722E-05	36736	1	0
LTX103_111440	LTX103:5:141329143:G	Longitudinal	11	5	141329143	G	T	0.9996171	0	39172	0	0
LTX103_111440	LTX103:7:31378481:C	Longitudinal	11	7	31378481	C	G	0.9993716	0.000325	46147	15	1
LTX103_111440	LTX103:1:248756505:A	Longitudinal	11	1	248756505	A	C	0.9995177	0	33177	0	0
LTX103_111440	LTX103:1:155263277:C	Longitudinal	11	1	155263277	C	G	0.999264	0.0004261	25815	11	1
LTX103_111440	LTX103:19:10220867:C	Longitudinal	11	19	10220867	C	T	0.9997353	0.0002647	11335	3	0
LTX103_111440	LTX103:19:34857281:C	Longitudinal	11	19	34857281	C	A	0.9997827	4.829E-05	41413	2	0
LTX103_111440	LTX103:1:154127373:G	Longitudinal	11	1	154127373	G	C	0.9994297	4.752E-05	21042	1	0
LTX103_111440	LTX103:3:186460038:C	Longitudinal	11	3	186460038	C	A	0.9992496	8.04E-05	37315	3	0
LTX103_111440	LTX103:12:56360899:G	Longitudinal	11	12	56360899	G	C	0.9998215	0	5603	0	0
LTX103_111440	LTX103:20:25304046:C	Longitudinal	11	20	25304046	C	T	0.9994865	0.0005135	48686	25	0
LTX103_111440	LTX103:2:152529008:C	Longitudinal	11	2	152529008	C	G	0.9996916	0	55131	0	0
LTX103_111440	LTX103:14:96777916:G	Longitudinal	11	14	96777916	G	C	0.9995948	5.403E-05	37016	2	0
LTX103_111440	LTX103:6:27858170:T	Longitudinal	11	6	27858170	T	A	0.9997909	0	23915	0	0
LTX103_111440	LTX103:4:146697106:C	Longitudinal	11	4	146697106	C	A	0.9994596	3.002E-05	33310	1	0
LTX103_111440	LTX103:22:31059923:A	Longitudinal	11	22	31059923	A	T	0.9997099	6.694E-05	44814	3	0
LTX103_111440	LTX103:17:35299508:G	Longitudinal	11	17	35299508	G	C	0.9997284	0.0001358	7363	1	1
LTX103_111440	LTX103:15:34133053:G	Longitudinal	11	15	34133053	G	T	0.9997338	0	48827	0	0
LTX103_111440	LTX103:1:2543602:G	Longitudinal	11	1	2543602	G	C	0.9997563	6.093E-05	16413	1	0
LTX103_111440	LTX103:5:156589601:C	Longitudinal	11	5	156589601	C	A	0.9997148	1.782E-05	56104	1	0
LTX103_111440	LTX103:14:51226846:C	Longitudinal	11	14	51226846	C	T	0.9996081	0.0003527	25514	9	0
LTX103_111440	LTX103:9:96233610:A	Longitudinal	11	9	96233610	A	T	0.9998306	7.259E-05	41330	3	0
LTX103_111440	LTX103:7:127222946:C	Longitudinal	11	7	127222946	C	A	0.9997594	0	41561	0	0
LTX103_111440	LTX103:1:153909027:G	Longitudinal	11	1	153909027	G	T	0.9982859	0.0014693	12251	18	1
LTX103_111440	LTX103:17:62018389:G	Longitudinal	11	17	62018389	G	T	1	0	9625	0	0
LTX103_111440	LTX103:1:171076966:G	Longitudinal	11	1	171076966	G	A	0.9997716	0.0001999	35023	7	0
LTX103_111440	LTX103:16:30999142:A	Longitudinal	11	16	30999142	A	G	0.999753	0.000247	20241	5	0
LTX103_111440	LTX103:X:84362885:A	Longitudinal	11	23	84362885	A	G	0.9997394	0.0001564	19186	3	0
LTX103_111422	LTX103:10:96043655:G	Longitudinal	11	10	96043655	G	T	0.9995982	5.022E-05	39823	2	0
LTX103_111422	LTX103:5:141329143:G	Longitudinal	11	5	141329143	G	T	0.9996194	0	44666	0	0
LTX103_111422	LTX103:7:31378481:C	Longitudinal	11	7	31378481	C	G	0.9994792	0.0003806	49919	19	1
LTX103_111422	LTX103:1:248756505:A	Longitudinal	11	1	248756505	A	C	0.9996387	0.0002502	35977	9	1
LTX103_111422	LTX103:1:155263277:C	Longitudinal	11	1	155263277	C	G	0.9995181	0	29054	0	0
LTX103_111422	LTX103:19:10220867:C	Longitudinal	11	19	10220867	C	T	0.9987609	0.0011616	12913	15	0
LTX103_111422	LTX103:19:34857281:C	Longitudinal	11	19	34857281	C	A	0.9992901	0.0005206	42257	22	1
LTX103_111422	LTX103:1:154127373:G	Longitudinal	11	1	154127373	G	C	0.9990202	0	22454	0	0

LTX103_111422	LTX103:3:186460038:C	Longitudinal	11	3	186460038	C	A	0.9996807	2.456E-05	40719	1	0
LTX103_111422	LTX103:12:56360899:G	Longitudinal	11	12	56360899	G	C	0.9995337	0	6434	0	0
LTX103_111422	LTX103:20:25304046:C	Longitudinal	11	20	25304046	C	T	0.9997353	0.0002647	49109	13	0
LTX103_111422	LTX103:2:152529008:C	Longitudinal	11	2	152529008	C	G	0.9994222	3.399E-05	58847	2	0
LTX103_111422	LTX103:14:96777916:G	Longitudinal	11	14	96777916	G	C	0.9997586	0	41419	0	0
LTX103_111422	LTX103:6:27858170:T	Longitudinal	11	6	27858170	T	A	0.999663	7.489E-05	26705	2	0
LTX103_111422	LTX103:4:146697106:C	Longitudinal	11	4	146697106	C	A	0.9997958	0	39179	0	0
LTX103_111422	LTX103:22:31059923:A	Longitudinal	11	22	31059923	A	T	0.9994441	0.0004062	46775	19	1
LTX103_111422	LTX103:17:35299508:G	Longitudinal	11	17	35299508	G	C	0.9996357	0	8236	0	0
LTX103_111422	LTX103:15:34133053:G	Longitudinal	11	15	34133053	G	T	0.9990518	0.0006321	53786	34	1
LTX103_111422	LTX103:1:2543602:G	Longitudinal	11	1	2543602	G	C	0.9992965	0	17058	0	0
LTX103_111422	LTX103:5:156589601:C	Longitudinal	11	5	156589601	C	A	0.9997727	6.496E-05	61580	4	0
LTX103_111422	LTX103:14:51226846:C	Longitudinal	11	14	51226846	C	T	0.9994596	0.0005404	27759	15	0
LTX103_111422	LTX103:9:96233610:A	Longitudinal	11	9	96233610	A	T	0.9992535	0.0003318	48228	16	1
LTX103_111422	LTX103:7:127222946:C	Longitudinal	11	7	127222946	C	A	0.9997098	0.0001786	44800	8	1
LTX103_111422	LTX103:1:153909027:G	Longitudinal	11	1	153909027	G	T	0.9994915	0	13766	0	0
LTX103_111422	LTX103:17:62018389:G	Longitudinal	11	17	62018389	G	T	0.9998457	0	12965	0	0
LTX103_111422	LTX103:1:171076966:G	Longitudinal	11	1	171076966	G	A	0.9998411	0.0001589	37748	6	0
LTX103_111422	LTX103:16:30999142:A	Longitudinal	11	16	30999142	A	G	0.9997289	0.0001807	22135	4	0
LTX103_111422	LTX103:X:84362885:A	Longitudinal	11	23	84362885	A	G	0.99973	0.000225	22221	5	0
LTX103_123517	LTX103:10:96043655:G	Longitudinal	11	10	96043655	G	T	0.9991268	0.0005483	49245	27	1
LTX103_123517	LTX103:5:141329143:G	Longitudinal	11	5	141329143	G	T	0.9983908	0.0012948	54063	70	1
LTX103_123517	LTX103:7:31378481:C	Longitudinal	11	7	31378481	C	G	0.9982674	0.0014176	63489	90	1
LTX103_123517	LTX103:1:248756505:A	Longitudinal	11	1	248756505	A	C	0.99942	0.0004408	43101	19	1
LTX103_123517	LTX103:1:155263277:C	Longitudinal	11	1	155263277	C	G	0.9998818	0	33831	0	0
LTX103_123517	LTX103:19:10220867:C	Longitudinal	11	19	10220867	C	T	0.9998609	0.0001391	14376	2	0
LTX103_123517	LTX103:19:34857281:C	Longitudinal	11	19	34857281	C	A	0.9994912	1.884E-05	53065	1	0
LTX103_123517	LTX103:1:154127373:G	Longitudinal	11	1	154127373	G	C	0.9993497	0.0002168	27678	6	0
LTX103_123517	LTX103:3:186460038:C	Longitudinal	11	3	186460038	C	A	0.9997082	4.168E-05	47979	2	0
LTX103_123517	LTX103:12:56360899:G	Longitudinal	11	12	56360899	G	C	0.998739	0.0010088	7930	8	1
LTX103_123517	LTX103:20:25304046:C	Longitudinal	11	20	25304046	C	T	0.999634	0.000366	57383	21	0
LTX103_123517	LTX103:2:152529008:C	Longitudinal	11	2	152529008	C	G	0.9993482	0.000319	72110	23	1
LTX103_123517	LTX103:14:96777916:G	Longitudinal	11	14	96777916	G	C	0.9997756	0	49009	0	0
LTX103_123517	LTX103:6:27858170:T	Longitudinal	11	6	27858170	T	A	0.9992135	0.0006921	31788	22	1
LTX103_123517	LTX103:4:146697106:C	Longitudinal	11	4	146697106	C	A	0.9991509	0.0005519	47110	26	1
LTX103_123517	LTX103:22:31059923:A	Longitudinal	11	22	31059923	A	T	0.9997349	1.767E-05	56592	1	0
LTX103_123517	LTX103:17:35299508:G	Longitudinal	11	17	35299508	G	C	0.9995108	0	10220	0	0
LTX103_123517	LTX103:15:34133053:G	Longitudinal	11	15	34133053	G	T	0.9996493	1.594E-05	62735	1	0

LTX103_123517	LTX103:1:2543602:G	Longitudinal	11	1	2543602	G	C	0.9997586	4.828E-05	20713	1	0
LTX103_123517	LTX103:5:156589601:C	Longitudinal	11	5	156589601	C	A	0.999474	0.0002698	74139	20	1
LTX103_123517	LTX103:14:51226846:C	Longitudinal	11	14	51226846	C	T	0.9996552	0.0003161	34802	11	0
LTX103_123517	LTX103:9:96233610:A	Longitudinal	11	9	96233610	A	T	0.9999143	0	58376	0	0
LTX103_123517	LTX103:7:127222946:C	Longitudinal	11	7	127222946	C	A	0.9982868	0.0015185	51367	78	1
LTX103_123517	LTX103:1:153909027:G	Longitudinal	11	1	153909027	G	T	0.9997643	0	16970	0	0
LTX103_123517	LTX103:17:62018389:G	Longitudinal	11	17	62018389	G	T	0.9999181	8.187E-05	12214	1	1
LTX103_123517	LTX103:1:171076966:G	Longitudinal	11	1	171076966	G	A	0.9997646	0.0001926	46738	9	0
LTX103_123517	LTX103:16:30999142:A	Longitudinal	11	16	30999142	A	G	0.9997899	0.0002101	23793	5	0
LTX103_123517	LTX103:X:84362885:A	Longitudinal	11	23	84362885	A	G	0.9998451	0.0001549	25829	4	0
LTX103_123498	LTX103:10:96043655:G	Longitudinal	11	10	96043655	G	T	0.9995288	4.488E-05	44564	2	0
LTX103_123498	LTX103:5:141329143:G	Longitudinal	11	5	141329143	G	T	0.9997049	0	44051	0	0
LTX103_123498	LTX103:7:31378481:C	Longitudinal	11	7	31378481	C	G	0.999638	1.905E-05	52489	1	0
LTX103_123498	LTX103:1:248756505:A	Longitudinal	11	1	248756505	A	C	0.9997882	0	37764	0	0
LTX103_123498	LTX103:1:155263277:C	Longitudinal	11	1	155263277	C	G	0.9997303	0	29664	0	0
LTX103_123498	LTX103:19:10220867:C	Longitudinal	11	19	10220867	C	T	0.9994627	0.0005373	14890	8	0
LTX103_123498	LTX103:19:34857281:C	Longitudinal	11	19	34857281	C	A	0.9996593	0	44029	0	0
LTX103_123498	LTX103:1:154127373:G	Longitudinal	11	1	154127373	G	C	0.9992135	0	21614	0	0
LTX103_123498	LTX103:3:186460038:C	Longitudinal	11	3	186460038	C	A	0.9996273	2.484E-05	40252	1	0
LTX103_123498	LTX103:12:56360899:G	Longitudinal	11	12	56360899	G	C	0.9994828	0	5801	0	0
LTX103_123498	LTX103:20:25304046:C	Longitudinal	11	20	25304046	C	T	0.9996099	0.0003901	51274	20	0
LTX103_123498	LTX103:2:152529008:C	Longitudinal	11	2	152529008	C	G	0.9996282	3.38E-05	59174	2	0
LTX103_123498	LTX103:14:96777916:G	Longitudinal	11	14	96777916	G	C	0.9996506	2.496E-05	40063	1	0
LTX103_123498	LTX103:6:27858170:T	Longitudinal	11	6	27858170	T	A	0.9997168	4.046E-05	24714	1	0
LTX103_123498	LTX103:4:146697106:C	Longitudinal	11	4	146697106	C	A	0.9996209	0.0001516	39572	6	1
LTX103_123498	LTX103:22:31059923:A	Longitudinal	11	22	31059923	A	T	0.9998151	4.109E-05	48675	2	0
LTX103_123498	LTX103:17:35299508:G	Longitudinal	11	17	35299508	G	C	0.999586	0	9662	0	0
LTX103_123498	LTX103:15:34133053:G	Longitudinal	11	15	34133053	G	T	0.9996943	3.396E-05	58889	2	0
LTX103_123498	LTX103:1:2543602:G	Longitudinal	11	1	2543602	G	C	0.9995688	0	18553	0	0
LTX103_123498	LTX103:5:156589601:C	Longitudinal	11	5	156589601	C	A	0.9996316	1.535E-05	65140	1	0
LTX103_123498	LTX103:14:51226846:C	Longitudinal	11	14	51226846	C	T	0.9996889	0.0002765	28934	8	0
LTX103_123498	LTX103:9:96233610:A	Longitudinal	11	9	96233610	A	T	0.9997916	2.084E-05	47991	1	0
LTX103_123498	LTX103:7:127222946:C	Longitudinal	11	7	127222946	C	A	0.9998431	4.482E-05	44623	2	0
LTX103_123498	LTX103:1:153909027:G	Longitudinal	11	1	153909027	G	T	0.9997216	0	14368	0	0
LTX103_123498	LTX103:17:62018389:G	Longitudinal	11	17	62018389	G	T	1	0	11335	0	0
LTX103_123498	LTX103:1:171076966:G	Longitudinal	11	1	171076966	G	A	0.9998172	0.0001828	38287	7	0
LTX103_123498	LTX103:16:30999142:A	Longitudinal	11	16	30999142	A	G	0.9997804	0.0001757	22765	4	0
LTX103_123498	LTX103:X:84362885:A	Longitudinal	11	23	84362885	A	G	0.9996612	0.0003388	23612	8	0

LTX013	LTX013:5:15937258:G	Baseline	11	5	15937258	G	A	0.9996375	0.0003625	33100	12	0
LTX013	LTX013:3:183994479:T	Baseline	11	3	183994479	T	C	0.9998113	0.0001887	15896	3	0
LTX013	LTX013:15:48722904:C	Baseline	11	15	48722904	C	T	0.9993387	0.0006419	51413	33	0
LTX013	LTX013:10:105147056:C	Baseline	11	10	105147056	C	T	0.9991429	0.0008153	47836	39	0
LTX013	LTX013:3:19384197:A	Baseline	11	3	19384197	A	T	0.9997891	2.636E-05	37941	1	0
LTX013	LTX013:8:38205421:T	Baseline	11	8	38205421	T	A	0.9996631	4.492E-05	44522	2	0
LTX013	LTX013:7:97911732:C	Baseline	11	7	97911732	C	G	0.9998176	0	10967	0	0
LTX013	LTX013:22:33733721:G	Baseline	11	22	33733721	G	C	0.9996745	0	30719	0	0
LTX013	LTX013:6:127768763:T	Baseline	11	6	127768763	T	A	0.9997022	0.0002085	33577	7	0
LTX013	LTX013:3:17109481:G	Baseline	11	3	17109481	G	A	0.9996408	0.0002594	50114	13	0
LTX013	LTX013:1:158724752:C	Baseline	11	1	158724752	C	G	0.9997499	0	31989	0	0
LTX013	LTX013:17:18154751:C	Baseline	11	17	18154751	C	T	0.9993194	0.0006806	5877	4	0
LTX013	LTX013:2:158617532:C	Baseline	11	2	158617532	C	T	0.9995801	0.0003978	45254	18	0
LTX013	LTX013:9:131707989:G	Baseline	11	9	131707989	G	C	0.9997255	1.96E-05	51009	1	0
LTX013	LTX013:16:29706404:C	Baseline	11	16	29706404	C	T	NaN	NaN	0		0
LTX013	LTX013:2:228771939:G	Baseline	11	2	228771939	G	C	0.9996849	0	41260	0	0
LTX013	LTX013:9:19786223:G	Baseline	11	9	19786223	G	T	0.9997825	0	41386	0	0
LTX013	LTX013:14:31592236:G	Baseline	11	14	31592236	G	A	0.9995148	0.0004852	30918	15	0
LTX013	LTX013:11:55861287:C	Baseline	11	11	55861287	C	A	0.9996675	2.771E-05	36094	1	0
LTX013	LTX013:9:133730371:A	Baseline	11	9	133730371	A	G	0.999858	0.000142	28173	4	0
LTX013	LTX013:12:62946929:C	Baseline	11	12	62946929	C	T	0.9997119	0.0002161	41646	9	0
LTX013	LTX013:7:81689802:G	Baseline	11	7	81689802	G	T	0.9996899	2.215E-05	45140	1	0
LTX013	LTX013:17:58147166:G	Baseline	11	17	58147166	G	T	0.9995767	0	30712	0	0
LTX013	LTX013:14:74988688:C	Baseline	11	14	74988688	C	T	0.9995868	0.0003005	26620	8	0
LTX013	LTX013:2:152403968:C	Baseline	11	2	152403968	C	T	0.9995025	0.0004975	50252	25	0
LTX013	LTX013:6:50791266:G	Baseline	11	6	50791266	G	T	1	0	1164	0	0
LTX013	LTX013:X:114141751:C	Baseline	11	23	114141751	C	T	0.9996011	0.000359	25071	9	0
LTX013	LTX013:X:117044028:C	Baseline	11	23	117044028	C	T	0.9996484	0.0002637	22753	6	0
LTX013	LTX013:X:150348926:G	Baseline	11	23	150348926	G	A	0.9984759	0.0015241	18371	28	1
LTX028	LTX028:16:11000781:G	Baseline	11	16	11000781	G	A	0.9947519	0.0052481	32583	171	1
LTX028	LTX028:18:22804610:C	Baseline	11	18	22804610	C	G	0.9971996	0.0025374	64633	164	1
LTX028	LTX028:1:238053905:C	Baseline	11	1	238053905	C	G	0.9972964	0.0023411	66207	155	1
LTX028	LTX028:16:27454289:C	Baseline	11	16	27454289	C	A	0.9980202	0.0016011	58086	93	1
LTX028	LTX028:6:117638319:G	Baseline	11	6	117638319	G	A	0.9984619	0.0015225	64366	98	1
LTX028	LTX028:19:56896362:T	Baseline	11	19	56896362	T	A	0.999049	0.0008242	63093	52	1
LTX028	LTX028:19:38942485:A	Baseline	11	19	38942485	A	C	0.9983106	0.0016894	27228	46	1
LTX028	LTX028:16:55705930:C	Baseline	11	16	55705930	C	G	0.9985741	0.0009506	25247	24	1
LTX028	LTX028:10:22016857:G	Baseline	11	10	22016857	G	T	0.9991498	0.000537	67044	36	1

LTX028	LTX028:1:153658292:A	Baseline	11	1	153658292	A	T	0.9999373	1.568E-05	63793	1	0
LTX028	LTX028:10:12139797:C	Baseline	11	10	12139797	C	G	0.9997504	0	64099	0	0
LTX028	LTX028:11:5969433:T	Baseline	11	11	5969433	T	G	0.9994009	0.0001198	83456	10	1
LTX028	LTX028:6:170592441:G	Baseline	11	6	170592441	G	T	0.9997675	6.642E-05	30111	2	0
LTX028	LTX028:1:43904447:A	Baseline	11	1	43904447	A	C	0.9999145	0	46758	0	0
LTX028	LTX028:6:27879686:G	Baseline	11	6	27879686	G	C	0.9996214	0	81889	0	0
LTX028	LTX028:18:21957404:C	Baseline	11	18	21957404	C	A	0.9996816	0	65950	0	0
LTX028	LTX028:1:237817673:A	Baseline	11	1	237817673	A	T	0.999805	0	71784	0	0
LTX028	LTX028:10:21823709:G	Baseline	11	10	21823709	G	T	0.9978288	0.0015509	3224	5	1
LTX028	LTX028:18:10696430:A	Baseline	11	18	10696430	A	T	0.9986103	0.0010262	46773	48	1
LTX060	LTX060:13:46917549:G	Baseline	11	13	46917549	G	C	0.9997464	0	47317	0	0
LTX060	LTX060:4:187557791:C	Baseline	11	4	187557791	C	A	0.9997015	0	53598	0	0
LTX060	LTX060:19:9065338:G	Baseline	11	19	9065338	G	C	0.9996355	7.673E-05	52128	4	0
LTX060	LTX060:17:37565172:G	Baseline	11	17	37565172	G	C	0.9997341	0	45132	0	0
LTX060	LTX060:4:1952890:C	Baseline	11	4	1952890	C	G	0.9991628	0.0005796	46582	27	1
LTX060	LTX060:16:2224312:G	Baseline	11	16	2224312	G	T	0.9995895	2.566E-05	38976	1	0
LTX060	LTX060:1:2431112:G	Baseline	11	1	2431112	G	C	0.9997108	0	44956	0	0
LTX060	LTX060:6:145157042:G	Baseline	11	6	145157042	G	C	0.9997102	0	55220	0	0
LTX060	LTX060:20:16348162:G	Baseline	11	20	16348162	G	C	0.9997959	0	68593	0	0
LTX060	LTX060:17:20156881:C	Baseline	11	17	20156881	C	A	0.9996684	0	48248	0	0
LTX060	LTX060:15:34649385:C	Baseline	11	15	34649385	C	T	0.9997738	0.0002262	44206	10	0
LTX060	LTX060:21:36265236:G	Baseline	11	21	36265236	G	C	0.9996324	0	35362	0	0
LTX060	LTX060:3:101504494:G	Baseline	11	3	101504494	G	T	0.9997453	0	43195	0	0
LTX060	LTX060:3:105452857:C	Baseline	11	3	105452857	C	A	0.9949984	0	6198	0	0
LTX060	LTX060:2:29541185:C	Baseline	11	2	29541185	C	G	0.9997602	0	41697	0	0
LTX060	LTX060:17:47677801:G	Baseline	11	17	47677801	G	C	0.9998105	0	47492	0	0
LTX060	LTX060:1:155735084:G	Baseline	11	1	155735084	G	T	0.9996719	0	45719	0	0
LTX060	LTX060:17:48918125:G	Baseline	11	17	48918125	G	C	0.9997535	6.164E-05	32448	2	0
LTX060	LTX060:3:59999825:C	Baseline	11	3	59999825	C	G	0.9995665	3.468E-05	57673	2	0
LTX060	LTX060:3:155615774:G	Baseline	11	3	155615774	G	C	0.9996841	0	47477	0	0
LTX060	LTX060:22:31741348:C	Baseline	11	22	31741348	C	T	0.9993295	0.0006705	2983	2	0
LTX060	LTX060:12:394744:C	Baseline	11	12	394744	C	T	0.9994461	0.0004874	45135	22	0
LTX060	LTX060:6:157522016:G	Baseline	11	6	157522016	G	C	0.999428	3.575E-05	27972	1	0
LTX060	LTX060:3:12633227:C	Baseline	11	3	12633227	C	G	0.9998497	0	46584	0	0
LTX060	LTX060:16:9857250:G	Baseline	11	16	9857250	G	C	0.9996416	0	66965	0	0
LTX060	LTX060:16:50741841:T	Baseline	11	16	50741841	T	A	0.9999254	1.864E-05	53647	1	0
LTX060	LTX060:20:31021451:G	Baseline	11	20	31021451	G	T	0.9993757	2.014E-05	49656	1	0
LTX063	LTX063:9:135982591:C	Baseline	11	9	135982591	C	A	0.9930828	0.0061827	16336	101	1

LTX063	LTX063:3:57430962:G	Baseline	11	3	57430962	G	A	0.9981401	0.0018413	53766	99	1
LTX063	LTX063:2:73302776:C	Baseline	11	2	73302776	C	A	0.9983631	0.0016369	6109	10	1
LTX063	LTX063:12:125298872:C	Baseline	11	12	125298872	C	A	0.9980665	0.0014001	29998	42	1
LTX063	LTX063:7:31144522:A	Baseline	11	7	31144522	A	C	0.9977513	0.0017989	44471	80	1
LTX063	LTX063:16:65016009:C	Baseline	11	16	65016009	C	G	0.99813	0.0012635	39572	50	1
LTX063	LTX063:11:32449506:T	Baseline	11	11	32449506	T	A	0.9989655	0.0006897	2900	2	1
LTX063	LTX063:15:74326870:C	Baseline	11	15	74326870	C	T	0.9985484	0.0014516	18600	27	1
LTX063	LTX063:7:50450378:C	Baseline	11	7	50450378	C	G	0.9993561	8.049E-05	12424	1	1
LTX063	LTX063:10:70332109:G	Baseline	11	10	70332109	G	A	0.9994364	0.0005434	49685	27	0
LTX063	LTX063:19:15511627:G	Baseline	11	19	15511627	G	T	0.9992952	0.0005804	24121	14	1
LTX063	LTX063:16:15811171:C	Baseline	11	16	15811171	C	T	0.9993342	0.0003329	6008	2	0
LTX063	LTX063:6:26508774:T	Baseline	11	6	26508774	T	A	0.9996668	0.0001458	48015	7	1
LTX063	LTX063:8:144812392:C	Baseline	11	8	144812392	C	T	0.9995671	0.0004329	2310	1	0
LTX063	LTX063:7:49815709:G	Baseline	11	7	49815709	G	C	0.9988981	0.0007346	24504	18	1
LTX063	LTX063:2:11770074:C	Baseline	11	2	11770074	C	A	0.9994319	0.000299	33447	10	1
LTX063	LTX063:17:7578263:G	Baseline	11	17	7578263	G	A	0.9949916	0.0049813	36938	184	1
LTX063	LTX063:10:50732500:C	Baseline	11	10	50732500	C	A	0.998204	0.0014484	51781	75	1
LTX063	LTX063:1:27102068:G	Baseline	11	1	27102068	G	T	0.9981048	0.0015878	39047	62	1
LTX063	LTX063:10:108378016:C	Baseline	11	10	108378016	C	A	0.9981799	0.0014734	46151	68	1
LTX013_101710	LTX013:5:15937258:G	Longitudinal	11	5	15937258	G	A	0.9994822	0.0005178	44418	23	0
LTX013_101710	LTX013:3:183994479:T	Longitudinal	11	3	183994479	T	C	0.9995809	0.0003224	31017	10	0
LTX013_101710	LTX013:15:48722904:C	Longitudinal	11	15	48722904	C	T	0.9991234	0.0008161	66167	54	0
LTX013_101710	LTX013:10:105147056:C	Longitudinal	11	10	105147056	C	T	0.998707	0.0011965	51816	62	0
LTX013_101710	LTX013:3:19384197:A	Longitudinal	11	3	19384197	A	T	0.9995979	2.365E-05	42283	1	0
LTX013_101710	LTX013:8:38205421:T	Longitudinal	11	8	38205421	T	A	0.9998377	0.0001014	49292	5	0
LTX013_101710	LTX013:7:97911732:C	Longitudinal	11	7	97911732	C	G	0.9997706	0	21799	0	0
LTX013_101710	LTX013:22:33733721:G	Longitudinal	11	22	33733721	G	C	0.9997888	0	42611	0	0
LTX013_101710	LTX013:6:127768763:T	Longitudinal	11	6	127768763	T	A	0.9994601	0.0001989	35194	7	0
LTX013_101710	LTX013:3:17109481:G	Longitudinal	11	3	17109481	G	A	0.9997647	0.0002157	51002	11	0
LTX013_101710	LTX013:1:158724752:C	Longitudinal	11	1	158724752	C	G	0.9997236	0	36177	0	0
LTX013_101710	LTX013:17:18154751:C	Longitudinal	11	17	18154751	C	T	0.9994008	0.0005992	10014	6	0
LTX013_101710	LTX013:2:158617532:C	Longitudinal	11	2	158617532	C	T	0.9995972	0.0003693	59580	22	0
LTX013_101710	LTX013:9:131707989:G	Longitudinal	11	9	131707989	G	C	0.9997262	0	62087	0	0
LTX013_101710	LTX013:16:29706404:C	Longitudinal	11	16	29706404	C	T	1	0	1786	0	0
LTX013_101710	LTX013:2:228771939:G	Longitudinal	11	2	228771939	G	C	0.9996351	0	46582	0	0
LTX013_101710	LTX013:9:19786223:G	Longitudinal	11	9	19786223	G	T	0.9994139	0	49481	0	0
LTX013_101710	LTX013:14:31592236:G	Longitudinal	11	14	31592236	G	A	0.9995005	0.0004718	36034	17	0
LTX013_101710	LTX013:11:55861287:C	Longitudinal	11	11	55861287	C	A	0.9997922	0	43308	0	0

LTX013_101710	LTX013:9:133730371:A	Longitudinal	11	9	133730371	A	G	0.9997539	0.0002461	44690	11	0
LTX013_101710	LTX013:12:62946929:C	Longitudinal	11	12	62946929	C	T	0.9995438	0.0003259	46030	15	0
LTX013_101710	LTX013:7:81689802:G	Longitudinal	11	7	81689802	G	T	0.9996772	0	46466	0	0
LTX013_101710	LTX013:17:58147166:G	Longitudinal	11	17	58147166	G	T	0.9995127	2.867E-05	34884	1	0
LTX013_101710	LTX013:14:74988688:C	Longitudinal	11	14	74988688	C	T	0.9995386	0.0002809	49843	14	0
LTX013_101710	LTX013:2:152403968:C	Longitudinal	11	2	152403968	C	T	0.9993896	0.0005406	57344	31	0
LTX013_101710	LTX013:6:50791266:G	Longitudinal	11	6	50791266	G	T	0.9990544	0	2115	0	0
LTX013_101710	LTX013:X:114141751:C	Longitudinal	11	23	114141751	C	T	0.9994789	0.0005211	24949	13	0
LTX013_101710	LTX013:X:117044028:C	Longitudinal	11	23	117044028	C	T	0.9987751	0.0011841	24492	29	0
LTX013_101710	LTX013:X:150348926:G	Longitudinal	11	23	150348926	G	A	0.9995795	0.0004205	23779	10	0
LTX103	LTX103:10:96043655:G	Baseline	11	10	96043655	G	T	0.9997516	0	48301	0	0
LTX103	LTX103:5:141329143:G	Baseline	11	5	141329143	G	T	0.9998131	0	37455	0	0
LTX103	LTX103:7:31378481:C	Baseline	11	7	31378481	C	G	0.9996808	1.68E-05	59523	1	0
LTX103	LTX103:1:248756505:A	Baseline	11	1	248756505	A	C	0.9998157	3.071E-05	32562	1	0
LTX103	LTX103:1:155263277:C	Baseline	11	1	155263277	C	G	0.9994872	0	17551	0	0
LTX103	LTX103:19:10220867:C	Baseline	11	19	10220867	C	T	0.9997421	0.0002579	7756	2	0
LTX103	LTX103:19:34857281:C	Baseline	11	19	34857281	C	A	0.9994569	2.858E-05	34987	1	0
LTX103	LTX103:1:154127373:G	Baseline	11	1	154127373	G	C	0.9997151	7.123E-05	14039	1	0
LTX103	LTX103:3:186460038:C	Baseline	11	3	186460038	C	A	0.9993589	4.274E-05	46797	2	0
LTX103	LTX103:12:56360899:G	Baseline	11	12	56360899	G	C	0.9995308	0	4263	0	0
LTX103	LTX103:20:25304046:C	Baseline	11	20	25304046	C	T	0.9991894	0.0007768	59218	46	1
LTX103	LTX103:2:152529008:C	Baseline	11	2	152529008	C	G	0.9996697	0	57528	0	0
LTX103	LTX103:14:96777916:G	Baseline	11	14	96777916	G	C	0.9995488	3.76E-05	53193	2	0
LTX103	LTX103:6:27858170:T	Baseline	11	6	27858170	T	A	0.99978	4.4E-05	22729	1	0
LTX103	LTX103:4:146697106:C	Baseline	11	4	146697106	C	A	0.9998509	0	40234	0	0
LTX103	LTX103:22:31059923:A	Baseline	11	22	31059923	A	T	0.9998953	5.234E-05	38211	2	0
LTX103	LTX103:17:35299508:G	Baseline	11	17	35299508	G	C	0.9997717	0	4380	0	0
LTX103	LTX103:15:34133053:G	Baseline	11	15	34133053	G	T	0.9995731	2.944E-05	67937	2	0
LTX103	LTX103:1:2543602:G	Baseline	11	1	2543602	G	C	0.9995551	0.000178	11238	2	1
LTX103	LTX103:5:156589601:C	Baseline	11	5	156589601	C	A	0.9997166	3.779E-05	52929	2	0
LTX103	LTX103:14:51226846:C	Baseline	11	14	51226846	C	T	0.9994764	0.0005236	19097	10	0
LTX103	LTX103:9:96233610:A	Baseline	11	9	96233610	A	T	0.9998473	7.634E-05	52398	4	0
LTX103	LTX103:7:127222946:C	Baseline	11	7	127222946	C	A	0.9995574	3.161E-05	31634	1	0
LTX103	LTX103:1:153909027:G	Baseline	11	1	153909027	G	T	0.9996464	0	8485	0	0
LTX103	LTX103:17:62018389:G	Baseline	11	17	62018389	G	T	0.9998437	0	6399	0	0
LTX103	LTX103:1:171076966:G	Baseline	11	1	171076966	G	A	0.9992882	0.0007118	47763	34	0
LTX103	LTX103:16:30999142:A	Baseline	11	16	30999142	A	G	0.9998483	0.0001517	13186	2	0
LTX103	LTX103:X:84362885:A	Baseline	11	23	84362885	A	G	0.9999437	0	17771	0	0

LTX013_101858	LTX013:5:15937258:G	Longitudinal	11	5	15937258	G	A	0.9993314	0.0005963	55341	33	0
LTX013_101858	LTX013:3:183994479:T	Longitudinal	11	3	183994479	T	C	0.9997035	0.0002696	37094	10	0
LTX013_101858	LTX013:15:48722904:C	Longitudinal	11	15	48722904	C	T	0.9994924	0.0004952	80769	40	0
LTX013_101858	LTX013:10:105147056:C	Longitudinal	11	10	105147056	C	T	0.9994327	0.0005248	70504	37	0
LTX013_101858	LTX013:3:19384197:A	Longitudinal	11	3	19384197	A	T	0.9996122	0	51570	0	0
LTX013_101858	LTX013:8:38205421:T	Longitudinal	11	8	38205421	T	A	0.9997998	4.62E-05	64940	3	0
LTX013_101858	LTX013:7:97911732:C	Longitudinal	11	7	97911732	C	G	0.9998877	0	26709	0	0
LTX013_101858	LTX013:22:33733721:G	Longitudinal	11	22	33733721	G	C	0.9996842	0	50658	0	0
LTX013_101858	LTX013:6:127768763:T	Longitudinal	11	6	127768763	T	A	0.9996522	0.0001391	43127	6	0
LTX013_101858	LTX013:3:17109481:G	Longitudinal	11	3	17109481	G	A	0.9996905	0.0002358	67857	16	0
LTX013_101858	LTX013:1:158724752:C	Longitudinal	11	1	158724752	C	G	0.9997253	0	47317	0	0
LTX013_101858	LTX013:17:18154751:C	Longitudinal	11	17	18154751	C	T	0.9995559	0.0003553	11259	4	0
LTX013_101858	LTX013:2:158617532:C	Longitudinal	11	2	158617532	C	T	0.999609	0.000377	71619	27	0
LTX013_101858	LTX013:9:131707989:G	Longitudinal	11	9	131707989	G	C	0.9998112	0	79444	0	0
LTX013_101858	LTX013:16:29706404:C	Longitudinal	11	16	29706404	C	T	0.9986339	0.0013661	2196	3	0
LTX013_101858	LTX013:2:228771939:G	Longitudinal	11	2	228771939	G	C	0.9997699	0	56501	0	0
LTX013_101858	LTX013:9:19786223:G	Longitudinal	11	9	19786223	G	T	0.99976	0	62487	0	0
LTX013_101858	LTX013:14:31592236:G	Longitudinal	11	14	31592236	G	A	0.9993518	0.0006251	43196	27	0
LTX013_101858	LTX013:11:55861287:C	Longitudinal	11	11	55861287	C	A	0.9996354	1.823E-05	54851	1	0
LTX013_101858	LTX013:9:133730371:A	Longitudinal	11	9	133730371	A	G	0.9996638	0.0002428	53539	13	0
LTX013_101858	LTX013:12:62946929:C	Longitudinal	11	12	62946929	C	T	0.9997041	0.0002262	57460	13	0
LTX013_101858	LTX013:7:81689802:G	Longitudinal	11	7	81689802	G	T	0.9995109	0	57249	0	0
LTX013_101858	LTX013:17:58147166:G	Longitudinal	11	17	58147166	G	T	0.9995316	0	44832	0	0
LTX013_101858	LTX013:14:74988688:C	Longitudinal	11	14	74988688	C	T	0.9996589	0.0003232	55696	18	0
LTX013_101858	LTX013:2:152403968:C	Longitudinal	11	2	152403968	C	T	0.9993315	0.0005849	71802	42	0
LTX013_101858	LTX013:6:50791266:G	Longitudinal	11	6	50791266	G	T	0.9993	0	2857	0	0
LTX013_101858	LTX013:X:114141751:C	Longitudinal	11	23	114141751	C	T	0.9993764	0.0006236	32070	20	0
LTX013_101858	LTX013:X:117044028:C	Longitudinal	11	23	117044028	C	T	0.9994727	0.0004653	32238	15	0
LTX013_101858	LTX013:X:150348926:G	Longitudinal	11	23	150348926	G	A	0.9996771	0.0002906	30974	9	0
LTX013_108058	LTX013:5:15937258:G	Longitudinal	11	5	15937258	G	A	0.9997532	0.0002468	44570	11	0
LTX013_108058	LTX013:3:183994479:T	Longitudinal	11	3	183994479	T	C	0.9996505	0.0003203	34338	11	0
LTX013_108058	LTX013:15:48722904:C	Longitudinal	11	15	48722904	C	T	0.9995172	0.0004517	64206	29	0
LTX013_108058	LTX013:10:105147056:C	Longitudinal	11	10	105147056	C	T	0.9993395	0.000516	48448	25	0
LTX013_108058	LTX013:3:19384197:A	Longitudinal	11	3	19384197	A	T	0.9996247	0	39967	0	0
LTX013_108058	LTX013:8:38205421:T	Longitudinal	11	8	38205421	T	A	0.9997993	0	49826	0	0
LTX013_108058	LTX013:7:97911732:C	Longitudinal	11	7	97911732	C	G	0.9998284	0	23313	0	0
LTX013_108058	LTX013:22:33733721:G	Longitudinal	11	22	33733721	G	C	0.9995471	0.0001359	44160	6	1
LTX013_108058	LTX013:6:127768763:T	Longitudinal	11	6	127768763	T	A	0.9995902	0.0001171	34159	4	0

LTX013_108058	LTX013:3:17109481:G	Longitudinal	11	3	17109481	G	A	0.9994853	0.0004751	50515	24	0
LTX013_108058	LTX013:1:158724752:C	Longitudinal	11	1	158724752	C	G	0.9995972	0	37240	0	0
LTX013_108058	LTX013:17:18154751:C	Longitudinal	11	17	18154751	C	T	0.9997103	0.0002897	10355	3	0
LTX013_108058	LTX013:2:158617532:C	Longitudinal	11	2	158617532	C	T	0.9997066	0.0002934	57933	17	0
LTX013_108058	LTX013:9:131707989:G	Longitudinal	11	9	131707989	G	C	0.9998602	1.553E-05	64373	1	0
LTX013_108058	LTX013:16:29706404:C	Longitudinal	11	16	29706404	C	T	0.998779	0.001221	2457	3	0
LTX013_108058	LTX013:2:228771939:G	Longitudinal	11	2	228771939	G	C	0.9997381	0	45823	0	0
LTX013_108058	LTX013:9:19786223:G	Longitudinal	11	9	19786223	G	T	0.9998633	0	51220	0	0
LTX013_108058	LTX013:14:31592236:G	Longitudinal	11	14	31592236	G	A	0.9989211	0.0010221	35222	36	0
LTX013_108058	LTX013:11:55861287:C	Longitudinal	11	11	55861287	C	A	0.999721	0	39427	0	0
LTX013_108058	LTX013:9:133730371:A	Longitudinal	11	9	133730371	A	G	0.9997959	0.0001633	49001	8	0
LTX013_108058	LTX013:12:62946929:C	Longitudinal	11	12	62946929	C	T	0.999584	0.0003236	43268	14	0
LTX013_108058	LTX013:7:81689802:G	Longitudinal	11	7	81689802	G	T	0.9996619	0	44370	0	0
LTX013_108058	LTX013:17:58147166:G	Longitudinal	11	17	58147166	G	T	0.9993581	8.372E-05	35833	3	0
LTX013_108058	LTX013:14:74988688:C	Longitudinal	11	14	74988688	C	T	0.998989	0.001011	54402	55	0
LTX013_108058	LTX013:2:152403968:C	Longitudinal	11	2	152403968	C	T	0.9994063	0.0005762	57272	33	0
LTX013_108058	LTX013:6:50791266:G	Longitudinal	11	6	50791266	G	T	0.9984911	0	2651	0	0
LTX013_108058	LTX013:X:114141751:C	Longitudinal	11	23	114141751	C	T	0.9994816	0.0005184	25078	13	0
LTX013_108058	LTX013:X:117044028:C	Longitudinal	11	23	117044028	C	T	0.9991825	0.0008175	24466	20	0
LTX013_108058	LTX013:X:150348926:G	Longitudinal	11	23	150348926	G	A	0.9994998	0.0004585	23990	11	0
LTX013_121194	LTX013:5:15937258:G	Longitudinal	11	5	15937258	G	A	0.9992086	0.0007255	45488	33	0
LTX013_121194	LTX013:3:183994479:T	Longitudinal	11	3	183994479	T	C	0.9992699	0.0006969	30134	21	1
LTX013_121194	LTX013:15:48722904:C	Longitudinal	11	15	48722904	C	T	0.998727	0.0012453	72269	90	1
LTX013_121194	LTX013:10:105147056:C	Longitudinal	11	10	105147056	C	T	0.9993567	0.0005737	57518	33	0
LTX013_121194	LTX013:3:19384197:A	Longitudinal	11	3	19384197	A	T	0.9993806	0.0002684	48436	13	1
LTX013_121194	LTX013:8:38205421:T	Longitudinal	11	8	38205421	T	A	0.9996395	9.011E-05	55485	5	0
LTX013_121194	LTX013:7:97911732:C	Longitudinal	11	7	97911732	C	G	0.9996483	5.024E-05	19903	1	0
LTX013_121194	LTX013:22:33733721:G	Longitudinal	11	22	33733721	G	C	0.9994778	0	45962	0	0
LTX013_121194	LTX013:6:127768763:T	Longitudinal	11	6	127768763	T	A	0.9987466	0.00104	37499	39	1
LTX013_121194	LTX013:3:17109481:G	Longitudinal	11	3	17109481	G	A	0.9989052	0.0010606	58456	62	1
LTX013_121194	LTX013:1:158724752:C	Longitudinal	11	1	158724752	C	G	0.9994446	0.000303	39609	12	1
LTX013_121194	LTX013:17:18154751:C	Longitudinal	11	17	18154751	C	T	0.9986181	0.0013819	8684	12	0
LTX013_121194	LTX013:2:158617532:C	Longitudinal	11	2	158617532	C	T	0.9993565	0.0006435	62163	40	0
LTX013_121194	LTX013:9:131707989:G	Longitudinal	11	9	131707989	G	C	0.9996122	0	69632	0	0
LTX013_121194	LTX013:16:29706404:C	Longitudinal	11	16	29706404	C	T	0.999316	0.000684	1462	1	0
LTX013_121194	LTX013:2:228771939:G	Longitudinal	11	2	228771939	G	C	0.9995902	0	51242	0	0
LTX013_121194	LTX013:9:19786223:G	Longitudinal	11	9	19786223	G	T	0.9997318	3.576E-05	55932	2	0
LTX013_121194	LTX013:14:31592236:G	Longitudinal	11	14	31592236	G	A	0.9995382	0.0003849	38976	15	0

LTX013_121194	LTX013:11:55861287:C	Longitudinal	11	11	55861287	C	A	0.9997162	0	45805	0	0
LTX013_121194	LTX013:9:133730371:A	Longitudinal	11	9	133730371	A	G	0.9998946	8.432E-05	47439	4	0
LTX013_121194	LTX013:12:62946929:C	Longitudinal	11	12	62946929	C	T	0.9998491	0.0001509	53005	8	0
LTX013_121194	LTX013:7:81689802:G	Longitudinal	11	7	81689802	G	T	0.999399	0.0003102	51583	16	1
LTX013_121194	LTX013:17:58147166:G	Longitudinal	11	17	58147166	G	T	0.9996892	0	38613	0	0
LTX013_121194	LTX013:14:74988688:C	Longitudinal	11	14	74988688	C	T	0.9995779	0.0003799	47378	18	0
LTX013_121194	LTX013:2:152403968:C	Longitudinal	11	2	152403968	C	T	0.9992209	0.0007791	61608	48	0
LTX013_121194	LTX013:6:50791266:G	Longitudinal	11	6	50791266	G	T	0.9992293	0.0003854	2595	1	1
LTX013_121194	LTX013:X:114141751:C	Longitudinal	11	23	114141751	C	T	0.9989253	0.0009635	26985	26	0
LTX013_121194	LTX013:X:117044028:C	Longitudinal	11	23	117044028	C	T	0.999416	0.000584	27399	16	0
LTX013_121194	LTX013:X:150348926:G	Longitudinal	11	23	150348926	G	A	0.9996084	0.0003524	25536	9	0
LTX028_106562	LTX028:16:11000781:G	Longitudinal	11	16	11000781	G	A	0.9994521	0.0005205	36502	19	0
LTX028_106562	LTX028:18:22804610:C	Longitudinal	11	18	22804610	C	G	0.9995927	0	51561	0	0
LTX028_106562	LTX028:1:238053905:C	Longitudinal	11	1	238053905	C	G	0.9997382	0	64926	0	0
LTX028_106562	LTX028:16:27454289:C	Longitudinal	11	16	27454289	C	A	0.9995525	3.891E-05	51396	2	0
LTX028_106562	LTX028:6:117638319:G	Longitudinal	11	6	117638319	G	A	0.9995659	0.0003947	50676	20	0
LTX028_106562	LTX028:19:56896362:T	Longitudinal	11	19	56896362	T	A	0.9997651	5.873E-05	51078	3	0
LTX028_106562	LTX028:19:38942485:A	Longitudinal	11	19	38942485	A	C	0.9999393	0	32955	0	0
LTX028_106562	LTX028:16:55705930:C	Longitudinal	11	16	55705930	C	G	0.9996382	0	30402	0	0
LTX028_106562	LTX028:10:22016857:G	Longitudinal	11	10	22016857	G	T	0.9993279	0	53562	0	0
LTX028_106562	LTX028:1:153658292:A	Longitudinal	11	1	153658292	A	T	0.9999841	0	62959	0	0
LTX028_106562	LTX028:10:12139797:C	Longitudinal	11	10	12139797	C	G	0.9997027	0	53823	0	0
LTX028_106562	LTX028:11:5969433:T	Longitudinal	11	11	5969433	T	G	0.9995409	0	74060	0	0
LTX028_106562	LTX028:6:170592441:G	Longitudinal	11	6	170592441	G	T	0.9995467	0	37499	0	0
LTX028_106562	LTX028:1:43904447:A	Longitudinal	11	1	43904447	A	C	0.9998561	0	48653	0	0
LTX028_106562	LTX028:6:27879686:G	Longitudinal	11	6	27879686	G	C	0.9996048	0	70855	0	0
LTX028_106562	LTX028:18:21957404:C	Longitudinal	11	18	21957404	C	A	0.9996469	5.575E-05	53808	3	0
LTX028_106562	LTX028:1:237817673:A	Longitudinal	11	1	237817673	A	T	0.9997235	1.843E-05	54259	1	0
LTX028_106562	LTX028:10:21823709:G	Longitudinal	11	10	21823709	G	T	1	0	3184	0	0
LTX028_106562	LTX028:18:10696430:A	Longitudinal	11	18	10696430	A	T	0.9993249	0.0001688	47398	8	0
LTX028_101730	LTX028:16:11000781:G	Longitudinal	11	16	11000781	G	A	0.9993789	0.0006211	37032	23	0
LTX028_101730	LTX028:18:22804610:C	Longitudinal	11	18	22804610	C	G	0.9996417	0	47444	0	0
LTX028_101730	LTX028:1:238053905:C	Longitudinal	11	1	238053905	C	G	0.9996809	0	62668	0	0
LTX028_101730	LTX028:16:27454289:C	Longitudinal	11	16	27454289	C	A	0.9995687	0	46372	0	0
LTX028_101730	LTX028:6:117638319:G	Longitudinal	11	6	117638319	G	A	0.9998539	0.0001461	47912	7	0
LTX028_101730	LTX028:19:56896362:T	Longitudinal	11	19	56896362	T	A	0.999915	2.125E-05	47057	1	0
LTX028_101730	LTX028:19:38942485:A	Longitudinal	11	19	38942485	A	C	0.9997651	0	34059	0	0
LTX028_101730	LTX028:16:55705930:C	Longitudinal	11	16	55705930	C	G	0.9998143	3.095E-05	32307	1	0

LTX028_101730	LTX028:10:22016857:G	Longitudinal	11	10	22016857	G	T	0.9996066	0	50837	0	0
LTX028_101730	LTX028:1:153658292:A	Longitudinal	11	1	153658292	A	T	0.9999654	0	57739	0	0
LTX028_101730	LTX028:10:12139797:C	Longitudinal	11	10	12139797	C	G	0.9997821	0	50475	0	0
LTX028_101730	LTX028:11:5969433:T	Longitudinal	11	11	5969433	T	G	0.9992804	0	70873	0	0
LTX028_101730	LTX028:6:170592441:G	Longitudinal	11	6	170592441	G	T	0.9998606	0	35861	0	0
LTX028_101730	LTX028:1:43904447:A	Longitudinal	11	1	43904447	A	C	0.9998241	0	45487	0	0
LTX028_101730	LTX028:6:27879686:G	Longitudinal	11	6	27879686	G	C	0.9993839	0	66545	0	0
LTX028_101730	LTX028:18:21957404:C	Longitudinal	11	18	21957404	C	A	0.9997304	4.148E-05	48214	2	0
LTX028_101730	LTX028:1:237817673:A	Longitudinal	11	1	237817673	A	T	0.9998218	3.96E-05	50505	2	0
LTX028_101730	LTX028:10:21823709:G	Longitudinal	11	10	21823709	G	T	0.9996543	0.0003457	2893	1	1
LTX028_101730	LTX028:18:10696430:A	Longitudinal	11	18	10696430	A	T	0.9992761	6.032E-05	49733	3	0
LTX028_101872	LTX028:16:11000781:G	Longitudinal	11	16	11000781	G	A	0.9997222	0.0002604	57598	15	0
LTX028_101872	LTX028:18:22804610:C	Longitudinal	11	18	22804610	C	G	0.999731	0	66908	0	0
LTX028_101872	LTX028:1:238053905:C	Longitudinal	11	1	238053905	C	G	0.9994185	1.211E-05	82547	1	0
LTX028_101872	LTX028:16:27454289:C	Longitudinal	11	16	27454289	C	A	0.999502	1.383E-05	72288	1	0
LTX028_101872	LTX028:6:117638319:G	Longitudinal	11	6	117638319	G	A	0.9994333	0.0005667	65291	37	0
LTX028_101872	LTX028:19:56896362:T	Longitudinal	11	19	56896362	T	A	0.9997439	0	62467	0	0
LTX028_101872	LTX028:19:38942485:A	Longitudinal	11	19	38942485	A	C	0.9998715	0	54460	0	0
LTX028_101872	LTX028:16:55705930:C	Longitudinal	11	16	55705930	C	G	0.9997327	0	56119	0	0
LTX028_101872	LTX028:10:22016857:G	Longitudinal	11	10	22016857	G	T	0.9995377	0	69226	0	0
LTX028_101872	LTX028:1:153658292:A	Longitudinal	11	1	153658292	A	T	0.9998379	2.494E-05	80205	2	0
LTX028_101872	LTX028:10:12139797:C	Longitudinal	11	10	12139797	C	G	0.9998001	0	70048	0	0
LTX028_101872	LTX028:11:5969433:T	Longitudinal	11	11	5969433	T	G	0.9994985	0	89731	0	0
LTX028_101872	LTX028:6:170592441:G	Longitudinal	11	6	170592441	G	T	0.9997043	0	57497	0	0
LTX028_101872	LTX028:1:43904447:A	Longitudinal	11	1	43904447	A	C	0.9999087	0	65697	0	0
LTX028_101872	LTX028:6:27879686:G	Longitudinal	11	6	27879686	G	C	0.9996846	2.175E-05	91951	2	0
LTX028_101872	LTX028:18:21957404:C	Longitudinal	11	18	21957404	C	A	0.9997276	3.204E-05	62414	2	0
LTX028_101872	LTX028:1:237817673:A	Longitudinal	11	1	237817673	A	T	0.9997477	4.452E-05	67384	3	0
LTX028_101872	LTX028:10:21823709:G	Longitudinal	11	10	21823709	G	T	0.9995942	0	4928	0	0
LTX028_101872	LTX028:18:10696430:A	Longitudinal	11	18	10696430	A	T	0.9993769	7.418E-05	67407	5	0
LTX041_104052	LTX041:12:7636270:G	Longitudinal	12	12	7636270	G	T	0.9997554	0	44970	0	0
LTX041_104052	LTX041:14:42360563:C	Longitudinal	12	14	42360563	C	G	0.9997297	0	55504	0	0
LTX041_104052	LTX041:8:2037930:G	Longitudinal	12	8	2037930	G	C	0.9998639	0	36735	0	0
LTX041_104052	LTX041:12:25398285:C	Longitudinal	12	12	25398285	C	A	0.9993942	0.0002507	47874	12	0
LTX041_104052	LTX041:4:153245455:C	Longitudinal	12	4	153245455	C	A	0.9995412	1.995E-05	50136	1	0
LTX041_104052	LTX041:4:134073671:C	Longitudinal	12	4	134073671	C	G	0.9997255	0	40068	0	0
LTX041_104052	LTX041:9:121929855:T	Longitudinal	12	9	121929855	T	A	0.9996645	3.728E-05	53648	2	0
LTX041_104052	LTX041:7:132193121:G	Longitudinal	12	7	132193121	G	C	0.9996413	0	52972	0	0

LTX041_104052	LTX041:5:140719553:G	Longitudinal	12	5	140719553	G	T	0.9996681	2.886E-05	69303	2	0
LTX041_104052	LTX041:2:79348040:C	Longitudinal	12	2	79348040	C	A	0.9997592	0	62304	0	0
LTX041_104052	LTX041:1:197390985:G	Longitudinal	12	1	197390985	G	C	0.9996982	0	56327	0	0
LTX041_104052	LTX041:11:111229553:C	Longitudinal	12	11	111229553	C	A	0.9996211	0	31668	0	0
LTX041_104052	LTX041:11:73716819:T	Longitudinal	12	11	73716819	T	A	0.9996234	0.0001329	45139	6	0
LTX041_104052	LTX041:16:15844020:C	Longitudinal	12	16	15844020	C	T	0.9997322	0.0002472	48535	12	0
LTX041_104052	LTX041:11:123625083:C	Longitudinal	12	11	123625083	C	A	0.9996906	3.094E-05	64633	2	0
LTX041_104052	LTX041:10:104857113:G	Longitudinal	12	10	104857113	G	C	0.9997194	2.158E-05	46330	1	0
LTX041_104052	LTX041:11:85733463:C	Longitudinal	12	11	85733463	C	G	0.9997976	0	34592	0	0
LTX041_104052	LTX041:16:68023965:C	Longitudinal	12	16	68023965	C	A	0.9996821	3.974E-05	50328	2	0
LTX041_104052	LTX041:16:4896197:C	Longitudinal	12	16	4896197	C	A	0.9996416	5.974E-05	33481	2	0
LTX041_104052	LTX041:8:97797441:G	Longitudinal	12	8	97797441	G	C	0.9995367	0	66909	0	0
LTX041_104052	LTX041:1:171761246:G	Longitudinal	12	1	171761246	G	T	0.9996569	0	46628	0	0
LTX041_104052	LTX041:14:105920600:G	Longitudinal	12	14	105920600	G	T	0.9997954	0	48877	0	0
LTX041_104052	LTX041:17:7579378:G	Longitudinal	12	17	7579378	G	T	0.9999076	0	21639	0	0
LTX041_104052	LTX041:1:150259318:G	Longitudinal	12	1	150259318	G	C	0.9997919	0	38434	0	0
LTX041_104052	LTX041:6:62390879:C	Longitudinal	12	6	62390879	C	A	0.9996659	2.784E-05	35914	1	0
LTX041_104052	LTX041:X:90691588:G	Longitudinal	12	23	90691588	G	T	0.9996687	0.0001242	24148	3	0
LTX165_109194	LTX165:17:7578457:C	Longitudinal	12	17	7578457	C	A	0.9995908	8.184E-05	24437	2	0
LTX165_109194	LTX165:4:153245381:T	Longitudinal	12	4	153245381	T	C	0.9999319	2.268E-05	44083	1	0
LTX165_109194	LTX165:14:31061546:G	Longitudinal	12	14	31061546	G	C	0.9997615	0	37728	0	0
LTX165_109194	LTX165:4:22394224:T	Longitudinal	12	4	22394224	T	A	0.9997939	0	53373	0	0
LTX165_109194	LTX165:13:32929041:G	Longitudinal	12	13	32929041	G	T	0.9995084	0	32549	0	0
LTX165_109194	LTX165:16:48174630:A	Longitudinal	12	16	48174630	A	T	0.9997017	4.589E-05	43578	2	0
LTX165_109194	LTX165:14:105518356:C	Longitudinal	12	14	105518356	C	T	0.9998448	0.0001552	32216	5	0
LTX165_109194	LTX165:10:6264869:C	Longitudinal	12	10	6264869	C	T	0.9992454	0.0002322	34454	8	0
LTX165_109194	LTX165:1:117644093:G	Longitudinal	12	1	117644093	G	A	0.9997886	0.0001691	70946	12	0
LTX165_109194	LTX165:11:72141386:G	Longitudinal	12	11	72141386	G	A	0.9993413	0.0006081	39469	24	0
LTX165_109194	LTX165:6:27858176:C	Longitudinal	12	6	27858176	C	G	0.9998209	0	22339	0	0
LTX165_109194	LTX165:19:11226802:C	Longitudinal	12	19	11226802	C	T	0.9995961	0.0003305	54470	18	0
LTX165_109194	LTX165:11:111228171:G	Longitudinal	12	11	111228171	G	A	0.9996426	0.0003404	58759	20	0
LTX165_109194	LTX165:4:106880244:G	Longitudinal	12	4	106880244	G	A	0.9997347	0.0002653	41470	11	0
LTX165_109194	LTX165:11:30433103:G	Longitudinal	12	11	30433103	G	T	0.9997738	0	48633	0	0
LTX165_109194	LTX165:18:10784905:C	Longitudinal	12	18	10784905	C	T	0.9995454	0.0004356	52796	23	0
LTX165_109194	LTX165:10:28224075:G	Longitudinal	12	10	28224075	G	C	0.4787076	0	57133	0	0
LTX165_115902	LTX165:17:7578457:C	Longitudinal	12	17	7578457	C	A	0.9993005	4.115E-05	24303	1	0
LTX165_115902	LTX165:4:153245381:T	Longitudinal	12	4	153245381	T	C	0.9998861	8.136E-05	61452	5	0
LTX165_115902	LTX165:14:31061546:G	Longitudinal	12	14	31061546	G	C	0.9996214	0	52827	0	0

LTX165_115902	LTX165:4:22394224:T	Longitudinal	12	4	22394224	T	A	0.9997044	0	67657	0	0
LTX165_115902	LTX165:13:32929041:G	Longitudinal	12	13	32929041	G	T	0.9992844	0	46117	0	0
LTX165_115902	LTX165:16:48174630:A	Longitudinal	12	16	48174630	A	T	0.999809	0	57577	0	0
LTX165_115902	LTX165:14:105518356:C	Longitudinal	12	14	105518356	C	T	0.9996311	0.0003381	32531	11	0
LTX165_115902	LTX165:10:6264869:C	Longitudinal	12	10	6264869	C	T	0.9991978	0.0002865	34902	10	0
LTX165_115902	LTX165:1:117644093:G	Longitudinal	12	1	117644093	G	A	0.9997337	0.0002344	93863	22	0
LTX165_115902	LTX165:11:72141386:G	Longitudinal	12	11	72141386	G	A	0.9995886	0.0003722	51044	19	0
LTX165_115902	LTX165:6:27858176:C	Longitudinal	12	6	27858176	C	G	0.9995502	0	26676	0	0
LTX165_115902	LTX165:19:11226802:C	Longitudinal	12	19	11226802	C	T	0.9995628	0.0003935	68621	27	0
LTX165_115902	LTX165:11:111228171:G	Longitudinal	12	11	111228171	G	A	0.9994884	0.0004664	66461	31	0
LTX165_115902	LTX165:4:106880244:G	Longitudinal	12	4	106880244	G	A	0.9996278	0.0003214	59109	19	0
LTX165_115902	LTX165:11:30433103:G	Longitudinal	12	11	30433103	G	T	0.9995696	0	65049	0	0
LTX165_115902	LTX165:18:10784905:C	Longitudinal	12	18	10784905	C	T	0.9994588	0.0004857	72056	35	0
LTX165_115902	LTX165:10:28224075:G	Longitudinal	12	10	28224075	G	C	0.4967031	0	79013	0	0
LTX165_115755	LTX165:17:7578457:C	Longitudinal	12	17	7578457	C	A	0.9997583	3.452E-05	28966	1	0
LTX165_115755	LTX165:4:153245381:T	Longitudinal	12	4	153245381	T	C	0.9998235	0	45330	0	0
LTX165_115755	LTX165:14:31061546:G	Longitudinal	12	14	31061546	G	C	0.9995972	0	39718	0	0
LTX165_115755	LTX165:4:22394224:T	Longitudinal	12	4	22394224	T	A	0.9995194	0	52015	0	0
LTX165_115755	LTX165:13:32929041:G	Longitudinal	12	13	32929041	G	T	0.9995233	2.979E-05	33564	1	0
LTX165_115755	LTX165:16:48174630:A	Longitudinal	12	16	48174630	A	T	0.9996673	4.159E-05	48094	2	0
LTX165_115755	LTX165:14:105518356:C	Longitudinal	12	14	105518356	C	T	0.9997231	0.0002492	36119	9	0
LTX165_115755	LTX165:10:6264869:C	Longitudinal	12	10	6264869	C	T	0.9990159	0.0003367	38615	13	0
LTX165_115755	LTX165:1:117644093:G	Longitudinal	12	1	117644093	G	A	0.9998099	0.0001493	73657	11	0
LTX165_115755	LTX165:11:72141386:G	Longitudinal	12	11	72141386	G	A	0.9997347	0.0002432	45236	11	0
LTX165_115755	LTX165:6:27858176:C	Longitudinal	12	6	27858176	C	G	0.9995937	0	24611	0	0
LTX165_115755	LTX165:19:11226802:C	Longitudinal	12	19	11226802	C	T	0.9996617	0.0002255	62080	14	0
LTX165_115755	LTX165:11:111228171:G	Longitudinal	12	11	111228171	G	A	0.9995039	0.0004481	62487	28	0
LTX165_115755	LTX165:4:106880244:G	Longitudinal	12	4	106880244	G	A	0.9996542	0.0002997	43378	13	0
LTX165_115755	LTX165:11:30433103:G	Longitudinal	12	11	30433103	G	T	0.9994822	0	52142	0	0
LTX165_115755	LTX165:18:10784905:C	Longitudinal	12	18	10784905	C	T	0.9993043	0.0006244	56058	35	0
LTX165_115755	LTX165:10:28224075:G	Longitudinal	12	10	28224075	G	C	0.5011902	4.959E-05	60492	3	0
LTX165_109542	LTX165:17:7578457:C	Longitudinal	12	17	7578457	C	A	0.9996802	4.569E-05	21888	1	0
LTX165_109542	LTX165:4:153245381:T	Longitudinal	12	4	153245381	T	C	0.9998145	0.0001237	48520	6	0
LTX165_109542	LTX165:14:31061546:G	Longitudinal	12	14	31061546	G	C	0.9997524	0	40383	0	0
LTX165_109542	LTX165:4:22394224:T	Longitudinal	12	4	22394224	T	A	0.9997794	1.697E-05	58929	1	0
LTX165_109542	LTX165:13:32929041:G	Longitudinal	12	13	32929041	G	T	0.9990039	8.301E-05	36140	3	0
LTX165_109542	LTX165:16:48174630:A	Longitudinal	12	16	48174630	A	T	0.9997464	4.227E-05	47318	2	0
LTX165_109542	LTX165:14:105518356:C	Longitudinal	12	14	105518356	C	T	0.9998015	0.0001985	30224	6	0

LTX165_109542	LTX165:10:6264869:C	Longitudinal	12	10	6264869	C	T	0.9988066	0.0002652	30167	8	0
LTX165_109542	LTX165:1:117644093:G	Longitudinal	12	1	117644093	G	A	0.9997226	0.0002774	82916	23	0
LTX165_109542	LTX165:11:72141386:G	Longitudinal	12	11	72141386	G	A	0.9997158	0.0001895	42225	8	0
LTX165_109542	LTX165:6:27858176:C	Longitudinal	12	6	27858176	C	G	0.9995623	0	31986	0	0
LTX165_109542	LTX165:19:11226802:C	Longitudinal	12	19	11226802	C	T	0.999652	0.0002707	51725	14	0
LTX165_109542	LTX165:11:111228171:G	Longitudinal	12	11	111228171	G	A	0.9994983	0.0004683	59796	28	0
LTX165_109542	LTX165:4:106880244:G	Longitudinal	12	4	106880244	G	A	0.9996524	0.0003042	46026	14	0
LTX165_109542	LTX165:11:30433103:G	Longitudinal	12	11	30433103	G	T	0.9995219	1.771E-05	56469	1	0
LTX165_109542	LTX165:18:10784905:C	Longitudinal	12	18	10784905	C	T	0.9995325	0.0003809	57758	22	0
LTX165_109542	LTX165:10:28224075:G	Longitudinal	12	10	28224075	G	C	0.4903778	0.0001446	62252	9	0
LTX175_101763	LTX175:7:154862800:C	Longitudinal	12	7	154862800	C	G	0.9999311	0	14511	0	0
LTX175_101763	LTX175:4:88583579:A	Longitudinal	12	4	88583579	A	T	0.9995898	8.918E-05	56064	5	0
LTX175_101763	LTX175:17:7577570:C	Longitudinal	12	17	7577570	C	T	0.9996668	0.0003076	39018	12	0
LTX175_101763	LTX175:13:28588650:C	Longitudinal	12	13	28588650	C	A	0.9993965	0	59648	0	0
LTX175_101763	LTX175:2:86831307:C	Longitudinal	12	2	86831307	C	A	0.99978	0	54534	0	0
LTX175_101763	LTX175:19:47424731:C	Longitudinal	12	19	47424731	C	G	0.9996388	3.01E-05	33218	1	0
LTX175_101763	LTX175:2:185803525:A	Longitudinal	12	2	185803525	A	T	0.9999096	1.807E-05	55339	1	0
LTX175_101763	LTX175:1:110740757:C	Longitudinal	12	1	110740757	C	G	0.9996561	0	40706	0	0
LTX175_101763	LTX175:16:77918598:G	Longitudinal	12	16	77918598	G	T	0.9996855	0	54058	0	0
LTX175_101763	LTX175:17:67029876:T	Longitudinal	12	17	67029876	T	G	0.9999776	0	44593	0	0
LTX175_101763	LTX175:1:183093996:G	Longitudinal	12	1	183093996	G	C	0.9996227	0	60954	0	0
LTX175_101763	LTX175:17:32597315:A	Longitudinal	12	17	32597315	A	C	0.9996347	0	52017	0	0
LTX175_101763	LTX175:9:123920070:G	Longitudinal	12	9	123920070	G	A	0.9997066	0.0002934	37488	11	0
LTX175_101763	LTX175:2:50779932:A	Longitudinal	12	2	50779932	A	C	0.9997864	0	56170	0	0
LTX175_101763	LTX175:14:20779849:C	Longitudinal	12	14	20779849	C	T	0.9997215	0.0002475	32317	8	0
LTX175_101763	LTX175:15:88727481:C	Longitudinal	12	15	88727481	C	T	0.9997492	0.0002508	47853	12	0
LTX175_101763	LTX175:4:37447137:G	Longitudinal	12	4	37447137	G	T	0.9997196	0	74889	0	0
LTX175_101763	LTX175:4:92520188:C	Longitudinal	12	4	92520188	C	A	0.9996818	0	56573	0	0
LTX175_101763	LTX175:7:121652018:A	Longitudinal	12	7	121652018	A	C	0.9999131	0	69050	0	0
LTX175_101763	LTX175:17:72610163:G	Longitudinal	12	17	72610163	G	T	0.9996453	0	42285	0	0
LTX175_101763	LTX175:2:44556189:T	Longitudinal	12	2	44556189	T	G	0.9994643	0	52265	0	0
LTX175_101763	LTX175:12:109865278:A	Longitudinal	12	12	109865278	A	C	0.9998969	0	29106	0	0
LTX175_101763	LTX175:9:93636537:T	Longitudinal	12	9	93636537	T	C	0.9995327	0.0004029	62053	25	0
LTX175_101763	LTX175:5:9190458:G	Longitudinal	12	5	9190458	G	T	0.9995999	2.858E-05	34995	1	0
LTX175_101763	LTX175:2:54147457:G	Longitudinal	12	2	54147457	G	T	0.9996862	1.846E-05	54172	1	0
LTX175_101763	LTX175:8:77776619:A	Longitudinal	12	8	77776619	A	C	0.999854	0	47960	0	0
LTX175_101763	LTX175:12:53070879:C	Longitudinal	12	12	53070879	C	G	0.9997725	0	65929	0	0
LTX175_101763	LTX175:19:47424497:C	Longitudinal	12	19	47424497	C	G	0.9993719	0	60496	0	0

LTX175_101763	LTX175:7:151878287:G	Longitudinal	12	7	151878287	G	A	0.9996088	0.0003772	71574	27	0
LTX175_121320	LTX175:7:154862800:C	Longitudinal	12	7	154862800	C	G	1	0	12851	0	0
LTX175_121320	LTX175:4:88583579:A	Longitudinal	12	4	88583579	A	T	0.9997194	4.009E-05	49886	2	0
LTX175_121320	LTX175:17:7577570:C	Longitudinal	12	17	7577570	C	T	0.9997411	0.0002589	34769	9	0
LTX175_121320	LTX175:13:28588650:C	Longitudinal	12	13	28588650	C	A	0.9993718	0	52533	0	0
LTX175_121320	LTX175:2:86831307:C	Longitudinal	12	2	86831307	C	A	0.99925	4.054E-05	49333	2	0
LTX175_121320	LTX175:19:47424731:C	Longitudinal	12	19	47424731	C	G	0.9998148	0	27000	0	0
LTX175_121320	LTX175:2:185803525:A	Longitudinal	12	2	185803525	A	T	0.9998131	2.076E-05	48159	1	0
LTX175_121320	LTX175:1:110740757:C	Longitudinal	12	1	110740757	C	G	0.9995135	0	36997	0	0
LTX175_121320	LTX175:16:77918598:G	Longitudinal	12	16	77918598	G	T	0.999837	0	49082	0	0
LTX175_121320	LTX175:17:67029876:T	Longitudinal	12	17	67029876	T	G	0.9999734	0	37582	0	0
LTX175_121320	LTX175:1:183093996:G	Longitudinal	12	1	183093996	G	C	0.9995614	1.907E-05	52439	1	0
LTX175_121320	LTX175:17:32597315:A	Longitudinal	12	17	32597315	A	C	0.9995578	2.211E-05	45225	1	0
LTX175_121320	LTX175:9:123920070:G	Longitudinal	12	9	123920070	G	A	0.9996488	0.0002927	34165	10	0
LTX175_121320	LTX175:2:50779932:A	Longitudinal	12	2	50779932	A	C	0.9997742	2.053E-05	48712	1	0
LTX175_121320	LTX175:14:20779849:C	Longitudinal	12	14	20779849	C	T	0.9996693	0.0003307	27215	9	0
LTX175_121320	LTX175:15:88727481:C	Longitudinal	12	15	88727481	C	T	0.9997259	0.0002513	43773	11	0
LTX175_121320	LTX175:4:37447137:G	Longitudinal	12	4	37447137	G	T	0.9997691	0	64962	0	0
LTX175_121320	LTX175:4:92520188:C	Longitudinal	12	4	92520188	C	A	0.9997519	0	52392	0	0
LTX175_121320	LTX175:7:121652018:A	Longitudinal	12	7	121652018	A	C	0.9998021	0	60634	0	0
LTX175_121320	LTX175:17:72610163:G	Longitudinal	12	17	72610163	G	T	0.9993323	0	37443	0	0
LTX175_121320	LTX175:2:44556189:T	Longitudinal	12	2	44556189	T	G	0.9994476	4.249E-05	47071	2	0
LTX175_121320	LTX175:12:109865278:A	Longitudinal	12	12	109865278	A	C	0.999881	0	25200	0	0
LTX175_121320	LTX175:9:93636537:T	Longitudinal	12	9	93636537	T	C	0.9997286	0.0002533	55260	14	0
LTX175_121320	LTX175:5:9190458:G	Longitudinal	12	5	9190458	G	T	0.9997171	0	31809	0	0
LTX175_121320	LTX175:2:54147457:G	Longitudinal	12	2	54147457	G	T	0.9993336	0	46517	0	0
LTX175_121320	LTX175:8:77776619:A	Longitudinal	12	8	77776619	A	C	0.9998424	0	44414	0	0
LTX175_121320	LTX175:12:53070879:C	Longitudinal	12	12	53070879	C	G	0.999688	0	60896	0	0
LTX175_121320	LTX175:19:47424497:C	Longitudinal	12	19	47424497	C	G	0.999446	0	50541	0	0
LTX175_121320	LTX175:7:151878287:G	Longitudinal	12	7	151878287	G	A	0.9995736	0.0003633	63316	23	0
LTX175_121146	LTX175:7:154862800:C	Longitudinal	12	7	154862800	C	G	0.9994926	0	11824	0	0
LTX175_121146	LTX175:4:88583579:A	Longitudinal	12	4	88583579	A	T	0.9997928	0	57902	0	0
LTX175_121146	LTX175:17:7577570:C	Longitudinal	12	17	7577570	C	T	0.9995136	0.0004517	28781	13	0
LTX175_121146	LTX175:13:28588650:C	Longitudinal	12	13	28588650	C	A	0.9997246	0	39944	0	0
LTX175_121146	LTX175:2:86831307:C	Longitudinal	12	2	86831307	C	A	0.9998054	2.162E-05	46244	1	0
LTX175_121146	LTX175:19:47424731:C	Longitudinal	12	19	47424731	C	G	0.9996687	0	15094	0	0
LTX175_121146	LTX175:2:185803525:A	Longitudinal	12	2	185803525	A	T	1	0	36874	0	0
LTX175_121146	LTX175:1:110740757:C	Longitudinal	12	1	110740757	C	G	0.9993044	0	43130	0	0

LTX175_121146	LTX175:16:77918598:G	Longitudinal	12	16	77918598	G	T	0.9998726	0	31389	0	0
LTX175_121146	LTX175:17:67029876:T	Longitudinal	12	17	67029876	T	G	0.9999629	0	26943	0	0
LTX175_121146	LTX175:1:183093996:G	Longitudinal	12	1	183093996	G	C	0.9997299	2.701E-05	37027	1	0
LTX175_121146	LTX175:17:32597315:A	Longitudinal	12	17	32597315	A	C	0.9996706	0	48576	0	0
LTX175_121146	LTX175:9:123920070:G	Longitudinal	12	9	123920070	G	A	0.9997808	0.0002192	18252	4	0
LTX175_121146	LTX175:2:50779932:A	Longitudinal	12	2	50779932	A	C	0.9998403	0	37573	0	0
LTX175_121146	LTX175:14:20779849:C	Longitudinal	12	14	20779849	C	T	0.9998153	0.0001847	16244	3	0
LTX175_121146	LTX175:15:88727481:C	Longitudinal	12	15	88727481	C	T	0.9997234	0.0002766	36151	10	0
LTX175_121146	LTX175:4:37447137:G	Longitudinal	12	4	37447137	G	T	0.9997816	0	50375	0	0
LTX175_121146	LTX175:4:92520188:C	Longitudinal	12	4	92520188	C	A	0.9997234	0	47000	0	0
LTX175_121146	LTX175:7:121652018:A	Longitudinal	12	7	121652018	A	C	0.9999606	0	50707	0	0
LTX175_121146	LTX175:17:72610163:G	Longitudinal	12	17	72610163	G	T	0.9996808	0	28199	0	0
LTX175_121146	LTX175:2:44556189:T	Longitudinal	12	2	44556189	T	G	0.99988	0	41669	0	0
LTX175_121146	LTX175:12:109865278:A	Longitudinal	12	12	109865278	A	C	0.9999531	0	21320	0	0
LTX175_121146	LTX175:9:93636537:T	Longitudinal	12	9	93636537	T	C	0.9998187	0.0001587	44121	7	0
LTX175_121146	LTX175:5:9190458:G	Longitudinal	12	5	9190458	G	T	0.9997076	0	27361	0	0
LTX175_121146	LTX175:2:54147457:G	Longitudinal	12	2	54147457	G	T	0.9998386	2.69E-05	37176	1	0
LTX175_121146	LTX175:8:77776619:A	Longitudinal	12	8	77776619	A	C	0.9999754	0	40625	0	0
LTX175_121146	LTX175:12:53070879:C	Longitudinal	12	12	53070879	C	G	0.9996532	2.04E-05	49016	1	0
LTX175_121146	LTX175:19:47424497:C	Longitudinal	12	19	47424497	C	G	0.999747	0	35576	0	0
LTX175_121146	LTX175:7:151878287:G	Longitudinal	12	7	151878287	G	A	0.9997723	0.0002277	57094	13	0
LTX175_101696	LTX175:7:154862800:C	Longitudinal	12	7	154862800	C	G	0.9994502	0	10914	0	0
LTX175_101696	LTX175:4:88583579:A	Longitudinal	12	4	88583579	A	T	0.999592	3.022E-05	66182	2	0
LTX175_101696	LTX175:17:7577570:C	Longitudinal	12	17	7577570	C	T	0.9998369	0.0001359	36793	5	0
LTX175_101696	LTX175:13:28588650:C	Longitudinal	12	13	28588650	C	A	0.999615	5.25E-05	57146	3	0
LTX175_101696	LTX175:2:86831307:C	Longitudinal	12	2	86831307	C	A	0.9995421	8.806E-05	56780	5	0
LTX175_101696	LTX175:19:47424731:C	Longitudinal	12	19	47424731	C	G	0.9997523	0	28258	0	0
LTX175_101696	LTX175:2:185803525:A	Longitudinal	12	2	185803525	A	T	0.999865	1.687E-05	59271	1	0
LTX175_101696	LTX175:1:110740757:C	Longitudinal	12	1	110740757	C	G	0.9997539	0	40636	0	0
LTX175_101696	LTX175:16:77918598:G	Longitudinal	12	16	77918598	G	T	0.9997888	0	52081	0	0
LTX175_101696	LTX175:17:67029876:T	Longitudinal	12	17	67029876	T	G	0.9998304	7.267E-05	41284	3	0
LTX175_101696	LTX175:1:183093996:G	Longitudinal	12	1	183093996	G	C	0.9997297	0	59197	0	0
LTX175_101696	LTX175:17:32597315:A	Longitudinal	12	17	32597315	A	C	0.9996326	2.161E-05	46275	1	0
LTX175_101696	LTX175:9:123920070:G	Longitudinal	12	9	123920070	G	A	0.9996913	0.0002573	38871	10	0
LTX175_101696	LTX175:2:50779932:A	Longitudinal	12	2	50779932	A	C	0.9997507	0	52156	0	0
LTX175_101696	LTX175:14:20779849:C	Longitudinal	12	14	20779849	C	T	0.9997732	0.000189	26451	5	0
LTX175_101696	LTX175:15:88727481:C	Longitudinal	12	15	88727481	C	T	0.999779	0.0002009	49767	10	0
LTX175_101696	LTX175:4:37447137:G	Longitudinal	12	4	37447137	G	T	0.9996858	1.428E-05	70026	1	0

LTX175_101696	LTX175:4:92520188:C	Longitudinal	12	4	92520188	C	A	0.9996081	1.781E-05	56141	1	0
LTX175_101696	LTX175:7:121652018:A	Longitudinal	12	7	121652018	A	C	0.9998482	0	65858	0	0
LTX175_101696	LTX175:17:72610163:G	Longitudinal	12	17	72610163	G	T	0.9996111	5.185E-05	38572	2	0
LTX175_101696	LTX175:2:44556189:T	Longitudinal	12	2	44556189	T	G	0.9997651	0	51080	0	0
LTX175_101696	LTX175:12:109865278:A	Longitudinal	12	12	109865278	A	C	0.9999652	0	28695	0	0
LTX175_101696	LTX175:9:93636537:T	Longitudinal	12	9	93636537	T	C	0.9997931	0.0002069	53158	11	0
LTX175_101696	LTX175:5:9190458:G	Longitudinal	12	5	9190458	G	T	0.9997076	0	34200	0	0
LTX175_101696	LTX175:2:54147457:G	Longitudinal	12	2	54147457	G	T	0.9997218	1.987E-05	50321	1	0
LTX175_101696	LTX175:8:77776619:A	Longitudinal	12	8	77776619	A	C	0.9999396	0	49673	0	0
LTX175_101696	LTX175:12:53070879:C	Longitudinal	12	12	53070879	C	G	0.99979	0	61905	0	0
LTX175_101696	LTX175:19:47424497:C	Longitudinal	12	19	47424497	C	G	0.999564	1.817E-05	55045	1	0
LTX175_101696	LTX175:7:151878287:G	Longitudinal	12	7	151878287	G	A	0.9996739	0.0002835	70536	20	0
LTX041	LTX041:12:7636270:G	Baseline	12	12	7636270	G	T	0.9997328	1.909E-05	52395	1	0
LTX041	LTX041:14:42360563:C	Baseline	12	14	42360563	C	G	0.9997247	1.721E-05	58114	1	0
LTX041	LTX041:8:2037930:G	Baseline	12	8	2037930	G	C	0.9997313	0	26049	0	0
LTX041	LTX041:12:25398285:C	Baseline	12	12	25398285	C	A	0.9993015	0.0003776	52972	20	0
LTX041	LTX041:4:153245455:C	Baseline	12	4	153245455	C	A	0.9995971	5.756E-05	52117	3	0
LTX041	LTX041:4:134073671:C	Baseline	12	4	134073671	C	G	0.9994021	3.986E-05	25088	1	0
LTX041	LTX041:9:121929855:T	Baseline	12	9	121929855	T	A	0.9996289	2.062E-05	48500	1	0
LTX041	LTX041:7:132193121:G	Baseline	12	7	132193121	G	C	0.999583	9.811E-05	40771	4	1
LTX041	LTX041:5:140719553:G	Baseline	12	5	140719553	G	T	0.9996758	7.781E-05	77110	6	0
LTX041	LTX041:2:79348040:C	Baseline	12	2	79348040	C	A	0.9997425	3.218E-05	62145	2	0
LTX041	LTX041:1:197390985:G	Baseline	12	1	197390985	G	C	0.9996784	2.01E-05	49749	1	0
LTX041	LTX041:11:111229553:C	Baseline	12	11	111229553	C	A	0.9993457	6.543E-05	15284	1	0
LTX041	LTX041:11:73716819:T	Baseline	12	11	73716819	T	A	0.9994964	0.0001259	23829	3	0
LTX041	LTX041:16:15844020:C	Baseline	12	16	15844020	C	T	0.9997472	0.0002107	23733	5	0
LTX041	LTX041:11:123625083:C	Baseline	12	11	123625083	C	A	0.9995118	9.153E-05	65551	6	0
LTX041	LTX041:10:104857113:G	Baseline	12	10	104857113	G	C	0.9996639	0	50580	0	0
LTX041	LTX041:11:85733463:C	Baseline	12	11	85733463	C	G	0.999807	5.514E-05	36274	2	0
LTX041	LTX041:16:68023965:C	Baseline	12	16	68023965	C	A	0.9992606	0.0005009	41925	21	1
LTX041	LTX041:16:4896197:C	Baseline	12	16	4896197	C	A	0.999463	3.159E-05	31658	1	0
LTX041	LTX041:8:97797441:G	Baseline	12	8	97797441	G	C	0.9997211	0	57371	0	0
LTX041	LTX041:1:171761246:G	Baseline	12	1	171761246	G	T	0.9996374	2.789E-05	35857	1	0
LTX041	LTX041:14:105920600:G	Baseline	12	14	105920600	G	T	0.9995657	2.286E-05	43745	1	0
LTX041	LTX041:17:7579378:G	Baseline	12	17	7579378	G	T	0.9996284	7.432E-05	13455	1	0
LTX041	LTX041:1:150259318:G	Baseline	12	1	150259318	G	C	0.9994893	2.688E-05	37203	1	0
LTX041	LTX041:6:62390879:C	Baseline	12	6	62390879	C	A	0.9996961	0	36195	0	0
LTX041	LTX041:X:90691588:G	Baseline	12	23	90691588	G	T	0.9989887	4.397E-05	22743	1	0

LTX049	LTX049:12:25398284:C	Baseline	12	12	25398284	C	A	0.989547	0.0004206	47546	20	0	
LTX049	LTX049:1:3313149:G	Baseline	12	1	3313149	G	T	0.9990957	0	14375	0	0	
LTX049	LTX049:8:32621405:C	Baseline	12	8	32621405	C	A	0.999765	0	25536	0	0	
LTX049	LTX049:19:11152100:A	Baseline	12	19	11152100	A	T	0.9999214	0	12723	0	0	
LTX049	LTX049:8:92982976:C	Baseline	12	8	92982976	C	A	0.9997293	0	11082	0	0	
LTX049	LTX049:1:78430869:C	Baseline	12	1	78430869	C	A	0.9994298	0	45597	0	0	
LTX049	LTX049:15:88680726:C	Baseline	12	15	88680726	C	A	0.9997419	0	34868	0	0	
LTX049	LTX049:20:51870588:G	Baseline	12	20	51870588	G	T	0.9996425	0	36365	0	0	
LTX049	LTX049:12:46244010:G	Baseline	12	12	46244010	G	C	0.9997904	0	62009	0	0	
LTX049	LTX049:2:155099384:C	Baseline	12	2	155099384	C	G	0.999733	1.907E-05	52430	1	0	
LTX049	LTX049:2:116520170:C	Baseline	12	2	116520170	C	G	0.9997276	0	55069	0	0	
LTX049	LTX049:7:123302365:T	Baseline	12	7	123302365	T	A	0.9997361	2.932E-05	34105	1	0	
LTX049	LTX049:2:189868155:G	Baseline	12	2	189868155	G	T	0.9997706	0	61018	0	0	
LTX049	LTX049:1:237804216:G	Baseline	12	1	237804216	G	T	0.9997978	1.685E-05	59341	1	0	
LTX049	LTX049:7:70597822:G	Baseline	12	7	70597822	G	C	0.9994998	0	15994	0	0	
LTX049	LTX049:11:16208424:G	Baseline	12	11	16208424	G	T	0.999709	1.819E-05	54977	1	0	
LTX049	LTX049:1:85331512:T	Baseline	12	1	85331512	T	A	0.9997452	6.949E-05	43172	3	0	
LTX049	LTX049:3:57457248:C	Baseline	12	3	57457248	C	A	0.9995466	0	30877	0	0	
LTX049	LTX049:9:13223601:G	Baseline	12	9	13223601	G	C	0.9997724	2.276E-05	43933	1	0	
LTX049	LTX049:1:248845376:G	Baseline	12	1	248845376	G	T	0.999159	0	42239	0	0	
LTX049	LTX049:21:47987434:G	Baseline	12	21	47987434	G	T	0.9998705	0	23163	0	0	
LTX049	LTX049:12:111953997:C	Baseline	12	12	111953997	C	A	0.9997653	0	17044	0	0	
LTX049	LTX049:3:128200113:G	Baseline	12	3	128200113	G	A	0.9996895	0.0003105	9662	3	0	
LTX049	LTX049:3:129370350:C	Baseline	12	3	129370350	C	G	0.9996227	3.773E-05	53010	2	0	
LTX049	LTX049:8:52323848:C	Baseline	12	8	52323848	C	A	0.9995901	0	34152	0	0	
LTX049	LTX049:17:72519788:C	Baseline	12	17	72519788	C	A	0.9997189	2.343E-05	42688	1	0	
LTX049	LTX049:19:10897345:C	Baseline	12	19	10897345	C	A	0.9993558	5.368E-05	18628	1	0	
LTX049	LTX049:8:9437749:C	Baseline	12	8	9437749	C	G	0.9995321	0	40608	0	0	
LTX049	LTX049:X:48547447:C	Baseline	12	23	48547447	C	A	0.9987392	0.0008158	13484	11	1	
LTX049	LTX049:X:76939413:T	Baseline	12	23	76939413	T	A	0.9997398	3.253E-05	61487	2	0	
LTX041_103852	LTX041:12:7636270:G	Longitudinal	12	12	7636270	G	T	0.9997346	0	52753	0	0	
LTX041_103852	LTX041:14:42360563:C	Longitudinal	12	14	42360563	C	G	0.9996888	0	64267	0	0	
LTX041_103852	LTX041:8:2037930:G	Longitudinal	12	8	2037930	G	C	0.9996469	0	42483	0	0	
LTX041_103852	LTX041:12:25398285:C	Longitudinal	12	12	25398285	C	A	0.9992213	0.0003186	56502	18	0	
LTX041_103852	LTX041:4:153245455:C	Longitudinal	12	4	153245455	C	A	0.9995887	5.141E-05	58355	3	0	
LTX041_103852	LTX041:4:134073671:C	Longitudinal	12	4	134073671	C	G	0.9996934	0	45669	0	0	
LTX041_103852	LTX041:9:121929855:T	Longitudinal	12	9	121929855	T	A	0.9996931	1.615E-05	61916	1	0	
LTX041_103852	LTX041:7:132193121:G	Longitudinal	12	7	132193121	G	C	0.9995558	0	60777	0	0	

LTX041_103852	LTX041:5:140719553:G	Longitudinal	12	5	140719553	G	T	0.9997948	1.282E-05	77982	1	0
LTX041_103852	LTX041:2:79348040:C	Longitudinal	12	2	79348040	C	A	0.9996202	0	71090	0	0
LTX041_103852	LTX041:1:197390985:G	Longitudinal	12	1	197390985	G	C	0.9997107	0	65671	0	0
LTX041_103852	LTX041:11:111229553:C	Longitudinal	12	11	111229553	C	A	0.9996847	2.866E-05	34889	1	0
LTX041_103852	LTX041:11:73716819:T	Longitudinal	12	11	73716819	T	A	0.9998038	0	50961	0	0
LTX041_103852	LTX041:16:15844020:C	Longitudinal	12	16	15844020	C	T	0.9997651	0.0001957	51090	10	0
LTX041_103852	LTX041:11:123625083:C	Longitudinal	12	11	123625083	C	A	0.9997386	2.614E-05	76519	2	0
LTX041_103852	LTX041:10:104857113:G	Longitudinal	12	10	104857113	G	C	0.9995901	1.952E-05	51227	1	0
LTX041_103852	LTX041:11:85733463:C	Longitudinal	12	11	85733463	C	G	0.9995294	2.614E-05	38251	1	0
LTX041_103852	LTX041:16:68023965:C	Longitudinal	12	16	68023965	C	A	0.9996738	1.717E-05	58252	1	0
LTX041_103852	LTX041:16:4896197:C	Longitudinal	12	16	4896197	C	A	0.9994717	2.642E-05	37856	1	0
LTX041_103852	LTX041:8:97797441:G	Longitudinal	12	8	97797441	G	C	0.9996559	2.647E-05	75562	2	0
LTX041_103852	LTX041:1:171761246:G	Longitudinal	12	1	171761246	G	T	0.9996152	0	51981	0	0
LTX041_103852	LTX041:14:105920600:G	Longitudinal	12	14	105920600	G	T	0.9993703	0	57166	0	0
LTX041_103852	LTX041:17:7579378:G	Longitudinal	12	17	7579378	G	T	0.9997048	0	23713	0	0
LTX041_103852	LTX041:1:150259318:G	Longitudinal	12	1	150259318	G	C	0.9996972	0	46242	0	0
LTX041_103852	LTX041:6:62390879:C	Longitudinal	12	6	62390879	C	A	0.9997698	0	43443	0	0
LTX041_103852	LTX041:X:90691588:G	Longitudinal	12	23	90691588	G	T	0.9996759	7.202E-05	27769	2	0
LTX156	LTX156 :1:170699449:G	Baseline	12	1	170699449	G	A	0.9994316	0.0004809	91489	44	0
LTX156	LTX156 :12:132271052:G	Baseline	12	12	132271052	G	T	0.9993023	0.0005814	8600	5	1
LTX156	LTX156 :11:60640702:C	Baseline	12	11	60640702	C	G	0.9996986	0.0001292	23223	3	0
LTX156	LTX156 :2:197105265:G	Baseline	12	2	197105265	G	T	0.9997326	0	41142	0	0
LTX156	LTX156 :1:28138714:G	Baseline	12	1	28138714	G	T	0.9997462	1.41E-05	70913	1	0
LTX156	LTX156 :7:138252243:G	Baseline	12	7	138252243	G	C	0.9996477	0.0001957	51096	10	1
LTX156	LTX156 :3:137893508:G	Baseline	12	3	137893508	G	C					0
LTX156	LTX156 :3:99649754:G	Baseline	12	3	99649754	G	T	0.9996859	1.309E-05	76399	1	0
LTX156	LTX156 :1:27877157:C	Baseline	12	1	27877157	C	G	0.9998133	0	21423	0	0
LTX156	LTX156 :8:124664508:T	Baseline	12	8	124664508	T	G	0.9995851	0	28920	0	0
LTX156	LTX156 :2:168103038:T	Baseline	12	2	168103038	T	A	0.9997412	6.471E-05	46361	3	0
LTX156	LTX156 :1:38261489:C	Baseline	12	1	38261489	C	G	0.9996706	0	54640	0	0
LTX156	LTX156 :4:77662103:A	Baseline	12	4	77662103	A	C	0.9995675	0	16184	0	0
LTX156	LTX156 :11:534223:G	Baseline	12	11	534223	G	A	0.9996705	0.0002746	18210	5	0
LTX156	LTX156 :14:42368142:C	Baseline	12	14	42368142	C	A	0.9994722	0.0002399	62522	15	1
LTX156	LTX156 :8:3226817:G	Baseline	12	8	3226817	G	C	0.9998214	2.977E-05	67172	2	0
LTX156	LTX156 :12:7653956:C	Baseline	12	12	7653956	C	A	0.9996585	5.692E-05	52709	3	0
LTX156	LTX156 :2:210694040:C	Baseline	12	2	210694040	C	A	0.9996574	7.613E-05	52542	4	0
LTX156	LTX156 :6:90312838:C	Baseline	12	6	90312838	C	A	0.9995196	2.002E-05	49962	1	0
LTX156	LTX156 :4:36166588:A	Baseline	12	4	36166588	A	T	0.9995333	0.0002956	64285	19	1

LTX156	LTX156 :1:154239006:G	Baseline	12	1	154239006	G	T	0.999436	2.751E-05	72701	2	0
LTX156	LTX156 :12:6494404:G	Baseline	12	12	6494404	G	C	0.9993485	0	10745	0	0
LTX156	LTX156 :12:111776278:G	Baseline	12	12	111776278	G	T	0.9996868	4.475E-05	44694	2	0
LTX156	LTX156 :10:32306146:G	Baseline	12	10	32306146	G	A	0.9995377	0.0003468	51910	18	0
LTX156	LTX156 :16:29818790:G	Baseline	12	16	29818790	G	T	0.999115	0	4520	0	0
LTX156	LTX156 :1:1246450:C	Baseline	12	1	1246450	C	A	0.9994788	0	26861	0	0
LTX156	LTX156 :18:6978340:G	Baseline	12	18	6978340	G	T	0.9994862	0	25300	0	0
LTX156	LTX156 :2:177017457:T	Baseline	12	2	177017457	T	A	0.9998347	6.011E-05	66549	4	0
LTX165	LTX165 :17:7578457:C	Baseline	12	17	7578457	C	A	0.9964888	0.0030235	10253	31	1
LTX165	LTX165 :4:153245381:T	Baseline	12	4	153245381	T	C	0.9975732	0.0023883	25960	62	1
LTX165	LTX165 :14:31061546:G	Baseline	12	14	31061546	G	C	0.9972281	0.0026179	25975	68	1
LTX165	LTX165 :4:22394224:T	Baseline	12	4	22394224	T	A	0.9990333	0.0005686	35173	20	1
LTX165	LTX165 :13:32929041:G	Baseline	12	13	32929041	G	T	0.9980324	0.0012957	20838	27	1
LTX165	LTX165 :16:48174630:A	Baseline	12	16	48174630	A	T	0.9991161	0.0005998	31678	19	1
LTX165	LTX165 :14:105518356:C	Baseline	12	14	105518356	C	T	0.9985262	0.0013686	9499	13	1
LTX165	LTX165 :10:6264869:C	Baseline	12	10	6264869	C	T	0.9986476	9.016E-05	11091	1	0
LTX165	LTX165 :1:117644093:G	Baseline	12	1	117644093	G	A	0.9990579	0.0009421	47766	45	1
LTX165	LTX165 :11:72141386:G	Baseline	12	11	72141386	G	A	0.9999008	9.916E-05	20169	2	0
LTX165	LTX165 :6:27858176:C	Baseline	12	6	27858176	C	G	0.9992061	0.0003053	16375	5	1
LTX165	LTX165 :19:11226802:C	Baseline	12	19	11226802	C	T	0.9994003	0.0005569	23345	13	0
LTX165	LTX165 :11:111228171:G	Baseline	12	11	111228171	G	A	0.9987449	0.0011252	23106	26	1
LTX165	LTX165 :4:106880244:G	Baseline	12	4	106880244	G	A	0.9987078	0.0012922	33276	43	1
LTX165	LTX165 :11:30433103:G	Baseline	12	11	30433103	G	T	0.9996815	0	37677	0	0
LTX165	LTX165 :18:10784905:C	Baseline	12	18	10784905	C	T	0.9994694	0.0003648	30155	11	0
LTX165	LTX165 :10:28224075:G	Baseline	12	10	28224075	G	C	0.4999432	0.0015896	35228	56	1
LTX175	LTX175:7:154862800:C	Baseline	12	7	154862800	C	G	0.9540338	0.0454451	9594	436	1
LTX175	LTX175:4:88583579:A	Baseline	12	4	88583579	A	T	0.9734685	0.0261667	41121	1076	1
LTX175	LTX175:17:7577570:C	Baseline	12	17	7577570	C	T	0.9865693	0.0134307	28070	377	1
LTX175	LTX175:13:28588650:C	Baseline	12	13	28588650	C	A	0.9851575	0.0141068	62523	882	1
LTX175	LTX175:2:86831307:C	Baseline	12	2	86831307	C	A	0.9830425	0.01636	56907	931	1
LTX175	LTX175:19:47424731:C	Baseline	12	19	47424731	C	G	0.9911792	0.0086003	31743	273	1
LTX175	LTX175:2:185803525:A	Baseline	12	2	185803525	A	T	0.9953502	0.0045696	49895	228	1
LTX175	LTX175:1:110740757:C	Baseline	12	1	110740757	C	G	0.9922563	0.0072327	25440	184	1
LTX175	LTX175:16:77918598:G	Baseline	12	16	77918598	G	T	0.9887227	0.0109534	52495	575	1
LTX175	LTX175:17:67029876:T	Baseline	12	17	67029876	T	G	0.9999361	2.13E-05	46958	1	0
LTX175	LTX175:1:183093996:G	Baseline	12	1	183093996	G	C	0.9972274	0.0023996	61676	148	1
LTX175	LTX175:17:32597315:A	Baseline	12	17	32597315	A	C	0.9995878	0	41247	0	0
LTX175	LTX175:9:123920070:G	Baseline	12	9	123920070	G	A	0.9947283	0.0052168	36421	190	1

LTX175	LTX175:2:50779932:A	Baseline	12	2	50779932	A	C	0.9951729	0.0045662	53655	245	1
LTX175	LTX175:14:20779849:C	Baseline	12	14	20779849	C	T	0.9997196	0.0002492	32097	8	0
LTX175	LTX175:15:88727481:C	Baseline	12	15	88727481	C	T	0.9995021	0.0003931	38162	15	0
LTX175	LTX175:4:37447137:G	Baseline	12	4	37447137	G	T	0.9931385	0.0065328	73016	477	1
LTX175	LTX175:4:92520188:C	Baseline	12	4	92520188	C	A	0.9996767	0.0001532	58762	9	0
LTX175	LTX175:7:121652018:A	Baseline	12	7	121652018	A	C	0.9937079	0.0062015	66274	411	1
LTX175	LTX175:17:72610163:G	Baseline	12	17	72610163	G	T	0.9831389	0.0162905	35051	571	1
LTX175	LTX175:2:44556189:T	Baseline	12	2	44556189	T	G	0.9997998	0	54951	0	0
LTX175	LTX175:12:109865278:A	Baseline	12	12	109865278	A	C	0.9999273	0	27503	0	0
LTX175	LTX175:9:93636537:T	Baseline	12	9	93636537	T	C	0.9997832	0.0001987	55346	11	0
LTX175	LTX175:5:9190458:G	Baseline	12	5	9190458	G	T	0.999767	0	30040	0	0
LTX175	LTX175:2:54147457:G	Baseline	12	2	54147457	G	T	0.9996651	0	50762	0	0
LTX175	LTX175:8:77776619:A	Baseline	12	8	77776619	A	C	0.9999052	2.369E-05	42206	1	0
LTX175	LTX175:12:53070879:C	Baseline	12	12	53070879	C	G	0.9997396	0	69133	0	0
LTX175	LTX175:19:47424497:C	Baseline	12	19	47424497	C	G	0.9896835	0.0100817	55348	558	1
LTX175	LTX175:7:151878287:G	Baseline	12	7	151878287	G	A	0.9941353	0.0058184	64794	377	1
LTX049_106679	LTX049:12:25398284:C	Longitudinal	12	12	25398284	C	A	0.9900133	0.0005774	46762	27	0
LTX049_106679	LTX049:1:3313149:G	Longitudinal	12	1	3313149	G	T	0.9995482	4.518E-05	22136	1	0
LTX049_106679	LTX049:8:32621405:C	Longitudinal	12	8	32621405	C	A	0.9997942	5.144E-05	38881	2	0
LTX049_106679	LTX049:19:11152100:A	Longitudinal	12	19	11152100	A	T	1	0	7437	0	0
LTX049_106679	LTX049:8:92982976:C	Longitudinal	12	8	92982976	C	A	0.9996449	0	19711	0	0
LTX049_106679	LTX049:1:78430869:C	Longitudinal	12	1	78430869	C	A	0.9996293	2.059E-05	48558	1	0
LTX049_106679	LTX049:15:88680726:C	Longitudinal	12	15	88680726	C	A	0.9996106	2.049E-05	48793	1	0
LTX049_106679	LTX049:20:51870588:G	Longitudinal	12	20	51870588	G	T	0.9995166	6.592E-05	45509	3	0
LTX049_106679	LTX049:12:46244010:G	Longitudinal	12	12	46244010	G	C	0.9997059	1.471E-05	68004	1	0
LTX049_106679	LTX049:2:155099384:C	Longitudinal	12	2	155099384	C	G	0.9995479	1.884E-05	53084	1	0
LTX049_106679	LTX049:2:116520170:C	Longitudinal	12	2	116520170	C	G	0.9996239	1.791E-05	55842	1	0
LTX049_106679	LTX049:7:123302365:T	Longitudinal	12	7	123302365	T	A	0.9995389	0	45540	0	0
LTX049_106679	LTX049:2:189868155:G	Longitudinal	12	2	189868155	G	T	0.999551	3.454E-05	57903	2	0
LTX049_106679	LTX049:1:237804216:G	Longitudinal	12	1	237804216	G	T	0.9997241	8.114E-05	61619	5	0
LTX049_106679	LTX049:7:70597822:G	Longitudinal	12	7	70597822	G	C	0.9994721	0	22731	0	0
LTX049_106679	LTX049:11:16208424:G	Longitudinal	12	11	16208424	G	T	0.9996239	2.786E-05	71785	2	0
LTX049_106679	LTX049:1:85331512:T	Longitudinal	12	1	85331512	T	A	0.9995395	8.373E-05	47775	4	0
LTX049_106679	LTX049:3:57457248:C	Longitudinal	12	3	57457248	C	A	0.9992566	0	29595	0	0
LTX049_106679	LTX049:9:13223601:G	Longitudinal	12	9	13223601	G	C	0.9996241	0	47883	0	0
LTX049_106679	LTX049:1:248845376:G	Longitudinal	12	1	248845376	G	T	0.9995915	0.00013	53859	7	0
LTX049_106679	LTX049:21:47987434:G	Longitudinal	12	21	47987434	G	T	0.9998013	5.676E-05	35235	2	0
LTX049_106679	LTX049:12:111953997:C	Longitudinal	12	12	111953997	C	A	0.9997486	0	19889	0	0

LTX049_106679	LTX049:3:128200113:G	Longitudinal	12	3	128200113	G	A	0.9995287	0.0004713	14853	7	0
LTX049_106679	LTX049:3:129370350:C	Longitudinal	12	3	129370350	C	G	0.9994469	0	63276	0	0
LTX049_106679	LTX049:8:52323848:C	Longitudinal	12	8	52323848	C	A	0.9997565	0	41073	0	0
LTX049_106679	LTX049:17:72519788:C	Longitudinal	12	17	72519788	C	A	0.9997528	1.902E-05	52588	1	0
LTX049_106679	LTX049:19:10897345:C	Longitudinal	12	19	10897345	C	A	0.9993707	0	27016	0	0
LTX049_106679	LTX049:8:9437749:C	Longitudinal	12	8	9437749	C	G	0.9997848	2.391E-05	41828	1	0
LTX049_106679	LTX049:X:48547447:C	Longitudinal	12	23	48547447	C	A	0.9994891	0	27401	0	0
LTX049_106679	LTX049:X:76939413:T	Longitudinal	12	23	76939413	T	A	0.9995474	1.561E-05	64077	1	0
LTX049_105532	LTX049:12:25398284:C	Longitudinal	12	12	25398284	C	A	0.9902552	0.0003248	43100	14	0
LTX049_105532	LTX049:1:3313149:G	Longitudinal	12	1	3313149	G	T	0.9996673	0	27054	0	0
LTX049_105532	LTX049:8:32621405:C	Longitudinal	12	8	32621405	C	A	0.9997305	7.351E-05	40811	3	0
LTX049_105532	LTX049:19:11152100:A	Longitudinal	12	19	11152100	A	T	0.9998229	0	11294	0	0
LTX049_105532	LTX049:8:92982976:C	Longitudinal	12	8	92982976	C	A	0.9996931	0	19549	0	0
LTX049_105532	LTX049:1:78430869:C	Longitudinal	12	1	78430869	C	A	0.9994447	2.221E-05	45019	1	0
LTX049_105532	LTX049:15:88680726:C	Longitudinal	12	15	88680726	C	A	0.9996296	1.949E-05	51301	1	0
LTX049_105532	LTX049:20:51870588:G	Longitudinal	12	20	51870588	G	T	0.9996568	0	46618	0	0
LTX049_105532	LTX049:12:46244010:G	Longitudinal	12	12	46244010	G	C	0.999714	0	55935	0	0
LTX049_105532	LTX049:2:155099384:C	Longitudinal	12	2	155099384	C	G	0.9995527	4.26E-05	46944	2	0
LTX049_105532	LTX049:2:116520170:C	Longitudinal	12	2	116520170	C	G	0.9996085	0	51092	0	0
LTX049_105532	LTX049:7:123302365:T	Longitudinal	12	7	123302365	T	A	0.9997268	2.483E-05	40269	1	0
LTX049_105532	LTX049:2:189868155:G	Longitudinal	12	2	189868155	G	T	0.9996596	7.564E-05	52882	4	0
LTX049_105532	LTX049:1:237804216:G	Longitudinal	12	1	237804216	G	T	0.9996933	1.804E-05	55422	1	0
LTX049_105532	LTX049:7:70597822:G	Longitudinal	12	7	70597822	G	C	0.999607	0	27992	0	0
LTX049_105532	LTX049:11:16208424:G	Longitudinal	12	11	16208424	G	T	0.99969	2.818E-05	70963	2	0
LTX049_105532	LTX049:1:85331512:T	Longitudinal	12	1	85331512	T	A	0.9995762	2.23E-05	44835	1	0
LTX049_105532	LTX049:3:57457248:C	Longitudinal	12	3	57457248	C	A	0.9993886	0	27805	0	0
LTX049_105532	LTX049:9:13223601:G	Longitudinal	12	9	13223601	G	C	0.9995705	2.261E-05	44238	1	0
LTX049_105532	LTX049:1:248845376:G	Longitudinal	12	1	248845376	G	T	0.9997234	0	50623	0	0
LTX049_105532	LTX049:21:47987434:G	Longitudinal	12	21	47987434	G	T	0.9996201	0	39481	0	0
LTX049_105532	LTX049:12:111953997:C	Longitudinal	12	12	111953997	C	A	0.9999016	0	20335	0	0
LTX049_105532	LTX049:3:128200113:G	Longitudinal	12	3	128200113	G	A	0.9993858	0.0006142	14654	9	0
LTX049_105532	LTX049:3:129370350:C	Longitudinal	12	3	129370350	C	G	0.9995074	1.759E-05	56843	1	0
LTX049_105532	LTX049:8:52323848:C	Longitudinal	12	8	52323848	C	A	0.9997886	0	37840	0	0
LTX049_105532	LTX049:17:72519788:C	Longitudinal	12	17	72519788	C	A	0.9995534	6.091E-05	49256	3	0
LTX049_105532	LTX049:19:10897345:C	Longitudinal	12	19	10897345	C	A	0.9997497	0	27963	0	0
LTX049_105532	LTX049:8:9437749:C	Longitudinal	12	8	9437749	C	G	0.9997232	0	39736	0	0
LTX049_105532	LTX049:X:48547447:C	Longitudinal	12	23	48547447	C	A	0.9995034	7.094E-05	28192	2	0
LTX049_105532	LTX049:X:76939413:T	Longitudinal	12	23	76939413	T	A	0.9994682	1.715E-05	58293	1	0

LTX049_117538	LTX049:12:25398284:C	Longitudinal	12	12	25398284	C	A	0.9906262	0.000606	52807	32	0
LTX049_117538	LTX049:1:3313149:G	Longitudinal	12	1	3313149	G	T	0.9996713	4.696E-05	21296	1	0
LTX049_117538	LTX049:8:32621405:C	Longitudinal	12	8	32621405	C	A	0.9995017	0.0001049	38127	4	0
LTX049_117538	LTX049:19:11152100:A	Longitudinal	12	19	11152100	A	T	0.9992698	0	6847	0	0
LTX049_117538	LTX049:8:92982976:C	Longitudinal	12	8	92982976	C	A	0.9997485	0	19884	0	0
LTX049_117538	LTX049:1:78430869:C	Longitudinal	12	1	78430869	C	A	0.9995222	8.848E-05	56507	5	0
LTX049_117538	LTX049:15:88680726:C	Longitudinal	12	15	88680726	C	A	0.9995224	2.171E-05	46066	1	0
LTX049_117538	LTX049:20:51870588:G	Longitudinal	12	20	51870588	G	T	0.9995947	0	46878	0	0
LTX049_117538	LTX049:12:46244010:G	Longitudinal	12	12	46244010	G	C	0.9996052	1.41E-05	70916	1	0
LTX049_117538	LTX049:2:155099384:C	Longitudinal	12	2	155099384	C	G	0.9997101	0	58631	0	0
LTX049_117538	LTX049:2:116520170:C	Longitudinal	12	2	116520170	C	G	0.999425	1.597E-05	62607	1	0
LTX049_117538	LTX049:7:123302365:T	Longitudinal	12	7	123302365	T	A	0.9995799	2.001E-05	49985	1	0
LTX049_117538	LTX049:2:189868155:G	Longitudinal	12	2	189868155	G	T	0.9996979	1.51E-05	66208	1	0
LTX049_117538	LTX049:1:237804216:G	Longitudinal	12	1	237804216	G	T	0.9996473	8.818E-05	68045	6	0
LTX049_117538	LTX049:7:70597822:G	Longitudinal	12	7	70597822	G	C	0.9997823	4.353E-05	22972	1	0
LTX049_117538	LTX049:11:16208424:G	Longitudinal	12	11	16208424	G	T	0.9996068	2.712E-05	73758	2	0
LTX049_117538	LTX049:1:85331512:T	Longitudinal	12	1	85331512	T	A	0.9996489	0.000117	51265	6	0
LTX049_117538	LTX049:3:57457248:C	Longitudinal	12	3	57457248	C	A	0.9991561	0	35550	0	0
LTX049_117538	LTX049:9:13223601:G	Longitudinal	12	9	13223601	G	C	0.9996271	1.865E-05	53631	1	0
LTX049_117538	LTX049:1:248845376:G	Longitudinal	12	1	248845376	G	T	0.9997892	0	47443	0	0
LTX049_117538	LTX049:21:47987434:G	Longitudinal	12	21	47987434	G	T	0.999748	0	31752	0	0
LTX049_117538	LTX049:12:111953997:C	Longitudinal	12	12	111953997	C	A	0.9997598	0	20820	0	0
LTX049_117538	LTX049:3:128200113:G	Longitudinal	12	3	128200113	G	A	0.9988335	0.000892	14574	13	0
LTX049_117538	LTX049:3:129370350:C	Longitudinal	12	3	129370350	C	G	0.9995613	3.249E-05	61550	2	0
LTX049_117538	LTX049:8:52323848:C	Longitudinal	12	8	52323848	C	A	0.9995921	2.266E-05	44133	1	0
LTX049_117538	LTX049:17:72519788:C	Longitudinal	12	17	72519788	C	A	0.9997649	2.137E-05	46796	1	0
LTX049_117538	LTX049:19:10897345:C	Longitudinal	12	19	10897345	C	A	0.9995056	0	22248	0	0
LTX049_117538	LTX049:8:9437749:C	Longitudinal	12	8	9437749	C	G	0.9995058	2.059E-05	48564	1	0
LTX049_117538	LTX049:X:48547447:C	Longitudinal	12	23	48547447	C	A	0.9996466	4.418E-05	22635	1	0
LTX049_117538	LTX049:X:76939413:T	Longitudinal	12	23	76939413	T	A	0.9997232	2.914E-05	68638	2	0
LTX049_117475	LTX049:12:25398284:C	Longitudinal	12	12	25398284	C	A	0.990796	0.0005122	62473	32	0
LTX049_117475	LTX049:1:3313149:G	Longitudinal	12	1	3313149	G	T	0.9995688	0	25512	0	0
LTX049_117475	LTX049:8:32621405:C	Longitudinal	12	8	32621405	C	A	0.9996806	2.457E-05	40705	1	0
LTX049_117475	LTX049:19:11152100:A	Longitudinal	12	19	11152100	A	T	0.9997818	0	13751	0	0
LTX049_117475	LTX049:8:92982976:C	Longitudinal	12	8	92982976	C	A	0.999686	0	22296	0	0
LTX049_117475	LTX049:1:78430869:C	Longitudinal	12	1	78430869	C	A	0.9993411	0	63188	0	0
LTX049_117475	LTX049:15:88680726:C	Longitudinal	12	15	88680726	C	A	0.9997278	7.259E-05	55103	4	0
LTX049_117475	LTX049:20:51870588:G	Longitudinal	12	20	51870588	G	T	0.9995752	0	54138	0	0

LTX049_117475	LTX049:12:46244010:G	Longitudinal	12	12	46244010	G	C	0.9995137	0	84305	0	0
LTX049_117475	LTX049:2:155099384:C	Longitudinal	12	2	155099384	C	G	0.9994642	2.977E-05	67193	2	0
LTX049_117475	LTX049:2:116520170:C	Longitudinal	12	2	116520170	C	G	0.9992511	1.337E-05	74775	1	0
LTX049_117475	LTX049:7:123302365:T	Longitudinal	12	7	123302365	T	A	0.9997422	0	58193	0	0
LTX049_117475	LTX049:2:189868155:G	Longitudinal	12	2	189868155	G	T	0.9996893	1.351E-05	74037	1	0
LTX049_117475	LTX049:1:237804216:G	Longitudinal	12	1	237804216	G	T	0.9996636	2.691E-05	74326	2	0
LTX049_117475	LTX049:7:70597822:G	Longitudinal	12	7	70597822	G	C	0.9999244	0	26460	0	0
LTX049_117475	LTX049:11:16208424:G	Longitudinal	12	11	16208424	G	T	0.9997687	1.218E-05	82132	1	0
LTX049_117475	LTX049:1:85331512:T	Longitudinal	12	1	85331512	T	A	0.9997582	0	57898	0	0
LTX049_117475	LTX049:3:57457248:C	Longitudinal	12	3	57457248	C	A	0.9996815	0	40819	0	0
LTX049_117475	LTX049:9:13223601:G	Longitudinal	12	9	13223601	G	C	0.9995463	4.693E-05	63921	3	0
LTX049_117475	LTX049:1:248845376:G	Longitudinal	12	1	248845376	G	T	0.9998302	1.887E-05	53004	1	0
LTX049_117475	LTX049:21:47987434:G	Longitudinal	12	21	47987434	G	T	0.9998368	5.439E-05	36772	2	0
LTX049_117475	LTX049:12:111953997:C	Longitudinal	12	12	111953997	C	A	0.9994104	7.862E-05	25439	2	0
LTX049_117475	LTX049:3:128200113:G	Longitudinal	12	3	128200113	G	A	0.9996182	0.0003818	15717	6	0
LTX049_117475	LTX049:3:129370350:C	Longitudinal	12	3	129370350	C	G	0.9995795	1.45E-05	68966	1	0
LTX049_117475	LTX049:8:52323848:C	Longitudinal	12	8	52323848	C	A	0.9996443	3.953E-05	50599	2	0
LTX049_117475	LTX049:17:72519788:C	Longitudinal	12	17	72519788	C	A	0.9997204	5.242E-05	57232	3	0
LTX049_117475	LTX049:19:10897345:C	Longitudinal	12	19	10897345	C	A	0.9993551	0	29461	0	0
LTX049_117475	LTX049:8:9437749:C	Longitudinal	12	8	9437749	C	G	0.9995081	7.568E-05	52857	4	0
LTX049_117475	LTX049:X:48547447:C	Longitudinal	12	23	48547447	C	A	0.9997059	0	23799	0	0
LTX049_117475	LTX049:X:76939413:T	Longitudinal	12	23	76939413	T	A	0.999695	1.271E-05	78695	1	0
LTX049_117380	LTX049:12:25398284:C	Longitudinal	12	12	25398284	C	A	0.9898657	0.0005175	46377	24	0
LTX049_117380	LTX049:1:3313149:G	Longitudinal	12	1	3313149	G	T	0.9995139	3.472E-05	28799	1	0
LTX049_117380	LTX049:8:32621405:C	Longitudinal	12	8	32621405	C	A	0.9996502	4.664E-05	42885	2	0
LTX049_117380	LTX049:19:11152100:A	Longitudinal	12	19	11152100	A	T	0.9997869	0	14081	0	0
LTX049_117380	LTX049:8:92982976:C	Longitudinal	12	8	92982976	C	A	0.9995213	0	20892	0	0
LTX049_117380	LTX049:1:78430869:C	Longitudinal	12	1	78430869	C	A	0.9994195	4.003E-05	49957	2	0
LTX049_117380	LTX049:15:88680726:C	Longitudinal	12	15	88680726	C	A	0.9997529	0	52610	0	0
LTX049_117380	LTX049:20:51870588:G	Longitudinal	12	20	51870588	G	T	0.9997839	0	50897	0	0
LTX049_117380	LTX049:12:46244010:G	Longitudinal	12	12	46244010	G	C	0.9996823	0	62945	0	0
LTX049_117380	LTX049:2:155099384:C	Longitudinal	12	2	155099384	C	G	0.9995933	3.537E-05	56550	2	0
LTX049_117380	LTX049:2:116520170:C	Longitudinal	12	2	116520170	C	G	0.9996718	0	54845	0	0
LTX049_117380	LTX049:7:123302365:T	Longitudinal	12	7	123302365	T	A	0.9997349	4.419E-05	45259	2	0
LTX049_117380	LTX049:2:189868155:G	Longitudinal	12	2	189868155	G	T	0.9996259	0	56136	0	0
LTX049_117380	LTX049:1:237804216:G	Longitudinal	12	1	237804216	G	T	0.9998667	0	60016	0	0
LTX049_117380	LTX049:7:70597822:G	Longitudinal	12	7	70597822	G	C	0.9997048	0	30483	0	0
LTX049_117380	LTX049:11:16208424:G	Longitudinal	12	11	16208424	G	T	0.9995768	0	68527	0	0

LTX049_117380	LTX049:1:85331512:T	Longitudinal	12	1	85331512	T	A	0.9992576	4.124E-05	48493	2	0
LTX049_117380	LTX049:3:57457248:C	Longitudinal	12	3	57457248	C	A	0.9994645	3.347E-05	29879	1	0
LTX049_117380	LTX049:9:13223601:G	Longitudinal	12	9	13223601	G	C	0.9996682	0	48226	0	0
LTX049_117380	LTX049:1:248845376:G	Longitudinal	12	1	248845376	G	T	0.9996239	3.761E-05	53178	2	0
LTX049_117380	LTX049:21:47987434:G	Longitudinal	12	21	47987434	G	T	0.9997754	0	40071	0	0
LTX049_117380	LTX049:12:111953997:C	Longitudinal	12	12	111953997	C	A	0.9992543	0.0001316	22796	3	1
LTX049_117380	LTX049:3:128200113:G	Longitudinal	12	3	128200113	G	A	0.9990239	0.0009761	16391	16	0
LTX049_117380	LTX049:3:129370350:C	Longitudinal	12	3	129370350	C	G	0.9996249	1.631E-05	61319	1	0
LTX049_117380	LTX049:8:52323848:C	Longitudinal	12	8	52323848	C	A	0.999672	0	42688	0	0
LTX049_117380	LTX049:17:72519788:C	Longitudinal	12	17	72519788	C	A	0.9995373	5.553E-05	54025	3	0
LTX049_117380	LTX049:19:10897345:C	Longitudinal	12	19	10897345	C	A	0.99934	0	31816	0	0
LTX049_117380	LTX049:8:9437749:C	Longitudinal	12	8	9437749	C	G	0.9996127	2.278E-05	43899	1	0
LTX049_117380	LTX049:X:48547447:C	Longitudinal	12	23	48547447	C	A	0.9996722	3.278E-05	30508	1	0
LTX049_117380	LTX049:X:76939413:T	Longitudinal	12	23	76939413	T	A	0.9997558	1.628E-05	61416	1	0
LTX156_103122	LTX156:1:170699449:G	Longitudinal	12	1	170699449	G	A	0.9858336	0.0141127	74472	1051	1
LTX156_103122	LTX156:12:132271052:G	Longitudinal	12	12	132271052	G	T	0.9855307	0.0143535	8639	124	1
LTX156_103122	LTX156:11:60640702:C	Longitudinal	12	11	60640702	C	G	0.9867422	0.0130936	24363	319	1
LTX156_103122	LTX156:2:197105265:G	Longitudinal	12	2	197105265	G	T	0.9915879	0.0081018	29006	235	1
LTX156_103122	LTX156:1:28138714:G	Longitudinal	12	1	28138714	G	T	0.989116	0.010573	61099	646	1
LTX156_103122	LTX156:7:138252243:G	Longitudinal	12	7	138252243	G	C	0.9933969	0.0062147	38618	240	1
LTX156_103122	LTX156:3:137893508:G	Longitudinal	12	3	137893508	G	C					0
LTX156_103122	LTX156:3:99649754:G	Longitudinal	12	3	99649754	G	T	0.9948116	0.0048863	76132	372	1
LTX156_103122	LTX156:1:27877157:C	Longitudinal	12	1	27877157	C	G	0.996691	0.0030808	17528	54	1
LTX156_103122	LTX156:8:124664508:T	Longitudinal	12	8	124664508	T	G	0.9981997	0.0015483	27773	43	1
LTX156_103122	LTX156:2:168103038:T	Longitudinal	12	2	168103038	T	A	0.9984776	0.0011203	34813	39	1
LTX156_103122	LTX156:1:38261489:C	Longitudinal	12	1	38261489	C	G	0.9983899	0.0012344	55897	69	1
LTX156_103122	LTX156:4:77662103:A	Longitudinal	12	4	77662103	A	C	0.9964705	0.0028507	14733	42	1
LTX156_103122	LTX156:11:534223:G	Longitudinal	12	11	534223	G	A	0.9984767	0.0014182	19038	27	0
LTX156_103122	LTX156:14:42368142:C	Longitudinal	12	14	42368142	C	A	0.9972806	0.0023737	43392	103	1
LTX156_103122	LTX156:8:3226817:G	Longitudinal	12	8	3226817	G	C	0.996462	0.0033194	50311	167	1
LTX156_103122	LTX156:12:7653956:C	Longitudinal	12	12	7653956	C	A	0.9991415	0.0005914	52415	31	1
LTX156_103122	LTX156:2:210694040:C	Longitudinal	12	2	210694040	C	A	0.9966764	0.0029761	46034	137	1
LTX156_103122	LTX156:6:90312838:C	Longitudinal	12	6	90312838	C	A	0.9985031	0.0011618	44759	52	1
LTX156_103122	LTX156:4:36166588:A	Longitudinal	12	4	36166588	A	T	0.9971054	0.0028041	66331	186	1
LTX156_103122	LTX156:1:154239006:G	Longitudinal	12	1	154239006	G	T	0.9946761	0.0049183	59167	291	1
LTX156_103122	LTX156:12:6494404:G	Longitudinal	12	12	6494404	G	C	0.9984807	0.0013294	10531	14	1
LTX156_103122	LTX156:12:111776278:G	Longitudinal	12	12	111776278	G	T	0.9996366	0.0001298	38523	5	1
LTX156_103122	LTX156:10:32306146:G	Longitudinal	12	10	32306146	G	A	0.9960941	0.0039059	40708	159	1

LTX156_103122	LTX156:16:29818790:G	Longitudinal	12	16	29818790	G	T	0.9877463	0.0120135	4162	50	1
LTX156_103122	LTX156:1:1246450:C	Longitudinal	12	1	1246450	C	A	0.9923443	0.0072264	27953	202	1
LTX156_103122	LTX156:18:6978340:G	Longitudinal	12	18	6978340	G	T	0.991536	0.0081155	20085	163	1
LTX156_103122	LTX156:2:177017457:T	Longitudinal	12	2	177017457	T	A	0.9972633	0.0025637	63581	163	1
LTX165_109336	LTX165:17:7578457:C	Longitudinal	12	17	7578457	C	A	0.9996477	0	28382	0	0
LTX165_109336	LTX165:4:153245381:T	Longitudinal	12	4	153245381	T	C	0.9998389	0.0001381	43445	6	0
LTX165_109336	LTX165:14:31061546:G	Longitudinal	12	14	31061546	G	C	0.9997371	0	38031	0	0
LTX165_109336	LTX165:4:22394224:T	Longitudinal	12	4	22394224	T	A	0.9994716	1.822E-05	54880	1	0
LTX165_109336	LTX165:13:32929041:G	Longitudinal	12	13	32929041	G	T	0.9994212	8.682E-05	34553	3	0
LTX165_109336	LTX165:16:48174630:A	Longitudinal	12	16	48174630	A	T	0.9996841	5.922E-05	50656	3	0
LTX165_109336	LTX165:14:105518356:C	Longitudinal	12	14	105518356	C	T	0.9997172	0.0002828	38890	11	0
LTX165_109336	LTX165:10:6264869:C	Longitudinal	12	10	6264869	C	T	0.9992111	0.0001726	40561	7	0
LTX165_109336	LTX165:1:117644093:G	Longitudinal	12	1	117644093	G	A	0.9995266	0.0004602	76046	35	0
LTX165_109336	LTX165:11:72141386:G	Longitudinal	12	11	72141386	G	A	0.9997849	0.0002151	46500	10	0
LTX165_109336	LTX165:6:27858176:C	Longitudinal	12	6	27858176	C	G	0.9994492	0	25416	0	0
LTX165_109336	LTX165:19:11226802:C	Longitudinal	12	19	11226802	C	T	0.9997522	0.0001817	60523	11	0
LTX165_109336	LTX165:11:111228171:G	Longitudinal	12	11	111228171	G	A	0.9996501	0.0003181	62877	20	0
LTX165_109336	LTX165:4:106880244:G	Longitudinal	12	4	106880244	G	A	0.9997223	0.0002545	43219	11	0
LTX165_109336	LTX165:11:30433103:G	Longitudinal	12	11	30433103	G	T	0.9994484	0	50758	0	0
LTX165_109336	LTX165:18:10784905:C	Longitudinal	12	18	10784905	C	T	0.9992451	0.0007198	56962	41	0
LTX165_109336	LTX165:10:28224075:G	Longitudinal	12	10	28224075	G	C	0.4957077	0	62670	0	0
LTX019_108270	LTX019:7:127013601:T	Longitudinal	13	7	127013601	T	A	0.9998509	0	60344	0	0
LTX019_108270	LTX019:9:136231864:G	Longitudinal	13	9	136231864	G	C	0.9996163	0	70360	0	0
LTX019_108270	LTX019:3:119530387:G	Longitudinal	13	3	119530387	G	T	0.9995968	0	34725	0	0
LTX019_108270	LTX019:22:41574949:G	Longitudinal	13	22	41574949	G	C	0.9996951	1.793E-05	55757	1	0
LTX019_108270	LTX019:8:42821731:C	Longitudinal	13	8	42821731	C	G	0.9996081	0	66343	0	0
LTX019_108270	LTX019:19:39914989:T	Longitudinal	13	19	39914989	T	G	0.9998456	0	38865	0	0
LTX019_108270	LTX019:15:78921901:A	Longitudinal	13	15	78921901	A	C	0.9992167	6.667E-05	59999	4	0
LTX019_108270	LTX019:2:47637426:T	Longitudinal	13	2	47637426	T	A	0.9998109	1.891E-05	52874	1	0
LTX019_108270	LTX019:8:62212481:C	Longitudinal	13	8	62212481	C	A	0.9989703	1.98E-05	50502	1	0
LTX019_108270	LTX019:2:100168048:T	Longitudinal	13	2	100168048	T	C	0.9998587	0.0001413	21230	3	0
LTX019_108270	LTX019:2:74733940:C	Longitudinal	13	2	74733940	C	G	0.9996672	0	72938	0	0
LTX019_108270	LTX019:17:40870017:C	Longitudinal	13	17	40870017	C	A	0.9996975	1.681E-05	59502	1	0
LTX019_108270	LTX019:14:31602819:C	Longitudinal	13	14	31602819	C	G	0.9998423	0	57087	0	0
LTX019_108270	LTX019:11:119547900:C	Longitudinal	13	11	119547900	C	G	0.999805	0	82058	0	0
LTX019_108270	LTX019:11:55587191:T	Longitudinal	13	11	55587191	T	G	0.9997754	0	48969	0	0
LTX019_108270	LTX019:4:44450329:G	Longitudinal	13	4	44450329	G	T	0.9995067	0	22300	0	0
LTX019_108270	LTX019:5:142258975:G	Longitudinal	13	5	142258975	G	T	0.9996751	3.095E-05	64628	2	0

LTX019_108270	LTX019:17:29576091:C	Longitudinal	13	17	29576091	C	G	0.999652	0	45973	0	0
LTX022_105025	LTX022:1:247836132:G	Longitudinal	13	1	247836132	G	T	0.9991868	0	39349	0	0
LTX022_105025	LTX022:17:7578190:T	Longitudinal	13	17	7578190	T	C	0.9999727	2.729E-05	36638	1	0
LTX022_105025	LTX022:5:167645878:T	Longitudinal	13	5	167645878	T	G	0.9995721	1.297E-05	77115	1	0
LTX022_105025	LTX022:9:123220803:C	Longitudinal	13	9	123220803	C	G	0.9997466	2.303E-05	43415	1	0
LTX022_105025	LTX022:6:155153840:A	Longitudinal	13	6	155153840	A	G	0.9998149	0.000144	48622	7	0
LTX022_105025	LTX022:7:117432761:C	Longitudinal	13	7	117432761	C	A	0.999672	5.467E-05	18290	1	0
LTX022_105025	LTX022:9:97887448:C	Longitudinal	13	9	97887448	C	A	0.9991403	2.149E-05	46527	1	0
LTX022_105025	LTX022:18:47802230:C	Longitudinal	13	18	47802230	C	A	0.9996396	5.148E-05	19424	1	0
LTX022_105025	LTX022:12:129559276:C	Longitudinal	13	12	129559276	C	T	0.9997625	0.0001781	33689	6	0
LTX022_105025	LTX022:18:47800615:C	Longitudinal	13	18	47800615	C	A	0.9995427	0.0003049	6560	2	0
LTX022_105025	LTX022:8:70674006:G	Longitudinal	13	8	70674006	G	T	0.9996541	0	37588	0	0
LTX022_105025	LTX022:2:1168816:T	Longitudinal	13	2	1168816	T	C	0.9998035	0.0001684	35629	6	0
LTX022_105025	LTX022:9:35714237:T	Longitudinal	13	9	35714237	T	C	0.9997467	0.000181	27631	5	0
LTX022_105025	LTX022:9:95841793:G	Longitudinal	13	9	95841793	G	C	0.9997716	0	26265	0	0
LTX022_105025	LTX022:19:6732134:C	Longitudinal	13	19	6732134	C	G	0.9995878	0	9705	0	0
LTX022_105025	LTX022:18:22807056:C	Longitudinal	13	18	22807056	C	A	0.9997685	0	38884	0	0
LTX022_105025	LTX022:4:187532858:C	Longitudinal	13	4	187532858	C	A	0.9997963	0	24540	0	0
LTX022_105025	LTX022:5:176710869:A	Longitudinal	13	5	176710869	A	T	0.9998327	4.779E-05	41849	2	0
LTX022_105025	LTX022:8:88365909:G	Longitudinal	13	8	88365909	G	T	0.9997602	0	29189	0	0
LTX022_111750	LTX022:1:247836132:G	Longitudinal	13	1	247836132	G	T	0.9995924	5.095E-05	58883	3	0
LTX022_111750	LTX022:17:7578190:T	Longitudinal	13	17	7578190	T	C	0.999762	0.0002014	54623	11	0
LTX022_111750	LTX022:5:167645878:T	Longitudinal	13	5	167645878	T	G	0.9997168	0	112995	0	0
LTX022_111750	LTX022:9:123220803:C	Longitudinal	13	9	123220803	C	G	0.9997267	0	69514	0	0
LTX022_111750	LTX022:6:155153840:A	Longitudinal	13	6	155153840	A	G	0.9998501	8.178E-05	73371	6	0
LTX022_111750	LTX022:7:117432761:C	Longitudinal	13	7	117432761	C	A	0.9996746	0	27660	0	0
LTX022_111750	LTX022:9:97887448:C	Longitudinal	13	9	97887448	C	A	0.9994571	0	75517	0	0
LTX022_111750	LTX022:18:47802230:C	Longitudinal	13	18	47802230	C	A	0.9996478	0	25555	0	0
LTX022_111750	LTX022:12:129559276:C	Longitudinal	13	12	129559276	C	T	0.999286	0.000612	49022	30	0
LTX022_111750	LTX022:18:47800615:C	Longitudinal	13	18	47800615	C	A	0.9992778	0	8308	0	0
LTX022_111750	LTX022:8:70674006:G	Longitudinal	13	8	70674006	G	T	0.9996054	1.578E-05	63355	1	0
LTX022_111750	LTX022:2:1168816:T	Longitudinal	13	2	1168816	T	C	0.9998718	0.0001282	54608	7	0
LTX022_111750	LTX022:9:35714237:T	Longitudinal	13	9	35714237	T	C	0.9996427	0.0003298	36381	12	0
LTX022_111750	LTX022:9:95841793:G	Longitudinal	13	9	95841793	G	C	0.9995978	0	32324	0	0
LTX022_111750	LTX022:19:6732134:C	Longitudinal	13	19	6732134	C	G	0.9999203	0	12541	0	0
LTX022_111750	LTX022:18:22807056:C	Longitudinal	13	18	22807056	C	A	0.9997519	1.772E-05	56427	1	0
LTX022_111750	LTX022:4:187532858:C	Longitudinal	13	4	187532858	C	A	0.999662	4.829E-05	41416	2	0
LTX022_111750	LTX022:5:176710869:A	Longitudinal	13	5	176710869	A	T	0.9996606	6.171E-05	64817	4	0

LTX022_111750	LTX022:8:88365909:G	Longitudinal	13	8	88365909	G	T	0.9996421	1.883E-05	53093	1	0
LTX022_111653	LTX022:1:247836132:G	Longitudinal	13	1	247836132	G	T	0.9996757	2.494E-05	40089	1	0
LTX022_111653	LTX022:17:7578190:T	Longitudinal	13	17	7578190	T	C	0.9995643	0.0004085	36723	15	0
LTX022_111653	LTX022:5:167645878:T	Longitudinal	13	5	167645878	T	G	0.9994989	3.758E-05	79829	3	0
LTX022_111653	LTX022:9:123220803:C	Longitudinal	13	9	123220803	C	G	0.9995801	3.999E-05	50011	2	0
LTX022_111653	LTX022:6:155153840:A	Longitudinal	13	6	155153840	A	G	0.9997547	0.0001698	52998	9	0
LTX022_111653	LTX022:7:117432761:C	Longitudinal	13	7	117432761	C	A	0.9990833	0	18545	0	0
LTX022_111653	LTX022:9:97887448:C	Longitudinal	13	9	97887448	C	A	0.9995174	5.792E-05	51798	3	0
LTX022_111653	LTX022:18:47802230:C	Longitudinal	13	18	47802230	C	A	1	0	17093	0	0
LTX022_111653	LTX022:12:129559276:C	Longitudinal	13	12	129559276	C	T	0.9996191	0.0003492	31502	11	0
LTX022_111653	LTX022:18:47800615:C	Longitudinal	13	18	47800615	C	A	0.9993258	0	5933	0	0
LTX022_111653	LTX022:8:70674006:G	Longitudinal	13	8	70674006	G	T	0.9997342	6.646E-05	45141	3	0
LTX022_111653	LTX022:2:1168816:T	Longitudinal	13	2	1168816	T	C	0.9997638	0.0001837	38099	7	0
LTX022_111653	LTX022:9:35714237:T	Longitudinal	13	9	35714237	T	C	0.9995405	0.000361	30470	11	0
LTX022_111653	LTX022:9:95841793:G	Longitudinal	13	9	95841793	G	C	0.9994688	0	22589	0	0
LTX022_111653	LTX022:19:6732134:C	Longitudinal	13	19	6732134	C	G	0.9997731	0	8814	0	0
LTX022_111653	LTX022:18:22807056:C	Longitudinal	13	18	22807056	C	A	0.9996671	0	39046	0	0
LTX022_111653	LTX022:4:187532858:C	Longitudinal	13	4	187532858	C	A	0.9993988	0.0001002	29938	3	0
LTX022_111653	LTX022:5:176710869:A	Longitudinal	13	5	176710869	A	T	0.9997947	8.21E-05	48721	4	0
LTX022_111653	LTX022:8:88365909:G	Longitudinal	13	8	88365909	G	T	0.9989793	0.0003791	34290	13	1
LTX097_105031	LTX097:1:209933487:T	Longitudinal	13	1	209933487	T	A	0.9576988	0.0421719	38675	1631	1
LTX097_105031	LTX097:17:7577580:T	Longitudinal	13	17	7577580	T	C	0.9800076	0.0199166	39565	788	1
LTX097_105031	LTX097:1:156849828:C	Longitudinal	13	1	156849828	C	A	0.9616229	0.0380166	30513	1160	1
LTX097_105031	LTX097:1:115256529:T	Longitudinal	13	1	115256529	T	C	0.9702673	0.0296002	22635	670	1
LTX097_105031	LTX097:2:178098966:C	Longitudinal	13	2	178098966	C	T	0.9789498	0.0209585	43610	914	1
LTX097_105031	LTX097:2:178098808:C	Longitudinal	13	2	178098808	C	G	0.984403	0.0153921	39046	601	1
LTX097_105031	LTX097:4:123246416:G	Longitudinal	13	4	123246416	G	C	0.988495	0.0112593	44763	504	1
LTX097_105031	LTX097:9:24545427:A	Longitudinal	13	9	24545427	A	T	0.9932815	0.0065062	51797	337	1
LTX097_105031	LTX097:22:37903864:A	Longitudinal	13	22	37903864	A	C	0.9996444	2.092E-05	47810	1	0
LTX097_105031	LTX097:5:66460021:G	Longitudinal	13	5	66460021	G	A	0.9823439	0.0175894	15009	264	1
LTX097_105031	LTX097:5:176861924:C	Longitudinal	13	5	176861924	C	G	0.9920444	0.0077054	19986	154	1
LTX097_105031	LTX097:1:2939112:G	Longitudinal	13	1	2939112	G	C	0.9886287	0.0110549	50566	559	1
LTX097_105031	LTX097:5:157158565:G	Longitudinal	13	5	157158565	G	T	0.991294	0.0083456	36067	301	1
LTX097_105031	LTX097:22:36722683:G	Longitudinal	13	22	36722683	G	A	0.9997564	0.0001772	45148	8	0
LTX097_105031	LTX097:7:98609727:G	Longitudinal	13	7	98609727	G	A	0.9897627	0.0101986	51674	527	1
LTX097_105031	LTX097:15:42059002:G	Longitudinal	13	15	42059002	G	C	0.9919004	0.0076956	54447	419	1
LTX097_105031	LTX097:2:136615556:C	Longitudinal	13	2	136615556	C	T	0.9915196	0.0084431	53535	452	1
LTX097_105031	LTX097:17:10398519:G	Longitudinal	13	17	10398519	G	A	0.9993153	0.0003306	42353	14	0

LTX097_105031	LTX097:19:3978139:G	Longitudinal	13	19	3978139	G	A	0.9997262	0.0002738	29218	8	0
LTX097_105031	LTX097:11:134018480:G	Longitudinal	13	11	134018480	G	A	0.9912103	0.0087294	49717	434	1
LTX097_105031	LTX097:16:72184618:C	Longitudinal	13	16	72184618	C	G	1	0	2918	0	0
LTX097_105031	LTX097:7:121612669:A	Longitudinal	13	7	121612669	A	C	0.9998581	0	42282	0	0
LTX097_105031	LTX097:19:39087699:G	Longitudinal	13	19	39087699	G	A	0.9997305	0.0002695	40823	11	0
LTX097_105031	LTX097:4:115585181:G	Longitudinal	13	4	115585181	G	T	0.9897571	0.0098974	66583	659	1
LTX097_105031	LTX097:19:1083272:C	Longitudinal	13	19	1083272	C	T	0.9859704	0.0139545	13329	186	1
LTX097_105031	LTX097:20:9496145:C	Longitudinal	13	20	9496145	C	A	0.9851462	0.0144155	41067	592	1
LTX097_105031	LTX097:19:1110809:G	Longitudinal	13	19	1110809	G	C	0.992464	0.007536	4379	33	1
LTX097_105031	LTX097:5:52386370:T	Longitudinal	13	5	52386370	T	C	0.9998892	8.866E-05	45114	4	0
LTX097_111905	LTX097:1:209933487:T	Longitudinal	13	1	209933487	T	A	0.9667581	0.0330566	26984	892	1
LTX097_111905	LTX097:17:7577580:T	Longitudinal	13	17	7577580	T	C	0.9845989	0.0153164	35387	542	1
LTX097_111905	LTX097:1:156849828:C	Longitudinal	13	1	156849828	C	A	0.9539755	0.0457187	26160	1196	1
LTX097_111905	LTX097:1:115256529:T	Longitudinal	13	1	115256529	T	C	0.9733178	0.0265368	27509	730	1
LTX097_111905	LTX097:2:178098966:C	Longitudinal	13	2	178098966	C	T	0.9831128	0.0168623	40208	678	1
LTX097_111905	LTX097:2:178098808:C	Longitudinal	13	2	178098808	C	G	0.979669	0.0200821	40185	807	1
LTX097_111905	LTX097:4:123246416:G	Longitudinal	13	4	123246416	G	C	0.9898743	0.0098725	55305	546	1
LTX097_111905	LTX097:9:24545427:A	Longitudinal	13	9	24545427	A	T	0.9895489	0.0100994	51191	517	1
LTX097_111905	LTX097:22:37903864:A	Longitudinal	13	22	37903864	A	C	0.9992692	0.000522	38314	20	1
LTX097_111905	LTX097:5:66460021:G	Longitudinal	13	5	66460021	G	A	0.9705861	0.0294139	13667	402	1
LTX097_111905	LTX097:5:176861924:C	Longitudinal	13	5	176861924	C	G	0.9905528	0.0092664	22123	205	1
LTX097_111905	LTX097:1:2939112:G	Longitudinal	13	1	2939112	G	C	0.9894625	0.010116	40332	408	1
LTX097_111905	LTX097:5:157158565:G	Longitudinal	13	5	157158565	G	T	0.9920641	0.0075462	28226	213	1
LTX097_111905	LTX097:22:36722683:G	Longitudinal	13	22	36722683	G	A	0.9993113	0.0006622	37753	25	0
LTX097_111905	LTX097:7:98609727:G	Longitudinal	13	7	98609727	G	A	0.9905048	0.0094741	47287	448	1
LTX097_111905	LTX097:15:42059002:G	Longitudinal	13	15	42059002	G	C	0.9917539	0.0079139	51176	405	1
LTX097_111905	LTX097:2:136615556:C	Longitudinal	13	2	136615556	C	T	0.9913287	0.0086713	57085	495	1
LTX097_111905	LTX097:17:10398519:G	Longitudinal	13	17	10398519	G	A	0.9988871	0.0010201	43132	44	1
LTX097_111905	LTX097:19:3978139:G	Longitudinal	13	19	3978139	G	A	0.9995747	0.0004253	23513	10	0
LTX097_111905	LTX097:11:134018480:G	Longitudinal	13	11	134018480	G	A	0.9919296	0.0080513	52290	421	1
LTX097_111905	LTX097:16:72184618:C	Longitudinal	13	16	72184618	C	G	1	0	2621	0	0
LTX097_111905	LTX097:7:121612669:A	Longitudinal	13	7	121612669	A	C	0.9997567	0	49316	0	0
LTX097_111905	LTX097:19:39087699:G	Longitudinal	13	19	39087699	G	A	0.9997944	0.0001799	38915	7	0
LTX097_111905	LTX097:4:115585181:G	Longitudinal	13	4	115585181	G	T	0.9891324	0.0106452	71957	766	1
LTX097_111905	LTX097:19:1083272:C	Longitudinal	13	19	1083272	C	T	0.992626	0.007374	9764	72	1
LTX097_111905	LTX097:20:9496145:C	Longitudinal	13	20	9496145	C	A	0.9882252	0.0113466	42039	477	1
LTX097_111905	LTX097:19:1110809:G	Longitudinal	13	19	1110809	G	C	0.9928741	0.0071259	3368	24	1
LTX097_111905	LTX097:5:52386370:T	Longitudinal	13	5	52386370	T	C	0.9999386	4.092E-05	48881	2	0

LTX108_107463	LTX108:8:133923686:G	Longitudinal	13	8	133923686	G	T	0.9996481	1.466E-05	68202	1	0
LTX108_107463	LTX108:11:118925219:T	Longitudinal	13	11	118925219	T	A	0.9995485	6.45E-05	46515	3	0
LTX108_107463	LTX108:5:150922074:G	Longitudinal	13	5	150922074	G	C	0.9996555	0	52253	0	0
LTX108_107463	LTX108:1:19480386:T	Longitudinal	13	1	19480386	T	A	0.999768	5.354E-05	56028	3	0
LTX108_107463	LTX108:15:50288919:T	Longitudinal	13	15	50288919	T	A	0.9997636	0.0001091	54988	6	0
LTX108_107463	LTX108:7:150490198:C	Longitudinal	13	7	150490198	C	A	0.9997311	2.241E-05	44631	1	0
LTX108_107463	LTX108:12:96437132:A	Longitudinal	13	12	96437132	A	C	0.9997912	0	47891	0	0
LTX108_107463	LTX108:11:83544685:T	Longitudinal	13	11	83544685	T	A	0.999869	1.637E-05	61082	1	0
LTX108_107463	LTX108:4:31144238:C	Longitudinal	13	4	31144238	C	A	0.9996332	1.931E-05	51800	1	0
LTX108_107463	LTX108:2:202545751:C	Longitudinal	13	2	202545751	C	G	0.9997119	0	24297	0	0
LTX108_107463	LTX108:5:71756627:C	Longitudinal	13	5	71756627	C	G	0.999867	0	22562	0	0
LTX108_107463	LTX108:1:158435860:C	Longitudinal	13	1	158435860	C	G	0.999738	0	53715	0	0
LTX108_107463	LTX108:5:150723106:G	Longitudinal	13	5	150723106	G	T	0.9994419	0	50171	0	0
LTX108_107463	LTX108:8:10623135:C	Longitudinal	13	8	10623135	C	G	0.9996487	0	19928	0	0
LTX108_107463	LTX108:11:5969447:C	Longitudinal	13	11	5969447	C	A	0.9995917	0	58783	0	0
LTX108_107463	LTX108:12:93100715:G	Longitudinal	13	12	93100715	G	T	0.9997558	0	57321	0	0
LTX108_107463	LTX108:15:65759434:T	Longitudinal	13	15	65759434	T	G	0.999799	0	54736	0	0
LTX108_107463	LTX108:8:2975974:G	Longitudinal	13	8	2975974	G	T	0.9995577	0	61050	0	0
LTX108_107463	LTX108:11:4661941:G	Longitudinal	13	11	4661941	G	T	0.9996818	0	50283	0	0
LTX108_107463	LTX108:6:109762353:G	Longitudinal	13	6	109762353	G	T	0.9996109	0	10280	0	0
LTX108_107463	LTX108:12:75728663:C	Longitudinal	13	12	75728663	C	A	0.9995382	2.717E-05	36811	1	0
LTX108_107463	LTX108:7:98256550:G	Longitudinal	13	7	98256550	G	T	0.9997427	0	23322	0	0
LTX108_107463	LTX108:11:33731800:A	Longitudinal	13	11	33731800	A	C	0.9996982	0	56321	0	0
LTX108_107463	LTX108:14:88477948:G	Longitudinal	13	14	88477948	G	T	0.9994301	8.905E-05	56148	5	0
LTX108_107463	LTX108:15:42981235:G	Longitudinal	13	15	42981235	G	T	0.9997989	2.011E-05	49728	1	0
LTX108_107463	LTX108:14:56103197:G	Longitudinal	13	14	56103197	G	T	0.999594	3.531E-05	56649	2	0
LTX108_107463	LTX108:5:96071930:A	Longitudinal	13	5	96071930	A	T	0.9997677	0	47345	0	0
LTX108_107463	LTX108:14:38724919:G	Longitudinal	13	14	38724919	G	T	0.999789	7.032E-05	14221	1	0
LTX108_109285	LTX108:8:133923686:G	Longitudinal	13	8	133923686	G	T	0.9990458	0.0006202	83839	52	1
LTX108_109285	LTX108:11:118925219:T	Longitudinal	13	11	118925219	T	A	0.9991879	0.0003283	57874	19	1
LTX108_109285	LTX108:5:150922074:G	Longitudinal	13	5	150922074	G	C	0.9994924	0.0002461	65015	16	1
LTX108_109285	LTX108:1:19480386:T	Longitudinal	13	1	19480386	T	A	0.9992605	0.0005365	68966	37	1
LTX108_109285	LTX108:15:50288919:T	Longitudinal	13	15	50288919	T	A	0.9992573	0.0005912	65973	39	1
LTX108_109285	LTX108:7:150490198:C	Longitudinal	13	7	150490198	C	A	0.9996087	0.0002471	48560	12	1
LTX108_109285	LTX108:12:96437132:A	Longitudinal	13	12	96437132	A	C	0.9991169	0.0006358	56619	36	1
LTX108_109285	LTX108:11:83544685:T	Longitudinal	13	11	83544685	T	A	0.9991572	0.0006288	74751	47	1
LTX108_109285	LTX108:4:31144238:C	Longitudinal	13	4	31144238	C	A	0.9988001	0.0007267	59171	43	1
LTX108_109285	LTX108:2:202545751:C	Longitudinal	13	2	202545751	C	G	0.9995268	0	31702	0	0

LTX108_109285	LTX108:5:71756627:C	Longitudinal	13	5	71756627	C	G	0.9996132	0.000211	28440	6	1
LTX108_109285	LTX108:1:158435860:C	Longitudinal	13	1	158435860	C	G	0.9988634	0.0006216	56310	35	1
LTX108_109285	LTX108:5:150723106:G	Longitudinal	13	5	150723106	G	T	0.9994105	0.0002358	59368	14	0
LTX108_109285	LTX108:8:10623135:C	Longitudinal	13	8	10623135	C	G	0.9987448	0.000606	23103	14	1
LTX108_109285	LTX108:11:5969447:C	Longitudinal	13	11	5969447	C	A	0.9992436	0.0004709	70073	33	1
LTX108_109285	LTX108:12:93100715:G	Longitudinal	13	12	93100715	G	T	0.9992554	0.0004818	68490	33	1
LTX108_109285	LTX108:15:65759434:T	Longitudinal	13	15	65759434	T	G	0.9995062	0.0001888	68849	13	1
LTX108_109285	LTX108:8:2975974:G	Longitudinal	13	8	2975974	G	T	0.9993841	0.0003481	74687	26	1
LTX108_109285	LTX108:11:4661941:G	Longitudinal	13	11	4661941	G	T	0.9992999	0.0004559	61419	28	1
LTX108_109285	LTX108:6:109762353:G	Longitudinal	13	6	109762353	G	T	0.997597	0.001691	11236	19	1
LTX108_109285	LTX108:12:75728663:C	Longitudinal	13	12	75728663	C	A	0.9986984	0.0010649	42256	45	1
LTX108_109285	LTX108:7:98256550:G	Longitudinal	13	7	98256550	G	T	0.9992497	0.0006074	27989	17	1
LTX108_109285	LTX108:11:33731800:A	Longitudinal	13	11	33731800	A	C	0.9995506	0.0002696	66758	18	1
LTX108_109285	LTX108:14:88477948:G	Longitudinal	13	14	88477948	G	T	0.998088	0.0016008	67467	108	1
LTX108_109285	LTX108:15:42981235:G	Longitudinal	13	15	42981235	G	T	0.9992597	0.0004206	59432	25	1
LTX108_109285	LTX108:14:56103197:G	Longitudinal	13	14	56103197	G	T	0.9994587	0.0003158	66506	21	1
LTX108_109285	LTX108:5:96071930:A	Longitudinal	13	5	96071930	A	T	0.9997548	0.0002102	57096	12	1
LTX108_109285	LTX108:14:38724919:G	Longitudinal	13	14	38724919	G	T	0.9986248	0.0010164	16725	17	1
LTX108_109096	LTX108:8:133923686:G	Longitudinal	13	8	133923686	G	T	0.9983837	0.0013604	74243	101	1
LTX108_109096	LTX108:11:118925219:T	Longitudinal	13	11	118925219	T	A	0.9992849	0.0004334	46145	20	1
LTX108_109096	LTX108:5:150922074:G	Longitudinal	13	5	150922074	G	C	0.9993684	0.0002166	55412	12	1
LTX108_109096	LTX108:1:19480386:T	Longitudinal	13	1	19480386	T	A	0.9988846	0.0009802	59173	58	1
LTX108_109096	LTX108:15:50288919:T	Longitudinal	13	15	50288919	T	A	0.9992605	0.0006162	56798	35	1
LTX108_109096	LTX108:7:150490198:C	Longitudinal	13	7	150490198	C	A	0.9990546	0.0005595	51829	29	1
LTX108_109096	LTX108:12:96437132:A	Longitudinal	13	12	96437132	A	C	0.9989919	0.0007351	47612	35	1
LTX108_109096	LTX108:11:83544685:T	Longitudinal	13	11	83544685	T	A	0.9990254	0.000859	60538	52	1
LTX108_109096	LTX108:4:31144238:C	Longitudinal	13	4	31144238	C	A	0.9989675	0.0007021	48425	34	1
LTX108_109096	LTX108:2:202545751:C	Longitudinal	13	2	202545751	C	G	0.9994844	3.683E-05	27151	1	0
LTX108_109096	LTX108:5:71756627:C	Longitudinal	13	5	71756627	C	G	0.9986264	0.0009652	26937	26	1
LTX108_109096	LTX108:1:158435860:C	Longitudinal	13	1	158435860	C	G	0.9992126	0.0004395	54611	24	1
LTX108_109096	LTX108:5:150723106:G	Longitudinal	13	5	150723106	G	T	0.9993205	0.0002912	51506	15	0
LTX108_109096	LTX108:8:10623135:C	Longitudinal	13	8	10623135	C	G	0.998099	0.0009505	21042	20	1
LTX108_109096	LTX108:11:5969447:C	Longitudinal	13	11	5969447	C	A	0.9992684	0.0002926	61509	18	1
LTX108_109096	LTX108:12:93100715:G	Longitudinal	13	12	93100715	G	T	0.9992639	0.0005071	61134	31	1
LTX108_109096	LTX108:15:65759434:T	Longitudinal	13	15	65759434	T	G	0.9991974	0.0006456	57315	37	1
LTX108_109096	LTX108:8:2975974:G	Longitudinal	13	8	2975974	G	T	0.9994043	0.0003574	58750	21	1
LTX108_109096	LTX108:11:4661941:G	Longitudinal	13	11	4661941	G	T	0.9995287	0.0003016	53045	16	1
LTX108_109096	LTX108:6:109762353:G	Longitudinal	13	6	109762353	G	T	0.9985386	0.0010438	9580	10	1

LTX108_109096	LTX108:12:75728663:C	Longitudinal	13	12	75728663	C	A	0.9987319	0.0009732	33908	33	1
LTX108_109096	LTX108:7:98256550:G	Longitudinal	13	7	98256550	G	T	0.9988687	0.0007542	26519	20	1
LTX108_109096	LTX108:11:33731800:A	Longitudinal	13	11	33731800	A	C	0.9992535	0.0006221	56263	35	1
LTX108_109096	LTX108:14:88477948:G	Longitudinal	13	14	88477948	G	T	0.9985961	0.0011582	56983	66	1
LTX108_109096	LTX108:15:42981235:G	Longitudinal	13	15	42981235	G	T	0.9992251	0.0004244	54198	23	1
LTX108_109096	LTX108:14:56103197:G	Longitudinal	13	14	56103197	G	T	0.9985602	0.0012211	54867	67	1
LTX108_109096	LTX108:5:96071930:A	Longitudinal	13	5	96071930	A	T	0.9996813	0.0002049	43928	9	1
LTX108_109096	LTX108:14:38724919:G	Longitudinal	13	14	38724919	G	T	0.9992083	0.0003598	13895	5	1
LTX108_107511	LTX108:8:133923686:G	Longitudinal	13	8	133923686	G	T	0.9996344	0	51975	0	0
LTX108_107511	LTX108:11:118925219:T	Longitudinal	13	11	118925219	T	A	0.9995197	0.000113	35391	4	0
LTX108_107511	LTX108:5:150922074:G	Longitudinal	13	5	150922074	G	C	0.9995949	4.765E-05	41969	2	0
LTX108_107511	LTX108:1:19480386:T	Longitudinal	13	1	19480386	T	A	0.9997371	2.39E-05	41843	1	0
LTX108_107511	LTX108:15:50288919:T	Longitudinal	13	15	50288919	T	A	0.9999025	2.438E-05	41021	1	0
LTX108_107511	LTX108:7:150490198:C	Longitudinal	13	7	150490198	C	A	0.9997248	3.058E-05	32701	1	0
LTX108_107511	LTX108:12:96437132:A	Longitudinal	13	12	96437132	A	C	0.9996439	0	39314	0	0
LTX108_107511	LTX108:11:83544685:T	Longitudinal	13	11	83544685	T	A	0.9999349	0	46106	0	0
LTX108_107511	LTX108:4:31144238:C	Longitudinal	13	4	31144238	C	A	0.999616	0	39064	0	0
LTX108_107511	LTX108:2:202545751:C	Longitudinal	13	2	202545751	C	G	0.9999443	0	17956	0	0
LTX108_107511	LTX108:5:71756627:C	Longitudinal	13	5	71756627	C	G	0.9996016	9.96E-05	20080	2	0
LTX108_107511	LTX108:1:158435860:C	Longitudinal	13	1	158435860	C	G	0.9995562	0	40555	0	0
LTX108_107511	LTX108:5:150723106:G	Longitudinal	13	5	150723106	G	T	0.9996686	0	39226	0	0
LTX108_107511	LTX108:8:10623135:C	Longitudinal	13	8	10623135	C	G	0.9995383	5.772E-05	17326	1	0
LTX108_107511	LTX108:11:5969447:C	Longitudinal	13	11	5969447	C	A	0.99972	0	42855	0	0
LTX108_107511	LTX108:12:93100715:G	Longitudinal	13	12	93100715	G	T	0.9993852	4.24E-05	47167	2	0
LTX108_107511	LTX108:15:65759434:T	Longitudinal	13	15	65759434	T	G	0.9996663	0	41954	0	0
LTX108_107511	LTX108:8:2975974:G	Longitudinal	13	8	2975974	G	T	0.999868	0	45438	0	0
LTX108_107511	LTX108:11:4661941:G	Longitudinal	13	11	4661941	G	T	0.9995551	0	40461	0	0
LTX108_107511	LTX108:6:109762353:G	Longitudinal	13	6	109762353	G	T	0.9991492	0	8228	0	0
LTX108_107511	LTX108:12:75728663:C	Longitudinal	13	12	75728663	C	A	0.9993599	0.0001348	29683	4	0
LTX108_107511	LTX108:7:98256550:G	Longitudinal	13	7	98256550	G	T	0.9995376	0	17302	0	0
LTX108_107511	LTX108:11:33731800:A	Longitudinal	13	11	33731800	A	C	0.9998327	0	41845	0	0
LTX108_107511	LTX108:14:88477948:G	Longitudinal	13	14	88477948	G	T	0.9995459	2.39E-05	41842	1	0
LTX108_107511	LTX108:15:42981235:G	Longitudinal	13	15	42981235	G	T	0.9996903	2.581E-05	38751	1	0
LTX108_107511	LTX108:14:56103197:G	Longitudinal	13	14	56103197	G	T	0.999645	2.536E-05	39439	1	0
LTX108_107511	LTX108:5:96071930:A	Longitudinal	13	5	96071930	A	T	0.9997182	0	35491	0	0
LTX108_107511	LTX108:14:38724919:G	Longitudinal	13	14	38724919	G	T	0.9995007	0	12017	0	0
LTX210_105585	LTX210:10:135084385:C	Longitudinal	13	10	135084385	C	A	0.9996861	0.0003139	6371	2	0
LTX210_105585	LTX210:4:164449923:G	Longitudinal	13	4	164449923	G	T	0.9995996	8.008E-05	37464	3	0

LTX210_105585	LTX210:1:150337375:G	Longitudinal	13	1	150337375	G	T	0.9978715	0.0019765	19732	39	1
LTX210_105585	LTX210:1:247875253:C	Longitudinal	13	1	247875253	C	A	0.9986179	0.0008062	52096	42	1
LTX210_105585	LTX210:14:75134297:C	Longitudinal	13	14	75134297	C	A	0.999313	0.0003926	40756	16	1
LTX210_105585	LTX210:13:98043699:G	Longitudinal	13	13	98043699	G	T	0.9992187	0.0004041	37119	15	1
LTX210_105585	LTX210:8:92998492:C	Longitudinal	13	8	92998492	C	A	0.99897	0.0006295	34951	22	1
LTX210_105585	LTX210:6:28403341:T	Longitudinal	13	6	28403341	T	G	0.99955	0	44442	0	0
LTX210_105585	LTX210:8:23709022:C	Longitudinal	13	8	23709022	C	A	0.9995953	0	32121	0	0
LTX210_105585	LTX210:19:32083623:C	Longitudinal	13	19	32083623	C	A	0.9987237	0.0009116	43878	40	1
LTX210_105585	LTX210:20:57876633:C	Longitudinal	13	20	57876633	C	G	0.9991656	0.0004867	14382	7	1
LTX210_105585	LTX210:14:64924932:A	Longitudinal	13	14	64924932	A	T	0.9992768	0.0003726	45630	17	1
LTX210_105585	LTX210:1:152057868:G	Longitudinal	13	1	152057868	G	T	0.999607	8.732E-05	45807	4	0
LTX210_105585	LTX210:11:56467960:G	Longitudinal	13	11	56467960	G	T	0.9992349	0.0002638	113716	30	1
LTX210_105585	LTX210:13:86369947:A	Longitudinal	13	13	86369947	A	T	0.9996886	8.303E-05	48173	4	0
LTX210_105585	LTX210:2:186656211:A	Longitudinal	13	2	186656211	A	T	0.9992777	0.0005729	40147	23	1
LTX210_105585	LTX210:7:84694809:G	Longitudinal	13	7	84694809	G	C	0.9993006	0.0004239	47181	20	1
LTX210_105585	LTX210:7:45124878:C	Longitudinal	13	7	45124878	C	G	0.9992713	0	35678	0	0
LTX210_105585	LTX210:1:158617494:T	Longitudinal	13	1	158617494	T	G	0.9997142	0	31486	0	0
LTX210_105585	LTX210:9:139409757:C	Longitudinal	13	9	139409757	C	T	0.9998534	0.0001466	20467	3	0
LTX210_105585	LTX210:19:57325219:T	Longitudinal	13	19	57325219	T	A	0.9997065	0	34075	0	0
LTX210_105585	LTX210:1:89732158:G	Longitudinal	13	1	89732158	G	T	0.9995856	2.59E-05	38606	1	0
LTX210_105585	LTX210:4:15444043:C	Longitudinal	13	4	15444043	C	A	0.9993317	0	32918	0	0
LTX210_105585	LTX210:19:1207033:A	Longitudinal	13	19	1207033	A	T	1	0	12038	0	0
LTX210_105585	LTX210:14:71540318:G	Longitudinal	13	14	71540318	G	T	0.9996149	0.0001777	33757	6	0
LTX210_105585	LTX210:12:130926393:C	Longitudinal	13	12	130926393	C	A	0.9986377	0.0010217	11745	12	1
LTX210_105585	LTX210:15:85406083:G	Longitudinal	13	15	85406083	G	C	0.9994088	4.73E-05	42284	2	0
LTX210_105585	LTX210:X:147733580:A	Longitudinal	13	23	147733580	A	C	0.9996412	5.126E-05	19510	1	1
LTX210_105585	LTX210:X:26236064:A	Longitudinal	13	23	26236064	A	T	0.9997361	8.797E-05	22734	2	0
LTX210_105585	LTX210:X:92927241:T	Longitudinal	13	23	92927241	T	G	0.9998056	0	15429	0	0
LTX019_105069	LTX019:7:127013601:T	Longitudinal	13	7	127013601	T	A	0.9997433	0	50637	0	0
LTX019_105069	LTX019:9:136231864:G	Longitudinal	13	9	136231864	G	C	0.9996333	0	51809	0	0
LTX019_105069	LTX019:3:119530387:G	Longitudinal	13	3	119530387	G	T	0.9997189	3.514E-05	28456	1	0
LTX019_105069	LTX019:22:41574949:G	Longitudinal	13	22	41574949	G	C	0.9997064	0	44280	0	0
LTX019_105069	LTX019:8:42821731:C	Longitudinal	13	8	42821731	C	G	0.9996946	0	58937	0	0
LTX019_105069	LTX019:19:39914989:T	Longitudinal	13	19	39914989	T	G	0.9994414	0	30435	0	0
LTX019_105069	LTX019:15:78921901:A	Longitudinal	13	15	78921901	A	C	0.9994003	0	46688	0	0
LTX019_105069	LTX019:2:47637426:T	Longitudinal	13	2	47637426	T	A	0.999735	4.417E-05	45284	2	0
LTX019_105069	LTX019:8:62212481:C	Longitudinal	13	8	62212481	C	A	0.9995407	0	41364	0	0
LTX019_105069	LTX019:2:100168048:T	Longitudinal	13	2	100168048	T	C	0.9997567	0.0002433	16443	4	0

LTX019_105069	LTX019:2:74733940:C	Longitudinal	13	2	74733940	C	G	0.9994433	1.796E-05	55685	1	0
LTX019_105069	LTX019:17:40870017:C	Longitudinal	13	17	40870017	C	A	0.9997891	0	52150	0	0
LTX019_105069	LTX019:14:31602819:C	Longitudinal	13	14	31602819	C	G	0.9996308	4.102E-05	48755	2	0
LTX019_105069	LTX019:11:119547900:C	Longitudinal	13	11	119547900	C	G	0.999744	0	66405	0	0
LTX019_105069	LTX019:11:55587191:T	Longitudinal	13	11	55587191	T	G	0.9998701	5.196E-05	38490	2	0
LTX019_105069	LTX019:4:44450329:G	Longitudinal	13	4	44450329	G	T	0.9995766	5.293E-05	18893	1	0
LTX019_105069	LTX019:5:142258975:G	Longitudinal	13	5	142258975	G	T	0.9992808	3.425E-05	58401	2	0
LTX019_105069	LTX019:17:29576091:C	Longitudinal	13	17	29576091	C	G	0.9997076	0	37616	0	0
LTX210_117504	LTX210:10:135084385:C	Longitudinal	13	10	135084385	C	A	0.9988582	0	4379	0	0
LTX210_117504	LTX210:4:164449923:G	Longitudinal	13	4	164449923	G	T	0.9994531	6.562E-05	45716	3	0
LTX210_117504	LTX210:1:150337375:G	Longitudinal	13	1	150337375	G	T	0.9996069	0	22893	0	0
LTX210_117504	LTX210:1:24787525:C	Longitudinal	13	1	24787525	C	A	0.9993677	0	53768	0	0
LTX210_117504	LTX210:14:75134297:C	Longitudinal	13	14	75134297	C	A	0.9996866	0	44677	0	0
LTX210_117504	LTX210:13:98043699:G	Longitudinal	13	13	98043699	G	T	0.999705	0	44075	0	0
LTX210_117504	LTX210:8:92998492:C	Longitudinal	13	8	92998492	C	A	0.9995114	2.443E-05	40933	1	0
LTX210_117504	LTX210:6:28403341:T	Longitudinal	13	6	28403341	T	G	0.9996406	0	47301	0	0
LTX210_117504	LTX210:8:23709022:C	Longitudinal	13	8	23709022	C	A	0.9997172	0	35358	0	0
LTX210_117504	LTX210:19:32083623:C	Longitudinal	13	19	32083623	C	A	0.9994299	2.193E-05	45610	1	0
LTX210_117504	LTX210:20:57876633:C	Longitudinal	13	20	57876633	C	G	0.9995364	0	10785	0	0
LTX210_117504	LTX210:14:64924932:A	Longitudinal	13	14	64924932	A	T	0.9997923	3.777E-05	52952	2	0
LTX210_117504	LTX210:1:152057868:G	Longitudinal	13	1	152057868	G	T	0.9997679	2.11E-05	47402	1	0
LTX210_117504	LTX210:11:56467960:G	Longitudinal	13	11	56467960	G	T	0.9995655	3.049E-05	131200	4	0
LTX210_117504	LTX210:13:86369947:A	Longitudinal	13	13	86369947	A	T	0.9997325	5.733E-05	52330	3	0
LTX210_117504	LTX210:2:186656211:A	Longitudinal	13	2	186656211	A	T	0.9999173	0	48351	0	0
LTX210_117504	LTX210:7:84694809:G	Longitudinal	13	7	84694809	G	C	0.9995019	1.992E-05	50191	1	0
LTX210_117504	LTX210:7:45124878:C	Longitudinal	13	7	45124878	C	G	0.9995839	0	28841	0	0
LTX210_117504	LTX210:1:158617494:T	Longitudinal	13	1	158617494	T	G	0.999631	0	29814	0	0
LTX210_117504	LTX210:9:139409757:C	Longitudinal	13	9	139409757	C	T	0.9997552	0.0002448	16343	4	0
LTX210_117504	LTX210:19:57325219:T	Longitudinal	13	19	57325219	T	A	0.9998783	7.303E-05	41078	3	0
LTX210_117504	LTX210:1:89732158:G	Longitudinal	13	1	89732158	G	T	0.9994707	5.571E-05	35898	2	0
LTX210_117504	LTX210:4:15444043:C	Longitudinal	13	4	15444043	C	A	0.9998273	2.878E-05	34742	1	0
LTX210_117504	LTX210:19:1207033:A	Longitudinal	13	19	1207033	A	T	0.9998071	0.0001929	10366	2	0
LTX210_117504	LTX210:14:71540318:G	Longitudinal	13	14	71540318	G	T	0.9997762	8.393E-05	35743	3	0
LTX210_117504	LTX210:12:130926393:C	Longitudinal	13	12	130926393	C	A	0.9997004	0	10013	0	0
LTX210_117504	LTX210:15:85406083:G	Longitudinal	13	15	85406083	G	C	0.9996151	0	38976	0	0
LTX210_117504	LTX210:X:147733580:A	Longitudinal	13	23	147733580	A	C	0.999862	0	21733	0	0
LTX210_117504	LTX210:X:26236064:A	Longitudinal	13	23	26236064	A	T	0.9997317	7.667E-05	26086	2	0
LTX210_117504	LTX210:X:92927241:T	Longitudinal	13	23	92927241	T	G	0.9997812	0	18284	0	0

LTX210_105543	LTX210:10:135084385:C	Longitudinal	13	10	135084385	C	A	0.9971274	0.0025535	6266	16	1
LTX210_105543	LTX210:4:164449923:G	Longitudinal	13	4	164449923	G	T	0.9991088	0.0005941	57228	34	1
LTX210_105543	LTX210:1:150337375:G	Longitudinal	13	1	150337375	G	T	0.9975392	0.0021983	30478	67	1
LTX210_105543	LTX210:1:247875253:C	Longitudinal	13	1	247875253	C	A	0.9984589	0.0013063	68132	89	1
LTX210_105543	LTX210:14:75134297:C	Longitudinal	13	14	75134297	C	A	0.9979738	0.0015561	61693	96	1
LTX210_105543	LTX210:13:98043699:G	Longitudinal	13	13	98043699	G	T	0.9987704	0.0009352	57744	54	1
LTX210_105543	LTX210:8:92998492:C	Longitudinal	13	8	92998492	C	A	0.998241	0.0013439	50598	68	1
LTX210_105543	LTX210:6:28403341:T	Longitudinal	13	6	28403341	T	G	0.9984574	0.0011745	57045	67	1
LTX210_105543	LTX210:8:23709022:C	Longitudinal	13	8	23709022	C	A	0.9992867	0.000379	44860	17	1
LTX210_105543	LTX210:19:32083623:C	Longitudinal	13	19	32083623	C	A	0.9988007	0.0009161	60036	55	1
LTX210_105543	LTX210:20:57876633:C	Longitudinal	13	20	57876633	C	G	0.9983881	0.0010961	15510	17	1
LTX210_105543	LTX210:14:64924932:A	Longitudinal	13	14	64924932	A	T	0.9993073	0.0005155	62075	32	1
LTX210_105543	LTX210:1:152057868:G	Longitudinal	13	1	152057868	G	T	0.9989817	0.0006845	59902	41	1
LTX210_105543	LTX210:11:56467960:G	Longitudinal	13	11	56467960	G	T	0.9985684	0.0009675	152974	148	1
LTX210_105543	LTX210:13:86369947:A	Longitudinal	13	13	86369947	A	T	0.9997931	7.959E-05	62821	5	0
LTX210_105543	LTX210:2:186656211:A	Longitudinal	13	2	186656211	A	T	0.999148	0.0006554	61030	40	1
LTX210_105543	LTX210:7:84694809:G	Longitudinal	13	7	84694809	G	C	0.9985913	0.0010062	64600	65	1
LTX210_105543	LTX210:7:45124878:C	Longitudinal	13	7	45124878	C	G	0.9995026	2.618E-05	38202	1	0
LTX210_105543	LTX210:1:158617494:T	Longitudinal	13	1	158617494	T	G	0.9997958	0	39174	0	0
LTX210_105543	LTX210:9:139409757:C	Longitudinal	13	9	139409757	C	T	0.9996592	0.0003029	26409	8	0
LTX210_105543	LTX210:19:57325219:T	Longitudinal	13	19	57325219	T	A	0.9997181	0.0001208	49661	6	0
LTX210_105543	LTX210:1:89732158:G	Longitudinal	13	1	89732158	G	T	0.999401	3.864E-05	51756	2	0
LTX210_105543	LTX210:4:15444043:C	Longitudinal	13	4	15444043	C	A	0.9996738	2.33E-05	42913	1	0
LTX210_105543	LTX210:19:1207033:A	Longitudinal	13	19	1207033	A	T	0.9981026	0.0016264	18446	30	1
LTX210_105543	LTX210:14:71540318:G	Longitudinal	13	14	71540318	G	T	0.9977067	0.0020728	45350	94	1
LTX210_105543	LTX210:12:130926393:C	Longitudinal	13	12	130926393	C	A	0.9975116	0.0022476	12458	28	1
LTX210_105543	LTX210:15:85406083:G	Longitudinal	13	15	85406083	G	C	0.9989298	0.0008026	52328	42	1
LTX210_105543	LTX210:X:147733580:A	Longitudinal	13	23	147733580	A	C	0.9996161	0	28653	0	0
LTX210_105543	LTX210:X:26236064:A	Longitudinal	13	23	26236064	A	T	0.9998154	0	32511	0	0
LTX210_105543	LTX210:X:92927241:T	Longitudinal	13	23	92927241	T	G	0.9998219	0	22459	0	0
LTX019	LTX019:7:127013601:T	Baseline	13	7	127013601	T	A	0.9979846	0.0018191	132483	241	1
LTX019	LTX019:9:136231864:G	Baseline	13	9	136231864	G	C	0.9978658	0.0018555	114795	213	1
LTX019	LTX019:3:119530387:G	Baseline	13	3	119530387	G	T	0.9967316	0.00298	52014	155	1
LTX019	LTX019:22:41574949:G	Baseline	13	22	41574949	G	C	0.9979292	0.0016904	118312	200	1
LTX019	LTX019:8:42821731:C	Baseline	13	8	42821731	C	G	0.9977157	0.0020305	137896	280	1
LTX019	LTX019:19:39914989:T	Baseline	13	19	39914989	T	G	0.9977633	0.0021539	60356	130	1
LTX019	LTX019:15:78921901:A	Baseline	13	15	78921901	A	C	0.9970044	0.0025196	86125	217	1
LTX019	LTX019:2:47637426:T	Baseline	13	2	47637426	T	A	0.9981925	0.0017533	110648	194	1

LTX019	LTX019:8:62212481:C	Baseline	13	8	62212481	C	A	0.9969683	0.0027339	110830	303	1
LTX019	LTX019:2:100168048:T	Baseline	13	2	100168048	T	C	0.9975507	0.0024208	35112	85	1
LTX019	LTX019:2:74733940:C	Baseline	13	2	74733940	C	G	0.9980253	0.0014915	120017	179	1
LTX019	LTX019:17:40870017:C	Baseline	13	17	40870017	C	A	0.9975472	0.0021683	130058	282	1
LTX019	LTX019:14:31602819:C	Baseline	13	14	31602819	C	G	0.9990352	0.0006485	126454	82	1
LTX019	LTX019:11:119547900:C	Baseline	13	11	119547900	C	G	0.9994211	0.0001586	126103	20	1
LTX019	LTX019:11:55587191:T	Baseline	13	11	55587191	T	G	0.9997621	2.974E-05	100887	3	0
LTX019	LTX019:4:44450329:G	Baseline	13	4	44450329	G	T	0.9994373	0.0001481	33763	5	0
LTX019	LTX019:5:142258975:G	Baseline	13	5	142258975	G	T	0.9950771	0.0047088	140162	660	1
LTX019	LTX019:17:29576091:C	Baseline	13	17	29576091	C	G	0.9980795	0.0015281	96852	148	1
LTX022	LTX022:1:247836132:G	Baseline	13	1	247836132	G	T	0.9960233	0.003686	96310	355	1
LTX022	LTX022:17:7578190:T	Baseline	13	17	7578190	T	C	0.995056	0.0049101	59062	290	1
LTX022	LTX022:5:167645878:T	Baseline	13	5	167645878	T	G	0.9975021	0.0022794	137315	313	1
LTX022	LTX022:9:123220803:C	Baseline	13	9	123220803	C	G	0.9996854	2.551E-05	117605	3	0
LTX022	LTX022:6:155153840:A	Baseline	13	6	155153840	A	G	0.9988721	0.0010738	110821	119	1
LTX022	LTX022:7:117432761:C	Baseline	13	7	117432761	C	A	0.9965202	0.0031466	27013	85	1
LTX022	LTX022:9:97887448:C	Baseline	13	9	97887448	C	A	0.9986284	0.0010652	143633	153	1
LTX022	LTX022:18:47802230:C	Baseline	13	18	47802230	C	A	0.9977063	0.0019021	17875	34	1
LTX022	LTX022:12:129559276:C	Baseline	13	12	129559276	C	T	0.9986217	0.0013595	52962	72	1
LTX022	LTX022:18:47800615:C	Baseline	13	18	47800615	C	A	0.9964957	0.0030264	6278	19	1
LTX022	LTX022:8:70674006:G	Baseline	13	8	70674006	G	T	0.999446	0.0003096	122745	38	1
LTX022	LTX022:2:1168816:T	Baseline	13	2	1168816	T	C	0.9997034	0.000261	84301	22	0
LTX022	LTX022:9:35714237:T	Baseline	13	9	35714237	T	C	0.9979173	0.0020591	42252	87	1
LTX022	LTX022:9:95841793:G	Baseline	13	9	95841793	G	C	0.99882	0.0006069	29660	18	1
LTX022	LTX022:19:6732134:C	Baseline	13	19	6732134	C	G	0.9998773	0	8147	0	0
LTX022	LTX022:18:22807056:C	Baseline	13	18	22807056	C	A	0.9986221	0.0011364	70398	80	1
LTX022	LTX022:4:187532858:C	Baseline	13	4	187532858	C	A	0.9988778	0.0007722	82875	64	1
LTX022	LTX022:5:176710869:A	Baseline	13	5	176710869	A	T	0.9993405	0.0005587	109180	61	1
LTX022	LTX022:8:88365909:G	Baseline	13	8	88365909	G	T	0.9974521	0.0023355	117746	275	1
LTX097	LTX097:1:209933487:T	Baseline	13	1	209933487	T	A	0.9589639	0.0409019	29803	1219	1
LTX097	LTX097:17:7577580:T	Baseline	13	17	7577580	T	C	0.9734697	0.026483	42329	1121	1
LTX097	LTX097:1:156849828:C	Baseline	13	1	156849828	C	A	0.9475389	0.0517537	26858	1390	1
LTX097	LTX097:1:115256529:T	Baseline	13	1	115256529	T	C	0.9686322	0.0312088	44026	1374	1
LTX097	LTX097:2:178098966:C	Baseline	13	2	178098966	C	T	0.979722	0.020278	70569	1431	1
LTX097	LTX097:2:178098808:C	Baseline	13	2	178098808	C	G	0.9737637	0.0259616	69179	1796	1
LTX097	LTX097:4:123246416:G	Baseline	13	4	123246416	G	C	0.9841743	0.0155395	94340	1466	1
LTX097	LTX097:9:24545427:A	Baseline	13	9	24545427	A	T	0.9890763	0.0106184	72045	765	1
LTX097	LTX097:22:37903864:A	Baseline	13	22	37903864	A	C	0.9957486	0.004121	38340	158	1

LTX097	LTX097:5:66460021:G	Baseline	13	5	66460021	G	A	0.9481111	0.0518889	15803	820	1
LTX097	LTX097:5:176861924:C	Baseline	13	5	176861924	C	G	0.9863579	0.0133429	16713	223	1
LTX097	LTX097:1:2939112:G	Baseline	13	1	2939112	G	C	0.9819665	0.0174666	45859	801	1
LTX097	LTX097:5:157158565:G	Baseline	13	5	157158565	G	T	0.9865707	0.0130401	35966	469	1
LTX097	LTX097:22:36722683:G	Baseline	13	22	36722683	G	A	0.9991231	0.0008769	46755	41	0
LTX097	LTX097:7:98609727:G	Baseline	13	7	98609727	G	A	0.9860871	0.0138537	67563	936	1
LTX097	LTX097:15:42059002:G	Baseline	13	15	42059002	G	C	0.9889375	0.010557	85062	898	1
LTX097	LTX097:2:136615556:C	Baseline	13	2	136615556	C	T	0.9886285	0.0112962	92952	1050	1
LTX097	LTX097:17:10398519:G	Baseline	13	17	10398519	G	A	0.9985683	0.0014317	62162	89	1
LTX097	LTX097:19:3978139:G	Baseline	13	19	3978139	G	A	0.9995343	0.0004657	32208	15	0
LTX097	LTX097:11:134018480:G	Baseline	13	11	134018480	G	A	0.9902333	0.0097158	78532	763	1
LTX097	LTX097:16:72184618:C	Baseline	13	16	72184618	C	G	0.9994868	0	3897	0	0
LTX097	LTX097:7:121612669:A	Baseline	13	7	121612669	A	C	0.9996314	0.0002734	84111	23	1
LTX097	LTX097:19:39087699:G	Baseline	13	19	39087699	G	A	0.9993646	0.0005673	44070	25	0
LTX097	LTX097:4:115585181:G	Baseline	13	4	115585181	G	T	0.9850568	0.0146724	125542	1842	1
LTX097	LTX097:19:1083272:C	Baseline	13	19	1083272	C	T	0.9885028	0.0114972	7741	89	1
LTX097	LTX097:20:9496145:C	Baseline	13	20	9496145	C	A	0.9848564	0.0148811	76204	1134	1
LTX097	LTX097:19:1110809:G	Baseline	13	19	1110809	G	C	0.992597	0.0072029	4998	36	1
LTX097	LTX097:5:52386370:T	Baseline	13	5	52386370	T	C	0.9999114	5.062E-05	79014	4	0
LTX108	LTX108:8:133923686:G	Baseline	13	8	133923686	G	T	0.9997735	7.551E-06	132430	1	0
LTX108	LTX108:11:118925219:T	Baseline	13	11	118925219	T	A	0.9996223	3.147E-05	95320	3	0
LTX108	LTX108:5:150922074:G	Baseline	13	5	150922074	G	C	0.9996329	0	100779	0	0
LTX108	LTX108:1:19480386:T	Baseline	13	1	19480386	T	A	0.999723	2.681E-05	111896	3	0
LTX108	LTX108:15:50288919:T	Baseline	13	15	50288919	T	A	0.9998305	3.568E-05	112101	4	0
LTX108	LTX108:7:150490198:C	Baseline	13	7	150490198	C	A	0.999699	0	76400	0	0
LTX108	LTX108:12:96437132:A	Baseline	13	12	96437132	A	C	0.9998373	0	98362	0	0
LTX108	LTX108:11:83544685:T	Baseline	13	11	83544685	T	A	0.9997704	3.168E-05	126280	4	0
LTX108	LTX108:4:31144238:C	Baseline	13	4	31144238	C	A	0.9995853	2.023E-05	98872	2	0
LTX108	LTX108:2:202545751:C	Baseline	13	2	202545751	C	G	0.9997446	0	46993	0	0
LTX108	LTX108:5:71756627:C	Baseline	13	5	71756627	C	G	0.9997839	0	46269	0	0
LTX108	LTX108:1:158435860:C	Baseline	13	1	158435860	C	G	0.9996396	1.948E-05	102655	2	0
LTX108	LTX108:5:150723106:G	Baseline	13	5	150723106	G	T	0.9996781	4.154E-05	96304	4	0
LTX108	LTX108:8:10623135:C	Baseline	13	8	10623135	C	G	0.9997998	0	39957	0	0
LTX108	LTX108:11:5969447:C	Baseline	13	11	5969447	C	A	0.9997381	4.224E-05	118359	5	0
LTX108	LTX108:12:93100715:G	Baseline	13	12	93100715	G	T	0.9997055	1.9E-05	105279	2	0
LTX108	LTX108:15:65759434:T	Baseline	13	15	65759434	T	G	0.9998525	8.677E-06	115247	1	0
LTX108	LTX108:8:2975974:G	Baseline	13	8	2975974	G	T	0.9996941	4.025E-05	124232	5	0
LTX108	LTX108:11:4661941:G	Baseline	13	11	4661941	G	T	0.9997408	2.991E-05	100299	3	0

LTX108	LTX108:6:109762353:G	Baseline	13	6	109762353	G	T	0.9996134	4.833E-05	20693	1	0
LTX108	LTX108:12:75728663:C	Baseline	13	12	75728663	C	A	0.99948	4.105E-05	73081	3	0
LTX108	LTX108:7:98256550:G	Baseline	13	7	98256550	G	T	0.9995964	4.485E-05	44597	2	0
LTX108	LTX108:11:33731800:A	Baseline	13	11	33731800	A	C	0.9996774	0	108509	0	0
LTX108	LTX108:14:88477948:G	Baseline	13	14	88477948	G	T	0.9997214	2.533E-05	118460	3	0
LTX108	LTX108:15:42981235:G	Baseline	13	15	42981235	G	T	0.999587	6.884E-05	101685	7	0
LTX108	LTX108:14:56103197:G	Baseline	13	14	56103197	G	T	0.9995456	2.673E-05	112230	3	0
LTX108	LTX108:5:96071930:A	Baseline	13	5	96071930	A	T	0.9999598	0	99548	0	0
LTX108	LTX108:14:38724919:G	Baseline	13	14	38724919	G	T	0.9996868	0	28740	0	0
LTX210	LTX210:10:135084385:C	Baseline	13	10	135084385	C	A	0.9853826	0.0146174	2326	34	1
LTX210	LTX210:4:164449923:G	Baseline	13	4	164449923	G	T	0.994906	0.0047837	38673	185	1
LTX210	LTX210:1:150337375:G	Baseline	13	1	150337375	G	T	0.9870191	0.0124553	19028	237	1
LTX210	LTX210:1:247875253:C	Baseline	13	1	247875253	C	A	0.9936321	0.0060773	41301	251	1
LTX210	LTX210:14:75134297:C	Baseline	13	14	75134297	C	A	0.9940896	0.0056856	44498	253	1
LTX210	LTX210:13:98043699:G	Baseline	13	13	98043699	G	T	0.9968417	0.0029581	44961	133	1
LTX210	LTX210:8:92998492:C	Baseline	13	8	92998492	C	A	0.9896795	0.0100179	33041	331	1
LTX210	LTX210:6:28403341:T	Baseline	13	6	28403341	T	G	0.9921464	0.0076019	39727	302	1
LTX210	LTX210:8:23709022:C	Baseline	13	8	23709022	C	A	0.9957292	0.0041723	30439	127	1
LTX210	LTX210:19:32083623:C	Baseline	13	19	32083623	C	A	0.9955601	0.0042046	34010	143	1
LTX210	LTX210:20:57876633:C	Baseline	13	20	57876633	C	G	0.9915153	0.0084847	6718	57	1
LTX210	LTX210:14:64924932:A	Baseline	13	14	64924932	A	T	0.9957631	0.0041724	46496	194	1
LTX210	LTX210:1:152057868:G	Baseline	13	1	152057868	G	T	0.9960356	0.0036575	39098	143	1
LTX210	LTX210:11:56467960:G	Baseline	13	11	56467960	G	T	0.9931457	0.0061383	94977	583	1
LTX210	LTX210:13:86369947:A	Baseline	13	13	86369947	A	T	0.9991846	0.0007183	51508	37	1
LTX210	LTX210:2:186656211:A	Baseline	13	2	186656211	A	T	0.9966542	0.0031897	44832	143	1
LTX210	LTX210:7:84694809:G	Baseline	13	7	84694809	G	C	0.9958784	0.0037116	46341	172	1
LTX210	LTX210:7:45124878:C	Baseline	13	7	45124878	C	G	0.9993564	0.0002145	18645	4	1
LTX210	LTX210:1:158617494:T	Baseline	13	1	158617494	T	G	0.999719	0	24922	0	0
LTX210	LTX210:9:139409757:C	Baseline	13	9	139409757	C	T	0.9997084	0.0002916	10288	3	0
LTX210	LTX210:19:57325219:T	Baseline	13	19	57325219	T	A	0.9997277	0.0001089	36730	4	0
LTX210	LTX210:1:89732158:G	Baseline	13	1	89732158	G	T	0.9996776	4.961E-05	40317	2	0
LTX210	LTX210:4:15444043:C	Baseline	13	4	15444043	C	A	0.9996598	0	35278	0	0
LTX210	LTX210:19:1207033:A	Baseline	13	19	1207033	A	T	0.9837644	0.0162356	6960	113	1
LTX210	LTX210:14:71540318:G	Baseline	13	14	71540318	G	T	0.9875363	0.0121182	34741	421	1
LTX210	LTX210:12:130926393:C	Baseline	13	12	130926393	C	A	0.9908007	0.009029	5870	53	1
LTX210	LTX210:15:85406083:G	Baseline	13	15	85406083	G	C	0.993104	0.0066712	26682	178	1
LTX210	LTX210:X:147733580:A	Baseline	13	23	147733580	A	C	0.9998169	0	21846	0	0
LTX210	LTX210:X:26236064:A	Baseline	13	23	26236064	A	T	0.9996571	8.572E-05	23331	2	0

LTX210	LTX210:X:92927241:T	Baseline	13	23	92927241	T	G	0.9998871	0	17714	0	0
LTX019_111848	LTX019:7:127013601:T	Longitudinal	13	7	127013601	T	A	0.9998494	7.532E-05	26554	2	0
LTX019_111848	LTX019:9:136231864:G	Longitudinal	13	9	136231864	G	C	0.9993691	5.047E-05	39628	2	0
LTX019_111848	LTX019:3:119530387:G	Longitudinal	13	3	119530387	G	T	0.9998226	4.435E-05	22550	1	0
LTX019_111848	LTX019:22:41574949:G	Longitudinal	13	22	41574949	G	C	0.9997208	0	25074	0	0
LTX019_111848	LTX019:8:42821731:C	Longitudinal	13	8	42821731	C	G	0.9997674	0	34389	0	0
LTX019_111848	LTX019:19:39914989:T	Longitudinal	13	19	39914989	T	G	0.9998569	0	20970	0	0
LTX019_111848	LTX019:15:78921901:A	Longitudinal	13	15	78921901	A	C	0.9995619	0.0001168	34238	4	0
LTX019_111848	LTX019:2:47637426:T	Longitudinal	13	2	47637426	T	A	0.9999207	0	25217	0	0
LTX019_111848	LTX019:8:62212481:C	Longitudinal	13	8	62212481	C	A	0.9996008	3.992E-05	25052	1	0
LTX019_111848	LTX019:2:100168048:T	Longitudinal	13	2	100168048	T	C	0.9998202	8.989E-05	11125	1	0
LTX019_111848	LTX019:2:74733940:C	Longitudinal	13	2	74733940	C	G	0.999551	0	37858	0	0
LTX019_111848	LTX019:17:40870017:C	Longitudinal	13	17	40870017	C	A	0.999617	3.191E-05	31335	1	0
LTX019_111848	LTX019:14:31602819:C	Longitudinal	13	14	31602819	C	G	0.9996809	0	28208	0	0
LTX019_111848	LTX019:11:119547900:C	Longitudinal	13	11	119547900	C	G	0.9995698	0	46486	0	0
LTX019_111848	LTX019:11:55587191:T	Longitudinal	13	11	55587191	T	G	0.9998849	0	26074	0	0
LTX019_111848	LTX019:4:44450329:G	Longitudinal	13	4	44450329	G	T	0.9993831	6.169E-05	16209	1	0
LTX019_111848	LTX019:5:142258975:G	Longitudinal	13	5	142258975	G	T	0.9981266	2.927E-05	34162	1	0
LTX019_111848	LTX019:17:29576091:C	Longitudinal	13	17	29576091	C	G	0.9998164	0	21786	0	0
LTX019_111705	LTX019:7:127013601:T	Longitudinal	13	7	127013601	T	A	0.99844	0.0014524	55771	81	1
LTX019_111705	LTX019:9:136231864:G	Longitudinal	13	9	136231864	G	C	0.9998539	0	61594	0	0
LTX019_111705	LTX019:3:119530387:G	Longitudinal	13	3	119530387	G	T	0.9991167	0.0004417	33962	15	1
LTX019_111705	LTX019:22:41574949:G	Longitudinal	13	22	41574949	G	C	0.999743	1.836E-05	54480	1	0
LTX019_111705	LTX019:8:42821731:C	Longitudinal	13	8	42821731	C	G	0.9996021	1.474E-05	67861	1	0
LTX019_111705	LTX019:19:39914989:T	Longitudinal	13	19	39914989	T	G	0.9997676	0	34429	0	0
LTX019_111705	LTX019:15:78921901:A	Longitudinal	13	15	78921901	A	C	0.9995628	3.802E-05	52609	2	0
LTX019_111705	LTX019:2:47637426:T	Longitudinal	13	2	47637426	T	A	0.999772	1.9E-05	52640	1	0
LTX019_111705	LTX019:8:62212481:C	Longitudinal	13	8	62212481	C	A	0.9996916	0	48639	0	0
LTX019_111705	LTX019:2:100168048:T	Longitudinal	13	2	100168048	T	C	0.9998552	9.652E-05	20721	2	0
LTX019_111705	LTX019:2:74733940:C	Longitudinal	13	2	74733940	C	G	0.9995735	1.523E-05	65654	1	0
LTX019_111705	LTX019:17:40870017:C	Longitudinal	13	17	40870017	C	A	0.9992238	0.0002415	57977	14	1
LTX019_111705	LTX019:14:31602819:C	Longitudinal	13	14	31602819	C	G	0.9995397	0	56490	0	0
LTX019_111705	LTX019:11:119547900:C	Longitudinal	13	11	119547900	C	G	0.9997282	0	77262	0	0
LTX019_111705	LTX019:11:55587191:T	Longitudinal	13	11	55587191	T	G	0.9997697	2.303E-05	43430	1	0
LTX019_111705	LTX019:4:44450329:G	Longitudinal	13	4	44450329	G	T	0.9995944	0	22190	0	0
LTX019_111705	LTX019:5:142258975:G	Longitudinal	13	5	142258975	G	T	0.999275	0.0004734	67589	32	1
LTX019_111705	LTX019:17:29576091:C	Longitudinal	13	17	29576091	C	G	0.9996045	0	42979	0	0
LTX019_111591	LTX019:7:127013601:T	Longitudinal	13	7	127013601	T	A	0.9973041	0.0025851	54157	140	1

LTX019_111591	LTX019:9:136231864:G	Longitudinal	13	9	136231864	G	C	0.9995505	0	55621	0	0
LTX019_111591	LTX019:3:119530387:G	Longitudinal	13	3	119530387	G	T	0.9969042	0.0026784	28749	77	1
LTX019_111591	LTX019:22:41574949:G	Longitudinal	13	22	41574949	G	C	0.9996037	6.257E-05	47945	3	0
LTX019_111591	LTX019:8:42821731:C	Longitudinal	13	8	42821731	C	G	0.9987382	0.0010437	64193	67	1
LTX019_111591	LTX019:19:39914989:T	Longitudinal	13	19	39914989	T	G	0.9998052	3.246E-05	30808	1	0
LTX019_111591	LTX019:15:78921901:A	Longitudinal	13	15	78921901	A	C	0.9961732	0.0033684	50172	169	1
LTX019_111591	LTX019:2:47637426:T	Longitudinal	13	2	47637426	T	A	0.9984633	0.0014104	47503	67	1
LTX019_111591	LTX019:8:62212481:C	Longitudinal	13	8	62212481	C	A	0.9981398	0.001636	44620	73	1
LTX019_111591	LTX019:2:100168048:T	Longitudinal	13	2	100168048	T	C	0.9966855	0.0032678	21421	70	1
LTX019_111591	LTX019:2:74733940:C	Longitudinal	13	2	74733940	C	G	0.999467	0	65660	0	0
LTX019_111591	LTX019:17:40870017:C	Longitudinal	13	17	40870017	C	A	0.998102	0.0016115	55849	90	1
LTX019_111591	LTX019:14:31602819:C	Longitudinal	13	14	31602819	C	G	0.99981	0	52632	0	0
LTX019_111591	LTX019:11:119547900:C	Longitudinal	13	11	119547900	C	G	0.9997687	0	73485	0	0
LTX019_111591	LTX019:11:55587191:T	Longitudinal	13	11	55587191	T	G	0.9986174	0.0012802	39057	50	1
LTX019_111591	LTX019:4:44450329:G	Longitudinal	13	4	44450329	G	T	0.9997503	0	20027	0	0
LTX019_111591	LTX019:5:142258975:G	Longitudinal	13	5	142258975	G	T	0.9989384	0.0007721	62172	48	1
LTX019_111591	LTX019:17:29576091:C	Longitudinal	13	17	29576091	C	G	0.9993269	2.493E-05	40111	1	0
LTX019_111530	LTX019:7:127013601:T	Longitudinal	13	7	127013601	T	A	0.9891647	0.0106452	63127	672	1
LTX019_111530	LTX019:9:136231864:G	Longitudinal	13	9	136231864	G	C	0.9995503	1.73E-05	57820	1	0
LTX019_111530	LTX019:3:119530387:G	Longitudinal	13	3	119530387	G	T	0.9933484	0.0062059	29166	181	1
LTX019_111530	LTX019:22:41574949:G	Longitudinal	13	22	41574949	G	C	0.999574	0	58687	0	0
LTX019_111530	LTX019:8:42821731:C	Longitudinal	13	8	42821731	C	G	0.9950503	0.0047307	68489	324	1
LTX019_111530	LTX019:19:39914989:T	Longitudinal	13	19	39914989	T	G	0.9996402	0	30571	0	0
LTX019_111530	LTX019:15:78921901:A	Longitudinal	13	15	78921901	A	C	0.986198	0.0133568	49413	660	1
LTX019_111530	LTX019:2:47637426:T	Longitudinal	13	2	47637426	T	A	0.9968266	0.0030811	54201	167	1
LTX019_111530	LTX019:8:62212481:C	Longitudinal	13	8	62212481	C	A	0.9903835	0.0092518	52098	482	1
LTX019_111530	LTX019:2:100168048:T	Longitudinal	13	2	100168048	T	C	0.9943303	0.0056177	19225	108	1
LTX019_111530	LTX019:2:74733940:C	Longitudinal	13	2	74733940	C	G	0.9992845	0	67089	0	0
LTX019_111530	LTX019:17:40870017:C	Longitudinal	13	17	40870017	C	A	0.9936559	0.0060579	62893	381	1
LTX019_111530	LTX019:14:31602819:C	Longitudinal	13	14	31602819	C	G	0.9997316	0	63350	0	0
LTX019_111530	LTX019:11:119547900:C	Longitudinal	13	11	119547900	C	G	0.9995252	0	71609	0	0
LTX019_111530	LTX019:11:55587191:T	Longitudinal	13	11	55587191	T	G	0.9950638	0.0047463	47405	225	1
LTX019_111530	LTX019:4:44450329:G	Longitudinal	13	4	44450329	G	T	0.9994539	5.461E-05	18312	1	0
LTX019_111530	LTX019:5:142258975:G	Longitudinal	13	5	142258975	G	T	0.985021	0.0143852	67361	969	1
LTX019_111530	LTX019:17:29576091:C	Longitudinal	13	17	29576091	C	G	0.9992004	0	47523	0	0
LTX019_123488	LTX019:7:127013601:T	Longitudinal	13	7	127013601	T	A	0.9995366	0.0004119	58263	24	1
LTX019_123488	LTX019:9:136231864:G	Longitudinal	13	9	136231864	G	C	0.9994212	1.809E-05	55286	1	0
LTX019_123488	LTX019:3:119530387:G	Longitudinal	13	3	119530387	G	T	0.9992136	0.0004787	29248	14	1

LTX019_123488	LTX019:22:41574949:G	Longitudinal	13	22	41574949	G	C	0.9996462	0	50873	0	0
LTX019_123488	LTX019:8:42821731:C	Longitudinal	13	8	42821731	C	G	0.9993798	0.0002227	62878	14	1
LTX019_123488	LTX019:19:39914989:T	Longitudinal	13	19	39914989	T	G	0.9998665	0	29957	0	0
LTX019_123488	LTX019:15:78921901:A	Longitudinal	13	15	78921901	A	C	0.9971534	0.0023233	47777	111	1
LTX019_123488	LTX019:2:47637426:T	Longitudinal	13	2	47637426	T	A	0.9998952	6.288E-05	47713	3	0
LTX019_123488	LTX019:8:62212481:C	Longitudinal	13	8	62212481	C	A	0.9984467	0.0011805	48283	57	1
LTX019_123488	LTX019:2:100168048:T	Longitudinal	13	2	100168048	T	C	0.999698	0.0002517	19865	5	0
LTX019_123488	LTX019:2:74733940:C	Longitudinal	13	2	74733940	C	G	0.999522	2.988E-05	66944	2	0
LTX019_123488	LTX019:17:40870017:C	Longitudinal	13	17	40870017	C	A	0.9994985	0.0002675	59820	16	1
LTX019_123488	LTX019:14:31602819:C	Longitudinal	13	14	31602819	C	G	0.9998101	0	57923	0	0
LTX019_123488	LTX019:11:119547900:C	Longitudinal	13	11	119547900	C	G	0.9996503	4.196E-05	71497	3	0
LTX019_123488	LTX019:11:55587191:T	Longitudinal	13	11	55587191	T	G	0.9992796	0.0004415	43033	19	1
LTX019_123488	LTX019:4:44450329:G	Longitudinal	13	4	44450329	G	T	0.9996838	0	18976	0	0
LTX019_123488	LTX019:5:142258975:G	Longitudinal	13	5	142258975	G	T	0.9987913	0.0008523	64530	55	1
LTX019_123488	LTX019:17:29576091:C	Longitudinal	13	17	29576091	C	G	0.999698	0	43041	0	0
LTX019_123447	LTX019:7:127013601:T	Longitudinal	13	7	127013601	T	A	0.9996561	0.0001935	46522	9	0
LTX019_123447	LTX019:9:136231864:G	Longitudinal	13	9	136231864	G	C	0.9996597	2.431E-05	41137	1	0
LTX019_123447	LTX019:3:119530387:G	Longitudinal	13	3	119530387	G	T	0.9993036	0.0003482	20104	7	1
LTX019_123447	LTX019:22:41574949:G	Longitudinal	13	22	41574949	G	C	0.9998219	2.226E-05	44919	1	0
LTX019_123447	LTX019:8:42821731:C	Longitudinal	13	8	42821731	C	G	0.9995782	0.00022	54534	12	1
LTX019_123447	LTX019:19:39914989:T	Longitudinal	13	19	39914989	T	G	0.9997981	0	24759	0	0
LTX019_123447	LTX019:15:78921901:A	Longitudinal	13	15	78921901	A	C	0.9990366	0.0004516	33217	15	1
LTX019_123447	LTX019:2:47637426:T	Longitudinal	13	2	47637426	T	A	0.9997172	0.0001543	38895	6	0
LTX019_123447	LTX019:8:62212481:C	Longitudinal	13	8	62212481	C	A	0.9991836	0.0004214	37971	16	1
LTX019_123447	LTX019:2:100168048:T	Longitudinal	13	2	100168048	T	C	0.9996443	0.0003557	14056	5	0
LTX019_123447	LTX019:2:74733940:C	Longitudinal	13	2	74733940	C	G	0.9993492	0	49167	0	0
LTX019_123447	LTX019:17:40870017:C	Longitudinal	13	17	40870017	C	A	0.999296	0.000256	46873	12	1
LTX019_123447	LTX019:14:31602819:C	Longitudinal	13	14	31602819	C	G	0.9996842	2.105E-05	47503	1	0
LTX019_123447	LTX019:11:119547900:C	Longitudinal	13	11	119547900	C	G	0.9996724	0	54938	0	0
LTX019_123447	LTX019:11:55587191:T	Longitudinal	13	11	55587191	T	G	0.9996631	0.0001814	38589	7	1
LTX019_123447	LTX019:4:44450329:G	Longitudinal	13	4	44450329	G	T	0.9995499	0	13330	0	0
LTX019_123447	LTX019:5:142258975:G	Longitudinal	13	5	142258975	G	T	0.9990031	0.0006462	54166	35	1
LTX019_123447	LTX019:17:29576091:C	Longitudinal	13	17	29576091	C	G	0.999508	2.894E-05	34553	1	0
LTX022_108273	LTX022:1:247836132:G	Longitudinal	13	1	247836132	G	T	0.999704	0	43924	0	0
LTX022_108273	LTX022:17:7578190:T	Longitudinal	13	17	7578190	T	C	0.999799	0.0001563	44782	7	0
LTX022_108273	LTX022:5:167645878:T	Longitudinal	13	5	167645878	T	G	0.9994532	0.0001451	89608	13	0
LTX022_108273	LTX022:9:123220803:C	Longitudinal	13	9	123220803	C	G	0.9996102	3.713E-05	53868	2	0
LTX022_108273	LTX022:6:155153840:A	Longitudinal	13	6	155153840	A	G	0.9998039	0.0001783	56082	10	0

LTX022_108273	LTX022:7:117432761:C	Longitudinal	13	7	117432761	C	A	0.9997262	0	21911	0	0
LTX022_108273	LTX022:9:97887448:C	Longitudinal	13	9	97887448	C	A	0.9996919	3.423E-05	58429	2	0
LTX022_108273	LTX022:18:47802230:C	Longitudinal	13	18	47802230	C	A	0.9994117	0	25496	0	0
LTX022_108273	LTX022:12:129559276:C	Longitudinal	13	12	129559276	C	T	0.9996831	0.0002438	41016	10	0
LTX022_108273	LTX022:18:47800615:C	Longitudinal	13	18	47800615	C	A	0.999384	0	9740	0	0
LTX022_108273	LTX022:8:70674006:G	Longitudinal	13	8	70674006	G	T	0.9996947	2.181E-05	45858	1	0
LTX022_108273	LTX022:2:1168816:T	Longitudinal	13	2	1168816	T	C	0.9991653	0.0008347	39536	33	1
LTX022_108273	LTX022:9:35714237:T	Longitudinal	13	9	35714237	T	C	0.9989137	0.0010028	35901	36	1
LTX022_108273	LTX022:9:95841793:G	Longitudinal	13	9	95841793	G	C	0.999755	0	32649	0	0
LTX022_108273	LTX022:19:6732134:C	Longitudinal	13	19	6732134	C	G	0.9996663	8.343E-05	11986	1	0
LTX022_108273	LTX022:18:22807056:C	Longitudinal	13	18	22807056	C	A	0.9997131	6.147E-05	48802	3	0
LTX022_108273	LTX022:4:187532858:C	Longitudinal	13	4	187532858	C	A	0.9972441	0	31206	0	0
LTX022_108273	LTX022:5:176710869:A	Longitudinal	13	5	176710869	A	T	0.9998007	3.986E-05	50180	2	0
LTX022_108273	LTX022:8:88365909:G	Longitudinal	13	8	88365909	G	T	0.9998185	3.025E-05	33061	1	0
LTX046_107566	LTX046:7:55241708:G	Longitudinal	14	7	55241708	G	C	0.9997883	0	56677	0	0
LTX046_107566	LTX046:5:7707852:C	Longitudinal	14	5	7707852	C	A	0.9995288	0.0002693	74276	20	1
LTX046_107566	LTX046:7:147336264:C	Longitudinal	14	7	147336264	C	A	0.9994151	1.671E-05	59837	1	0
LTX046_107566	LTX046:19:45375306:G	Longitudinal	14	19	45375306	G	C	0.9998403	0	37568	0	0
LTX046_107566	LTX046:18:8376182:C	Longitudinal	14	18	8376182	C	A	0.9997754	0	17813	0	0
LTX046_107566	LTX046:8:22023023:G	Longitudinal	14	8	22023023	G	C	0.9997588	0	4146	0	0
LTX046_107566	LTX046:2:241513261:G	Longitudinal	14	2	241513261	G	T	0.9997782	7.394E-05	13525	1	0
LTX046_107566	LTX046:21:41505834:C	Longitudinal	14	21	41505834	C	A	0.9994548	4.039E-05	49521	2	0
LTX046_107566	LTX046:7:135384235:G	Longitudinal	14	7	135384235	G	T	0.9995022	2.845E-05	70308	2	0
LTX046_107566	LTX046:10:118689468:C	Longitudinal	14	10	118689468	C	G	0.9995409	0	84944	0	0
LTX046_107566	LTX046:17:19261251:C	Longitudinal	14	17	19261251	C	T	0.9997381	0.0002619	34368	9	0
LTX046_107566	LTX046:4:57839436:C	Longitudinal	14	4	57839436	C	G	0.9997034	2.966E-05	67423	2	0
LTX046_107566	LTX046:3:4847939:C	Longitudinal	14	3	4847939	C	G	0.9997523	1.376E-05	72681	1	0
LTX046_107566	LTX046:22:43539119:C	Longitudinal	14	22	43539119	C	A	0.9988603	0	6142	0	0
LTX046_107566	LTX046:2:228882599:C	Longitudinal	14	2	228882599	C	T	0.9993334	0.0006376	34503	22	0
LTX046_107566	LTX046:4:164272221:G	Longitudinal	14	4	164272221	G	C	0.9997361	0	68219	0	0
LTX046_107566	LTX046:10:15121020:G	Longitudinal	14	10	15121020	G	T	0.9996057	2.921E-05	68481	2	0
LTX046_107566	LTX046:11:78574162:C	Longitudinal	14	11	78574162	C	A	0.9998211	0	55903	0	0
LTX046_107566	LTX046:1:237754064:C	Longitudinal	14	1	237754064	C	T	0.9994427	0.0005066	78955	40	0
LTX046_107566	LTX046:17:7579485:C	Longitudinal	14	17	7579485	C	A	0.9995158	0	16521	0	0
LTX046_107566	LTX046:4:31144164:C	Longitudinal	14	4	31144164	C	A	0.9996412	0.0001005	69667	7	1
LTX046_107566	LTX046:18:48604750:G	Longitudinal	14	18	48604750	G	A	0.9997463	0.000194	67016	13	0
LTX046_107566	LTX046:4:124323097:T	Longitudinal	14	4	124323097	T	A	0.999745	0.000102	58821	6	0
LTX046_107566	LTX046:13:30107108:C	Longitudinal	14	13	30107108	C	A	0.9993712	4.192E-05	47711	2	0

LTX046_107566	LTX046:X:152830448:G	Longitudinal	14	23	152830448	G	A	0.998819	0.0007396	17576	13	0
LTX102_105558	LTX102:8:52721778:C	Longitudinal	14	8	52721778	C	A	0.9997225	0	36035	0	0
LTX102_105558	LTX102:8:41792063:C	Longitudinal	14	8	41792063	C	A	0.9998466	3.836E-05	26069	1	0
LTX102_105558	LTX102:8:30948434:T	Longitudinal	14	8	30948434	T	A	0.9997004	9.986E-05	70095	7	0
LTX102_105558	LTX102:12:49361733:C	Longitudinal	14	12	49361733	C	G	0.9996029	1.726E-05	57926	1	0
LTX102_105558	LTX102:13:33109925:C	Longitudinal	14	13	33109925	C	A	0.9997012	0	53549	0	0
LTX102_105558	LTX102:16:2226164:T	Longitudinal	14	16	2226164	T	A	0.9996708	5.487E-05	18224	1	0
LTX102_105558	LTX102:12:123430687:C	Longitudinal	14	12	123430687	C	A	0.9994361	3.133E-05	31919	1	0
LTX102_105558	LTX102:13:38154108:T	Longitudinal	14	13	38154108	T	A	0.9998725	3.187E-05	62747	2	0
LTX102_105558	LTX102:19:58187803:A	Longitudinal	14	19	58187803	A	C	0.9998032	0	50818	0	0
LTX102_105558	LTX102:11:92714903:T	Longitudinal	14	11	92714903	T	A	0.9998789	3.027E-05	33032	1	0
LTX102_105558	LTX102:14:33004945:G	Longitudinal	14	14	33004945	G	T	0.9995389	0	58559	0	0
LTX102_105558	LTX102:1:154997038:C	Longitudinal	14	1	154997038	C	A	0.9997413	0	15463	0	0
LTX102_105558	LTX102:19:4488790:G	Longitudinal	14	19	4488790	G	C	0.9997548	0	20395	0	0
LTX102_105558	LTX102:8:118847703:C	Longitudinal	14	8	118847703	C	G	0.9998629	0	51058	0	0
LTX102_105558	LTX102:1:118042138:G	Longitudinal	14	1	118042138	G	T	0.9996594	0	55786	0	0
LTX102_105558	LTX102:3:113890825:G	Longitudinal	14	3	113890825	G	T	1	0	4189	0	0
LTX102_105558	LTX102:11:85459443:T	Longitudinal	14	11	85459443	T	A	0.9998423	7.883E-05	50742	4	0
LTX102_105558	LTX102:9:132963250:G	Longitudinal	14	9	132963250	G	T	0.999864	0	44123	0	0
LTX102_105558	LTX102:1:156883232:G	Longitudinal	14	1	156883232	G	T	0.9998358	0.0001642	12181	2	0
LTX102_105558	LTX102:7:138603666:A	Longitudinal	14	7	138603666	A	G	0.9999473	5.274E-05	75841	4	0
LTX102_105558	LTX102:17:7577538:C	Longitudinal	14	17	7577538	C	T	0.99955	0.0003375	35555	12	0
LTX102_105558	LTX102:15:77425561:C	Longitudinal	14	15	77425561	C	A	0.999573	7.117E-05	42150	3	0
LTX102_105558	LTX102:15:33855180:A	Longitudinal	14	15	33855180	A	C	0.9998695	0	91961	0	0
LTX102_105558	LTX102:6:90398306:G	Longitudinal	14	6	90398306	G	C	0.999545	0	37363	0	0
LTX102_105558	LTX102:18:51731448:A	Longitudinal	14	18	51731448	A	C	0.999808	0	67709	0	0
LTX102_105558	LTX102:12:49416133:G	Longitudinal	14	12	49416133	G	A	0.9995327	0.0004506	59924	27	0
LTX102_105558	LTX102:9:17135349:G	Longitudinal	14	9	17135349	G	T	0.999575	0	16471	0	0
LTX102_117429	LTX102:8:52721778:C	Longitudinal	14	8	52721778	C	A	0.9996974	0	36349	0	0
LTX102_117429	LTX102:8:41792063:C	Longitudinal	14	8	41792063	C	A	0.9995856	0	24130	0	0
LTX102_117429	LTX102:8:30948434:T	Longitudinal	14	8	30948434	T	A	0.9997082	7.295E-05	68544	5	0
LTX102_117429	LTX102:12:49361733:C	Longitudinal	14	12	49361733	C	G	0.999463	1.79E-05	55861	1	0
LTX102_117429	LTX102:13:33109925:C	Longitudinal	14	13	33109925	C	A	0.9994725	5.652E-05	53078	3	0
LTX102_117429	LTX102:16:2226164:T	Longitudinal	14	16	2226164	T	A	0.9997339	5.323E-05	18788	1	0
LTX102_117429	LTX102:12:123430687:C	Longitudinal	14	12	123430687	C	A	0.9993117	0	34870	0	0
LTX102_117429	LTX102:13:38154108:T	Longitudinal	14	13	38154108	T	A	0.9997772	3.183E-05	62843	2	0
LTX102_117429	LTX102:19:58187803:A	Longitudinal	14	19	58187803	A	C	0.9995168	0	53807	0	0
LTX102_117429	LTX102:11:92714903:T	Longitudinal	14	11	92714903	T	A	0.9997044	3.695E-05	27067	1	0

LTX102_117429	LTX102:14:33004945:G	Longitudinal	14	14	33004945	G	T	0.9996761	5.114E-05	58666	3	0
LTX102_117429	LTX102:1:154997038:C	Longitudinal	14	1	154997038	C	A	0.9988898	0	17114	0	0
LTX102_117429	LTX102:19:4488790:G	Longitudinal	14	19	4488790	G	C	0.9994261	5.739E-05	17424	1	0
LTX102_117429	LTX102:8:118847703:C	Longitudinal	14	8	118847703	C	G	0.9996223	1.889E-05	52947	1	0
LTX102_117429	LTX102:1:118042138:G	Longitudinal	14	1	118042138	G	T	0.9997206	5.987E-05	50107	3	0
LTX102_117429	LTX102:3:113890825:G	Longitudinal	14	3	113890825	G	T	0.9993523	0	3088	0	0
LTX102_117429	LTX102:11:85459443:T	Longitudinal	14	11	85459443	T	A	0.9996656	5.901E-05	50840	3	0
LTX102_117429	LTX102:9:132963250:G	Longitudinal	14	9	132963250	G	T	0.9998376	4.641E-05	43093	2	0
LTX102_117429	LTX102:1:156883232:G	Longitudinal	14	1	156883232	G	T	0.9996258	0	10690	0	0
LTX102_117429	LTX102:7:138603666:A	Longitudinal	14	7	138603666	A	G	0.9998513	9.465E-05	73958	7	0
LTX102_117429	LTX102:17:7577538:C	Longitudinal	14	17	7577538	C	T	0.999524	0.000476	35716	17	0
LTX102_117429	LTX102:15:77425561:C	Longitudinal	14	15	77425561	C	A	0.9996923	6.155E-05	48742	3	0
LTX102_117429	LTX102:15:33855180:A	Longitudinal	14	15	33855180	A	C	0.9999466	0	93568	0	0
LTX102_117429	LTX102:6:90398306:G	Longitudinal	14	6	90398306	G	C	0.9994548	0	38521	0	0
LTX102_117429	LTX102:18:51731448:A	Longitudinal	14	18	51731448	A	C	0.999804	0	61239	0	0
LTX102_117429	LTX102:12:49416133:G	Longitudinal	14	12	49416133	G	A	0.9997115	0.0002885	58921	17	0
LTX102_117429	LTX102:9:17135349:G	Longitudinal	14	9	17135349	G	T	0.9995556	8.889E-05	11250	1	0
LTX102_117533	LTX102:8:52721778:C	Longitudinal	14	8	52721778	C	A	0.9992558	5.316E-05	37623	2	0
LTX102_117533	LTX102:8:41792063:C	Longitudinal	14	8	41792063	C	A	0.9996718	7.294E-05	27420	2	0
LTX102_117533	LTX102:8:30948434:T	Longitudinal	14	8	30948434	T	A	0.9997139	9.537E-05	83885	8	0
LTX102_117533	LTX102:12:49361733:C	Longitudinal	14	12	49361733	C	G	0.9994188	1.709E-05	58504	1	0
LTX102_117533	LTX102:13:33109925:C	Longitudinal	14	13	33109925	C	A	0.9993679	3.242E-05	61696	2	0
LTX102_117533	LTX102:16:2226164:T	Longitudinal	14	16	2226164	T	A	0.9999449	0	18145	0	0
LTX102_117533	LTX102:12:123430687:C	Longitudinal	14	12	123430687	C	A	0.9989738	0	34107	0	0
LTX102_117533	LTX102:13:38154108:T	Longitudinal	14	13	38154108	T	A	0.9998067	6.902E-05	72444	5	0
LTX102_117533	LTX102:19:58187803:A	Longitudinal	14	19	58187803	A	C	0.9996697	1.738E-05	57525	1	0
LTX102_117533	LTX102:11:92714903:T	Longitudinal	14	11	92714903	T	A	0.999935	0	30770	0	0
LTX102_117533	LTX102:14:33004945:G	Longitudinal	14	14	33004945	G	T	0.9997205	3.289E-05	60818	2	0
LTX102_117533	LTX102:1:154997038:C	Longitudinal	14	1	154997038	C	A	0.9990768	0	16248	0	0
LTX102_117533	LTX102:19:4488790:G	Longitudinal	14	19	4488790	G	C	0.9995849	0	19271	0	0
LTX102_117533	LTX102:8:118847703:C	Longitudinal	14	8	118847703	C	G	0.9996618	0	62090	0	0
LTX102_117533	LTX102:1:118042138:G	Longitudinal	14	1	118042138	G	T	0.9995972	1.751E-05	57104	1	0
LTX102_117533	LTX102:3:113890825:G	Longitudinal	14	3	113890825	G	T	0.9988407	0.0002319	4313	1	0
LTX102_117533	LTX102:11:85459443:T	Longitudinal	14	11	85459443	T	A	0.9997362	0.0001231	56870	7	0
LTX102_117533	LTX102:9:132963250:G	Longitudinal	14	9	132963250	G	T	0.9997231	2.308E-05	43336	1	0
LTX102_117533	LTX102:1:156883232:G	Longitudinal	14	1	156883232	G	T	1	0	11242	0	0
LTX102_117533	LTX102:7:138603666:A	Longitudinal	14	7	138603666	A	G	0.9997579	0.0002038	78494	16	0
LTX102_117533	LTX102:17:7577538:C	Longitudinal	14	17	7577538	C	T	0.9990351	0.0008412	40417	34	0

LTX102_117533	LTX102:15:77425561:C	Longitudinal	14	15	77425561	C	A	0.9997064	0	47689	0	0
LTX102_117533	LTX102:15:33855180:A	Longitudinal	14	15	33855180	A	C	0.9999371	0	111219	0	0
LTX102_117533	LTX102:6:90398306:G	Longitudinal	14	6	90398306	G	C	0.9996262	0	40127	0	0
LTX102_117533	LTX102:18:51731448:A	Longitudinal	14	18	51731448	A	C	0.9997747	0	75463	0	0
LTX102_117533	LTX102:12:49416133:G	Longitudinal	14	12	49416133	G	A	0.9997757	0.0001923	62415	12	0
LTX102_117533	LTX102:9:17135349:G	Longitudinal	14	9	17135349	G	T	0.9995621	6.256E-05	15984	1	0
LTX121_106675-PLA1	LTX121:14:95570254:G	Longitudinal	14	14	95570254	G	T	0.9995937	1.161E-05	86133	1	0
LTX121_106675-PLA1	LTX121:17:7579358:C	Longitudinal	14	17	7579358	C	A	0.9997834	2.406E-05	41558	1	0
LTX121_106675-PLA1	LTX121:17:11593059:A	Longitudinal	14	17	11593059	A	T	0.9998529	3.676E-05	54402	2	0
LTX121_106675-PLA1	LTX121:10:103433303:G	Longitudinal	14	10	103433303	G	T	0.9997503	0	44058	0	0
LTX121_106675-PLA1	LTX121:7:106523488:G	Longitudinal	14	7	106523488	G	T	0.9997485	1.143E-05	87470	1	0
LTX121_106675-PLA1	LTX121:9:110251297:C	Longitudinal	14	9	110251297	C	G	0.9997096	0	10332	0	0
LTX121_106675-PLA1	LTX121:17:43011894:C	Longitudinal	14	17	43011894	C	A	0.9987481	0	51121	0	0
LTX121_106675-PLA1	LTX121:6:51712624:G	Longitudinal	14	6	51712624	G	T	0.9996847	1.213E-05	82466	1	0
LTX121_106675-PLA1	LTX121:11:48285561:G	Longitudinal	14	11	48285561	G	T	0.9997526	1.178E-05	84888	1	0
LTX121_106675-PLA1	LTX121:1:158736295:A	Longitudinal	14	1	158736295	A	T	0.9996425	9.407E-06	106303	1	0
LTX121_106675-PLA1	LTX121:17:27899577:G	Longitudinal	14	17	27899577	G	T	0.9993191	0.000227	4406	1	0
LTX121_106675-PLA1	LTX121:1:196227523:C	Longitudinal	14	1	196227523	C	G	1	0	1324	0	0
LTX121_106675-PLA1	LTX121:19:56416312:G	Longitudinal	14	19	56416312	G	T	0.9997333	0	104989	0	0
LTX121_106675-PLA1	LTX121:12:132681673:C	Longitudinal	14	12	132681673	C	A	0.9997721	0	35097	0	0
LTX121_106675-PLA1	LTX121:4:88964509:G	Longitudinal	14	4	88964509	G	T	0.999614	2.087E-05	95850	2	0
LTX121_106675-PLA1	LTX121:4:70798307:G	Longitudinal	14	4	70798307	G	T	0.9996592	2.065E-05	96831	2	0
LTX121_106675-PLA1	LTX121:5:1278910:A	Longitudinal	14	5	1278910	A	G	0.99964	0.0002571	38891	10	0
LTX121_106675-PLA1	LTX121:8:145151305:C	Longitudinal	14	8	145151305	C	G	0.9994922	0	39383	0	0
LTX121_106675-PLA1	LTX121:12:49431006:G	Longitudinal	14	12	49431006	G	C	0.9997429	3.428E-05	58348	2	0
LTX121_106675-PLA1	LTX121:1:120510124:G	Longitudinal	14	1	120510124	G	T	0.9995249	7.662E-05	65255	5	0

LTX121_105658-PLA1	LTX121:14:95570254:G	Longitudinal	14	14	95570254	G	T	0.9997097	0	62004	0	0
LTX121_105658-PLA1	LTX121:17:7579358:C	Longitudinal	14	17	7579358	C	A	0.9993402	0	28796	0	0
LTX121_105658-PLA1	LTX121:17:11593059:A	Longitudinal	14	17	11593059	A	T	0.9997179	0.0001693	35443	6	0
LTX121_105658-PLA1	LTX121:10:103433303:G	Longitudinal	14	10	103433303	G	T	0.9996418	3.257E-05	30707	1	0
LTX121_105658-PLA1	LTX121:7:106523488:G	Longitudinal	14	7	106523488	G	T	0.9996005	1.737E-05	57567	1	0
LTX121_105658-PLA1	LTX121:9:110251297:C	Longitudinal	14	9	110251297	C	G	0.9998623	0	7262	0	0
LTX121_105658-PLA1	LTX121:17:43011894:C	Longitudinal	14	17	43011894	C	A	0.9989765	0	35172	0	0
LTX121_105658-PLA1	LTX121:6:51712624:G	Longitudinal	14	6	51712624	G	T	0.9995975	1.83E-05	54656	1	0
LTX121_105658-PLA1	LTX121:11:48285561:G	Longitudinal	14	11	48285561	G	T	0.9997432	0	54515	0	0
LTX121_105658-PLA1	LTX121:1:158736295:A	Longitudinal	14	1	158736295	A	T	0.9998097	1.464E-05	68327	1	0
LTX121_105658-PLA1	LTX121:17:27899577:G	Longitudinal	14	17	27899577	G	T	0.9993158	0	2923	0	0
LTX121_105658-PLA1	LTX121:1:196227523:C	Longitudinal	14	1	196227523	C	G	NaN	NaN	0		0
LTX121_105658-PLA1	LTX121:19:56416312:G	Longitudinal	14	19	56416312	G	T	0.9997012	1.423E-05	70278	1	0
LTX121_105658-PLA1	LTX121:12:132681673:C	Longitudinal	14	12	132681673	C	A	0.9995857	9.207E-05	21723	2	0
LTX121_105658-PLA1	LTX121:4:88964509:G	Longitudinal	14	4	88964509	G	T	0.9996936	1.532E-05	65273	1	0
LTX121_105658-PLA1	LTX121:4:70798307:G	Longitudinal	14	4	70798307	G	T	0.9996093	0	63982	0	0
LTX121_105658-PLA1	LTX121:5:1278910:A	Longitudinal	14	5	1278910	A	G	0.9998404	0.0001197	25058	3	0
LTX121_105658-PLA1	LTX121:8:145151305:C	Longitudinal	14	8	145151305	C	G	0.9996852	0	25413	0	0
LTX121_105658-PLA1	LTX121:12:49431006:G	Longitudinal	14	12	49431006	G	C	0.9995669	0	39255	0	0
LTX121_105658-PLA1	LTX121:1:120510124:G	Longitudinal	14	1	120510124	G	T	0.9996143	5.143E-05	38887	2	0
LTX121_117490-PLA1	LTX121:14:95570254:G	Longitudinal	14	14	95570254	G	T	0.999693	2.046E-05	48866	1	0
LTX121_117490-PLA1	LTX121:17:7579358:C	Longitudinal	14	17	7579358	C	A	0.9997388	0	22971	0	0
LTX121_117490-PLA1	LTX121:17:11593059:A	Longitudinal	14	17	11593059	A	T	0.9998693	3.268E-05	30602	1	0

LTX121_117490-PLA1	LTX121:10:103433303:G	Longitudinal	14	10	103433303	G	T	0.9996201	4.221E-05	23693	1	0
LTX121_117490-PLA1	LTX121:7:106523488:G	Longitudinal	14	7	106523488	G	T	0.9997562	2.032E-05	49224	1	0
LTX121_117490-PLA1	LTX121:9:110251297:C	Longitudinal	14	9	110251297	C	G	0.9994946	0	5936	0	0
LTX121_117490-PLA1	LTX121:17:43011894:C	Longitudinal	14	17	43011894	C	A	0.9984541	3.595E-05	27816	1	0
LTX121_117490-PLA1	LTX121:6:51712624:G	Longitudinal	14	6	51712624	G	T	0.9997995	2.228E-05	44893	1	0
LTX121_117490-PLA1	LTX121:11:48285561:G	Longitudinal	14	11	48285561	G	T	0.9997267	4.204E-05	47571	2	0
LTX121_117490-PLA1	LTX121:1:158736295:A	Longitudinal	14	1	158736295	A	T	0.9994865	3.423E-05	58421	2	0
LTX121_117490-PLA1	LTX121:17:27899577:G	Longitudinal	14	17	27899577	G	T	0.9991913	0	2473	0	0
LTX121_117490-PLA1	LTX121:1:196227523:C	Longitudinal	14	1	196227523	C	G	NaN	NaN	0		0
LTX121_117490-PLA1	LTX121:19:56416312:G	Longitudinal	14	19	56416312	G	T	0.9996449	0	56319	0	0
LTX121_117490-PLA1	LTX121:12:132681673:C	Longitudinal	14	12	132681673	C	A	0.9996309	0	18964	0	0
LTX121_117490-PLA1	LTX121:4:88964509:G	Longitudinal	14	4	88964509	G	T	0.9996972	8.075E-05	49534	4	0
LTX121_117490-PLA1	LTX121:4:70798307:G	Longitudinal	14	4	70798307	G	T	0.9996345	7.309E-05	54726	4	0
LTX121_117490-PLA1	LTX121:5:1278910:A	Longitudinal	14	5	1278910	A	G	0.9995241	0.0003808	21011	8	0
LTX121_117490-PLA1	LTX121:8:145151305:C	Longitudinal	14	8	145151305	C	G	0.9990629	0	20276	0	0
LTX121_117490-PLA1	LTX121:12:49431006:G	Longitudinal	14	12	49431006	G	C	0.9996004	0	32531	0	0
LTX121_117490-PLA1	LTX121:1:120510124:G	Longitudinal	14	1	120510124	G	T	0.9995582	0	31689	0	0
LTX223_109082	LTX223:1:197053484:C	Longitudinal	14	1	197053484	C	A	0.9997173	4.464E-05	67205	3	0
LTX223_109082	LTX223:2:88367465:T	Longitudinal	14	2	88367465	T	A	0.9995613	4.5E-05	88889	4	0
LTX223_109082	LTX223:12:70956841:C	Longitudinal	14	12	70956841	C	A	0.9995347	3.447E-05	58021	2	0
LTX223_109082	LTX223:12:25380276:T	Longitudinal	14	12	25380276	T	A	0.9997063	7.09E-05	98737	7	0
LTX223_109082	LTX223:19:17948799:G	Longitudinal	14	19	17948799	G	A	0.9995232	0.0003709	37748	14	0
LTX223_109082	LTX223:11:120833208:A	Longitudinal	14	11	120833208	A	T	0.9998646	0	103416	0	0
LTX223_109082	LTX223:1:59247967:C	Longitudinal	14	1	59247967	C	G	0.9994247	0	13905	0	0
LTX223_109082	LTX223:16:87744981:C	Longitudinal	14	16	87744981	C	A	0.9989089	0.0001423	21080	3	0
LTX223_109082	LTX223:10:108439449:G	Longitudinal	14	10	108439449	G	T	0.9996428	5.793E-05	103582	6	0
LTX223_109082	LTX223:7:131122632:C	Longitudinal	14	7	131122632	C	A	0.9997755	3.368E-05	89080	3	0
LTX223_109082	LTX223:4:140640665:G	Longitudinal	14	4	140640665	G	C	0.9994452	0	70294	0	0

LTX223_109082	LTX223:11:114027139:A	Longitudinal	14	11	114027139	A	T	0.999484	5.734E-05	52321	3	0
LTX223_109082	LTX223:16:66881106:T	Longitudinal	14	16	66881106	T	A	0.9997571	2.858E-05	69986	2	0
LTX223_109082	LTX223:3:18435986:C	Longitudinal	14	3	18435986	C	A	0.9996473	1.357E-05	73718	1	0
LTX223_109082	LTX223:5:169135199:C	Longitudinal	14	5	169135199	C	A	0.9995674	1.081E-05	92466	1	0
LTX223_109082	LTX223:22:38119347:G	Longitudinal	14	22	38119347	G	T	0.9996082	0.0001016	68920	7	0
LTX223_109082	LTX223:1:52082818:G	Longitudinal	14	1	52082818	G	T	0.9996649	0	8953	0	0
LTX223_109082	LTX223:2:180008479:C	Longitudinal	14	2	180008479	C	A	0.9996942	5.319E-05	75201	4	0
LTX223_109082	LTX223:1:237947367:C	Longitudinal	14	1	237947367	C	A	0.9998192	4.822E-05	82956	4	0
LTX223_109082	LTX223:1:161683145:G	Longitudinal	14	1	161683145	G	T	0.9996199	0	73669	0	0
LTX223_109082	LTX223:12:52448422:G	Longitudinal	14	12	52448422	G	A	0.999299	0.0006676	29956	20	0
LTX223_109082	LTX223:6:128540153:G	Longitudinal	14	6	128540153	G	A	0.9995922	0.0003568	78470	28	0
LTX223_109082	LTX223:5:150518972:G	Longitudinal	14	5	150518972	G	A	1	0	1560	0	0
LTX223_109082	LTX223:20:56098178:C	Longitudinal	14	20	56098178	C	A	0.9995185	3.321E-05	120457	4	0
LTX223_109082	LTX223:1:236898981:C	Longitudinal	14	1	236898981	C	A	0.9993824	1.584E-05	63145	1	0
LTX223_109082	LTX223:16:3823769:G	Longitudinal	14	16	3823769	G	A	0.9997626	0.0001846	37918	7	0
LTX223_109082	LTX223:15:98513905:G	Longitudinal	14	15	98513905	G	T	0.9996669	0	72049	0	0
LTX223_109082	LTX223:1:230846230:C	Longitudinal	14	1	230846230	C	A	0.999715	1.781E-05	56136	1	0
LTX223_116004	LTX223:1:197053484:C	Longitudinal	14	1	197053484	C	A	0.999706	2.94E-05	68019	2	0
LTX223_116004	LTX223:2:88367465:T	Longitudinal	14	2	88367465	T	A	0.9998467	1.095E-05	91319	1	0
LTX223_116004	LTX223:12:70956841:C	Longitudinal	14	12	70956841	C	A	0.9996236	5.132E-05	58456	3	0
LTX223_116004	LTX223:12:25380276:T	Longitudinal	14	12	25380276	T	A	0.9997557	8.144E-05	98229	8	0
LTX223_116004	LTX223:19:17948799:G	Longitudinal	14	19	17948799	G	A	0.9998232	0.0001263	39595	5	0
LTX223_116004	LTX223:11:120833208:A	Longitudinal	14	11	120833208	A	T	0.9998697	9.306E-06	107457	1	0
LTX223_116004	LTX223:1:59247967:C	Longitudinal	14	1	59247967	C	G	0.9994732	0	15187	0	0
LTX223_116004	LTX223:16:87744981:C	Longitudinal	14	16	87744981	C	A	0.999277	0	22131	0	0
LTX223_116004	LTX223:10:108439449:G	Longitudinal	14	10	108439449	G	T	0.9997043	3.815E-05	104840	4	0
LTX223_116004	LTX223:7:131122632:C	Longitudinal	14	7	131122632	C	A	0.9996922	2.199E-05	90958	2	0
LTX223_116004	LTX223:4:140640665:G	Longitudinal	14	4	140640665	G	C	0.9995066	2.82E-05	70933	2	0
LTX223_116004	LTX223:11:114027139:A	Longitudinal	14	11	114027139	A	T	0.9997657	3.604E-05	55489	2	0
LTX223_116004	LTX223:16:66881106:T	Longitudinal	14	16	66881106	T	A	0.9998365	1.362E-05	73396	1	0
LTX223_116004	LTX223:3:18435986:C	Longitudinal	14	3	18435986	C	A	0.9998038	0	71364	0	0
LTX223_116004	LTX223:5:169135199:C	Longitudinal	14	5	169135199	C	A	0.9993654	1.058E-05	94550	1	0
LTX223_116004	LTX223:22:38119347:G	Longitudinal	14	22	38119347	G	T	0.9995916	4.224E-05	71016	3	0
LTX223_116004	LTX223:1:52082818:G	Longitudinal	14	1	52082818	G	T	0.9990787	0	8683	0	0
LTX223_116004	LTX223:2:180008479:C	Longitudinal	14	2	180008479	C	A	0.9996285	4.127E-05	72685	3	0
LTX223_116004	LTX223:1:237947367:C	Longitudinal	14	1	237947367	C	A	0.9996573	0	87534	0	0
LTX223_116004	LTX223:1:161683145:G	Longitudinal	14	1	161683145	G	T	0.9998102	1.355E-05	73776	1	0
LTX223_116004	LTX223:12:52448422:G	Longitudinal	14	12	52448422	G	A	0.9993415	0.0006585	31892	21	0

LTX223_116004	LTX223:6:128540153:G	Longitudinal	14	6	128540153	G	A	0.9996444	0.000303	75920	23	0
LTX223_116004	LTX223:5:150518972:G	Longitudinal	14	5	150518972	G	A	0.9987908	0.0012092	1654	2	0
LTX223_116004	LTX223:20:56098178:C	Longitudinal	14	20	56098178	C	A	0.9995857	3.314E-05	120691	4	0
LTX223_116004	LTX223:1:236898981:C	Longitudinal	14	1	236898981	C	A	0.9995961	0	64380	0	0
LTX223_116004	LTX223:16:3823769:G	Longitudinal	14	16	3823769	G	A	0.9996101	0.0003379	38470	13	0
LTX223_116004	LTX223:15:98513905:G	Longitudinal	14	15	98513905	G	T	0.9997462	4.229E-05	70932	3	0
LTX223_116004	LTX223:1:230846230:C	Longitudinal	14	1	230846230	C	A	0.9995591	3.528E-05	56697	2	0
LTX223_115832	LTX223:1:197053484:C	Longitudinal	14	1	197053484	C	A	0.9997024	1.654E-05	60475	1	0
LTX223_115832	LTX223:2:88367465:T	Longitudinal	14	2	88367465	T	A	0.9998374	1.251E-05	79940	1	0
LTX223_115832	LTX223:12:70956841:C	Longitudinal	14	12	70956841	C	A	0.9996252	3.408E-05	58692	2	0
LTX223_115832	LTX223:12:25380276:T	Longitudinal	14	12	25380276	T	A	0.9996262	0.0001812	88285	16	1
LTX223_115832	LTX223:19:17948799:G	Longitudinal	14	19	17948799	G	A	0.9997236	0.0002211	36175	8	0
LTX223_115832	LTX223:11:120833208:A	Longitudinal	14	11	120833208	A	T	0.9998406	1.062E-05	94125	1	0
LTX223_115832	LTX223:1:59247967:C	Longitudinal	14	1	59247967	C	G	0.9993886	0	14721	0	0
LTX223_115832	LTX223:16:87744981:C	Longitudinal	14	16	87744981	C	A	0.9989987	5.27E-05	18975	1	0
LTX223_115832	LTX223:10:108439449:G	Longitudinal	14	10	108439449	G	T	0.9996025	3.223E-05	93078	3	0
LTX223_115832	LTX223:7:131122632:C	Longitudinal	14	7	131122632	C	A	0.9997752	2.498E-05	80071	2	0
LTX223_115832	LTX223:4:140640665:G	Longitudinal	14	4	140640665	G	C	0.9995708	1.385E-05	72226	1	0
LTX223_115832	LTX223:11:114027139:A	Longitudinal	14	11	114027139	A	T	0.9996373	0.0001007	49634	5	0
LTX223_115832	LTX223:16:66881106:T	Longitudinal	14	16	66881106	T	A	0.9998709	1.435E-05	69707	1	0
LTX223_115832	LTX223:3:18435986:C	Longitudinal	14	3	18435986	C	A	0.999491	0.0002545	62863	16	0
LTX223_115832	LTX223:5:169135199:C	Longitudinal	14	5	169135199	C	A	0.9996617	2.416E-05	82773	2	0
LTX223_115832	LTX223:22:38119347:G	Longitudinal	14	22	38119347	G	T	0.99952	0	72921	0	0
LTX223_115832	LTX223:1:52082818:G	Longitudinal	14	1	52082818	G	T	0.9997853	0	9317	0	0
LTX223_115832	LTX223:2:180008479:C	Longitudinal	14	2	180008479	C	A	0.9997024	1.566E-05	63849	1	0
LTX223_115832	LTX223:1:237947367:C	Longitudinal	14	1	237947367	C	A	0.999668	3.984E-05	75297	3	0
LTX223_115832	LTX223:1:161683145:G	Longitudinal	14	1	161683145	G	T	0.9998211	4.88E-05	61477	3	0
LTX223_115832	LTX223:12:52448422:G	Longitudinal	14	12	52448422	G	A	0.9994419	0.0004961	32250	16	0
LTX223_115832	LTX223:6:128540153:G	Longitudinal	14	6	128540153	G	A	0.9996154	0.0003692	65001	24	0
LTX223_115832	LTX223:5:150518972:G	Longitudinal	14	5	150518972	G	A	1	0	1446	0	0
LTX223_115832	LTX223:20:56098178:C	Longitudinal	14	20	56098178	C	A	0.999582	1.944E-05	102859	2	0
LTX223_115832	LTX223:1:236898981:C	Longitudinal	14	1	236898981	C	A	0.9994947	0	59367	0	0
LTX223_115832	LTX223:16:3823769:G	Longitudinal	14	16	3823769	G	A	0.9996795	0.0002914	34322	10	0
LTX223_115832	LTX223:15:98513905:G	Longitudinal	14	15	98513905	G	T	0.9993194	0.0003641	63175	23	1
LTX223_115832	LTX223:1:230846230:C	Longitudinal	14	1	230846230	C	A	0.9995912	3.555E-05	56262	2	0
LTX223_115737	LTX223:1:197053484:C	Longitudinal	14	1	197053484	C	A	0.9995984	0.0001446	62253	9	0
LTX223_115737	LTX223:2:88367465:T	Longitudinal	14	2	88367465	T	A	0.9997779	5.553E-05	72030	4	0
LTX223_115737	LTX223:12:70956841:C	Longitudinal	14	12	70956841	C	A	0.999513	2.029E-05	49280	1	0

LTX223_115737	LTX223:12:25380276:T	Longitudinal	14	12	25380276	T	A	0.9997357	3.448E-05	87007	3	0
LTX223_115737	LTX223:19:17948799:G	Longitudinal	14	19	17948799	G	A	0.99937	0.0005985	31745	19	0
LTX223_115737	LTX223:11:120833208:A	Longitudinal	14	11	120833208	A	T	0.9998845	2.31E-05	86585	2	0
LTX223_115737	LTX223:1:59247967:C	Longitudinal	14	1	59247967	C	G	0.9993555	0	12413	0	0
LTX223_115737	LTX223:16:87744981:C	Longitudinal	14	16	87744981	C	A	0.9987112	0.0001227	16294	2	0
LTX223_115737	LTX223:10:108439449:G	Longitudinal	14	10	108439449	G	T	0.9996972	5.407E-05	92467	5	0
LTX223_115737	LTX223:7:131122632:C	Longitudinal	14	7	131122632	C	A	0.999717	1.231E-05	81263	1	0
LTX223_115737	LTX223:4:140640665:G	Longitudinal	14	4	140640665	G	C	0.9994952	1.683E-05	59431	1	0
LTX223_115737	LTX223:11:114027139:A	Longitudinal	14	11	114027139	A	T	0.9995349	8.858E-05	45155	4	0
LTX223_115737	LTX223:16:66881106:T	Longitudinal	14	16	66881106	T	A	0.9995798	0.0001051	57114	6	0
LTX223_115737	LTX223:3:18435986:C	Longitudinal	14	3	18435986	C	A	0.999784	1.661E-05	60190	1	0
LTX223_115737	LTX223:5:169135199:C	Longitudinal	14	5	169135199	C	A	0.9995531	3.528E-05	85036	3	0
LTX223_115737	LTX223:22:38119347:G	Longitudinal	14	22	38119347	G	T	0.9996301	0	59471	0	0
LTX223_115737	LTX223:1:52082818:G	Longitudinal	14	1	52082818	G	T	0.9997354	0	7560	0	0
LTX223_115737	LTX223:2:180008479:C	Longitudinal	14	2	180008479	C	A	0.9992518	0.0004139	62814	26	1
LTX223_115737	LTX223:1:237947367:C	Longitudinal	14	1	237947367	C	A	0.9995383	5.432E-05	73636	4	0
LTX223_115737	LTX223:1:161683145:G	Longitudinal	14	1	161683145	G	T	0.9993995	0.000237	63283	15	1
LTX223_115737	LTX223:12:52448422:G	Longitudinal	14	12	52448422	G	A	0.9996579	0.0002799	32158	9	0
LTX223_115737	LTX223:6:128540153:G	Longitudinal	14	6	128540153	G	A	0.999302	0.000698	64473	45	0
LTX223_115737	LTX223:5:150518972:G	Longitudinal	14	5	150518972	G	A	1	0	1331	0	0
LTX223_115737	LTX223:20:56098178:C	Longitudinal	14	20	56098178	C	A	0.9996764	1.904E-05	105054	2	0
LTX223_115737	LTX223:1:236898981:C	Longitudinal	14	1	236898981	C	A	0.9993865	0.000115	52159	6	1
LTX223_115737	LTX223:16:3823769:G	Longitudinal	14	16	3823769	G	A	0.9996289	0.0003037	29638	9	0
LTX223_115737	LTX223:15:98513905:G	Longitudinal	14	15	98513905	G	T	0.9997107	0	62215	0	0
LTX223_115737	LTX223:1:230846230:C	Longitudinal	14	1	230846230	C	A	0.9997792	0	45291	0	0
LTX046_107462	LTX046:7:55241708:G	Longitudinal	14	7	55241708	G	C	0.9968201	0.0028007	68555	192	1
LTX046_107462	LTX046:5:7707852:C	Longitudinal	14	5	7707852	C	A	0.9979241	0.0016327	85748	140	1
LTX046_107462	LTX046:7:147336264:C	Longitudinal	14	7	147336264	C	A	0.9985952	0.001148	66200	76	1
LTX046_107462	LTX046:19:45375306:G	Longitudinal	14	19	45375306	G	C	0.9988371	0.0007753	41275	32	1
LTX046_107462	LTX046:18:8376182:C	Longitudinal	14	18	8376182	C	A	0.9983459	0.0011889	19346	23	1
LTX046_107462	LTX046:8:22023023:G	Longitudinal	14	8	22023023	G	C	0.9996672	0	6009	0	0
LTX046_107462	LTX046:2:241513261:G	Longitudinal	14	2	241513261	G	T	0.999676	0	18518	0	0
LTX046_107462	LTX046:21:41505834:C	Longitudinal	14	21	41505834	C	A	0.9983998	0.0010538	51243	54	1
LTX046_107462	LTX046:7:135384235:G	Longitudinal	14	7	135384235	G	T	0.9989366	0.0007945	81815	65	1
LTX046_107462	LTX046:10:118689468:C	Longitudinal	14	10	118689468	C	G	0.9998071	1.015E-05	98501	1	0
LTX046_107462	LTX046:17:19261251:C	Longitudinal	14	17	19261251	C	T	0.9994931	0.0004828	41429	20	0
LTX046_107462	LTX046:4:57839436:C	Longitudinal	14	4	57839436	C	G	0.9996236	4.343E-05	69078	3	0
LTX046_107462	LTX046:3:4847939:C	Longitudinal	14	3	4847939	C	G	0.9988263	0.0009232	75827	70	1

LTX046_107462	LTX046:22:43539119:C	Longitudinal	14	22	43539119	C	A	0.9993835	0	8110	0	0
LTX046_107462	LTX046:2:228882599:C	Longitudinal	14	2	228882599	C	T	0.9980954	0.0018294	39903	73	1
LTX046_107462	LTX046:4:164272221:G	Longitudinal	14	4	164272221	G	C	0.9997162	1.29E-05	77517	1	0
LTX046_107462	LTX046:10:15121020:G	Longitudinal	14	10	15121020	G	T	0.9996844	0	82376	0	0
LTX046_107462	LTX046:11:78574162:C	Longitudinal	14	11	78574162	C	A	0.9997823	3.11E-05	64313	2	0
LTX046_107462	LTX046:1:237754064:C	Longitudinal	14	1	237754064	C	T	0.9995179	0.0004247	87111	37	0
LTX046_107462	LTX046:17:7579485:C	Longitudinal	14	17	7579485	C	A	0.9958037	0.0038735	21686	84	1
LTX046_107462	LTX046:4:31144164:C	Longitudinal	14	4	31144164	C	A	0.9974704	0.0020465	78670	161	1
LTX046_107462	LTX046:18:48604750:G	Longitudinal	14	18	48604750	G	A	0.9996816	0.0002786	75383	21	0
LTX046_107462	LTX046:4:124323097:T	Longitudinal	14	4	124323097	T	A	0.9979046	0.0018131	67289	122	1
LTX046_107462	LTX046:13:30107108:C	Longitudinal	14	13	30107108	C	A	0.9995992	0	52401	0	0
LTX046_107462	LTX046:X:152830448:G	Longitudinal	14	23	152830448	G	A	0.9996894	0.0003106	22535	7	0
LTX046	LTX046:7:55241708:G	Baseline	14	7	55241708	G	C	0.9996829	3.523E-05	56773	2	0
LTX046	LTX046:5:7707852:C	Baseline	14	5	7707852	C	A	0.999768	2.442E-05	81885	2	0
LTX046	LTX046:7:147336264:C	Baseline	14	7	147336264	C	A	0.9997888	0	61564	0	0
LTX046	LTX046:19:45375306:G	Baseline	14	19	45375306	G	C	0.999628	4.134E-05	24192	1	0
LTX046	LTX046:18:8376182:C	Baseline	14	18	8376182	C	A	0.9995926	0	12272	0	0
LTX046	LTX046:8:22023023:G	Baseline	14	8	22023023	G	C	0.9993685	0	3167	0	0
LTX046	LTX046:2:241513261:G	Baseline	14	2	241513261	G	T	0.9996303	0	8115	0	0
LTX046	LTX046:21:41505834:C	Baseline	14	21	41505834	C	A	0.9995504	2.997E-05	33366	1	0
LTX046	LTX046:7:135384235:G	Baseline	14	7	135384235	G	T	0.9996331	0	59961	0	0
LTX046	LTX046:10:118689468:C	Baseline	14	10	118689468	C	G	0.9996579	0	99392	0	0
LTX046	LTX046:17:19261251:C	Baseline	14	17	19261251	C	T	0.9991642	0.0006541	27517	18	0
LTX046	LTX046:4:57839436:C	Baseline	14	4	57839436	C	G	0.99961	2.889E-05	69230	2	0
LTX046	LTX046:3:4847939:C	Baseline	14	3	4847939	C	G	0.9997115	1.311E-05	76259	1	0
LTX046	LTX046:22:43539119:C	Baseline	14	22	43539119	C	A	0.9994898	0	3920	0	0
LTX046	LTX046:2:228882599:C	Baseline	14	2	228882599	C	T	0.9994717	0.000447	24606	11	0
LTX046	LTX046:4:164272221:G	Baseline	14	4	164272221	G	C	0.9996178	0	73265	0	0
LTX046	LTX046:10:15121020:G	Baseline	14	10	15121020	G	T	0.9996416	2.472E-05	80919	2	0
LTX046	LTX046:11:78574162:C	Baseline	14	11	78574162	C	A	0.9995666	4.334E-05	46147	2	0
LTX046	LTX046:1:237754064:C	Baseline	14	1	237754064	C	T	0.9995041	0.0004698	76629	36	0
LTX046	LTX046:17:7579485:C	Baseline	14	17	7579485	C	A	0.9997948	0	14623	0	0
LTX046	LTX046:4:31144164:C	Baseline	14	4	31144164	C	A	0.9997076	1.625E-05	61552	1	0
LTX046	LTX046:18:48604750:G	Baseline	14	18	48604750	G	A	0.9998557	0.0001154	69324	8	0
LTX046	LTX046:4:124323097:T	Baseline	14	4	124323097	T	A	0.9995774	0.0002305	52060	12	0
LTX046	LTX046:13:30107108:C	Baseline	14	13	30107108	C	A	0.9996311	0	40660	0	0
LTX046	LTX046:X:152830448:G	Baseline	14	23	152830448	G	A	0.9998164	0.0001836	10891	2	0
LTX064	LTX064:17:7577121:G	Baseline	14	17	7577121	G	A	0.9878716	0.0120914	27044	327	1

LTX064	LTX064:17:61498333:A	Baseline	14	17	61498333	A	T	0.9873655	0.012596	51842	653	1
LTX064	LTX064:6:55216167:G	Baseline	14	6	55216167	G	T	0.9818084	0.0178687	27870	498	1
LTX064	LTX064:17:41245378:G	Baseline	14	17	41245378	G	A	0.9920297	0.0078815	45042	355	1
LTX064	LTX064:10:98105810:A	Baseline	14	10	98105810	A	T	0.9994365	0.0001208	49686	6	0
LTX064	LTX064:13:52707300:C	Baseline	14	13	52707300	C	A	0.9942638	0.0052827	37481	198	1
LTX064	LTX064:10:85972865:G	Baseline	14	10	85972865	G	C	0.9971561	0.0024401	56965	139	1
LTX064	LTX064:15:74327583:C	Baseline	14	15	74327583	C	A	0.9630724	0.0361891	1354	49	1
LTX064	LTX064:4:114275220:G	Baseline	14	4	114275220	G	C	0.9987034	0.0006813	45503	31	1
LTX064	LTX064:1:144859920:C	Baseline	14	1	144859920	C	T	0.9969105	0.0030557	118467	362	1
LTX064	LTX064:3:49397783:C	Baseline	14	3	49397783	C	A	0.9991367	0.0005232	38224	20	1
LTX064	LTX064:8:103357729:G	Baseline	14	8	103357729	G	A	0.9992375	0.0007244	52456	38	0
LTX064	LTX064:17:43181206:C	Baseline	14	17	43181206	C	G	0.9996197	1.902E-05	52590	1	0
LTX064	LTX064:7:151879502:C	Baseline	14	7	151879502	C	G	0.9990588	0.000353	42497	15	1
LTX064	LTX064:11:62416083:C	Baseline	14	11	62416083	C	A	0.998558	0.0007897	29126	23	1
LTX064	LTX064:9:36169923:C	Baseline	14	9	36169923	C	G	0.9996307	0	59568	0	0
LTX064	LTX064:10:90773919:G	Baseline	14	10	90773919	G	A	0.999438	0.0005152	42704	22	0
LTX064	LTX064:5:35876314:G	Baseline	14	5	35876314	G	A	0.9992038	0.0007962	6280	5	0
LTX064	LTX064:1:158390623:C	Baseline	14	1	158390623	C	G	0.9829876	2.085E-05	47965	1	0
LTX064	LTX064:6:168299035:C	Baseline	14	6	168299035	C	T	0.9994382	0.0005618	35602	20	0
LTX102	LTX102:8:52721778:C	Baseline	14	8	52721778	C	A	0.9996083	2.612E-05	38290	1	0
LTX102	LTX102:8:41792063:C	Baseline	14	8	41792063	C	A	0.9998143	4.643E-05	21536	1	0
LTX102	LTX102:8:30948434:T	Baseline	14	8	30948434	T	A	0.9996703	8.243E-05	84916	7	0
LTX102	LTX102:12:49361733:C	Baseline	14	12	49361733	C	G	0.999675	0	64611	0	0
LTX102	LTX102:13:33109925:C	Baseline	14	13	33109925	C	A	0.9995713	3.176E-05	62977	2	0
LTX102	LTX102:16:2226164:T	Baseline	14	16	2226164	T	A	0.9999395	0	16529	0	0
LTX102	LTX102:12:123430687:C	Baseline	14	12	123430687	C	A	0.9995619	3.37E-05	29674	1	0
LTX102	LTX102:13:38154108:T	Baseline	14	13	38154108	T	A	0.9998073	2.57E-05	77822	2	0
LTX102	LTX102:19:58187803:A	Baseline	14	19	58187803	A	C	0.9997863	3.052E-05	65524	2	0
LTX102	LTX102:11:92714903:T	Baseline	14	11	92714903	T	A	0.9998524	3.691E-05	27093	1	0
LTX102	LTX102:14:33004945:G	Baseline	14	14	33004945	G	T	0.9997838	2.883E-05	69378	2	0
LTX102	LTX102:1:154997038:C	Baseline	14	1	154997038	C	A	0.9989694	9.815E-05	20376	2	0
LTX102	LTX102:19:4488790:G	Baseline	14	19	4488790	G	C	0.9996324	0	16324	0	0
LTX102	LTX102:8:118847703:C	Baseline	14	8	118847703	C	G	0.9996673	0	63119	0	0
LTX102	LTX102:1:118042138:G	Baseline	14	1	118042138	G	T	0.9996087	1.701E-05	58784	1	0
LTX102	LTX102:3:113890825:G	Baseline	14	3	113890825	G	T	0.9993993	0	4994	0	0
LTX102	LTX102:11:85459443:T	Baseline	14	11	85459443	T	A	0.999836	1.64E-05	60981	1	0
LTX102	LTX102:9:132963250:G	Baseline	14	9	132963250	G	T	0.9997623	0	42075	0	0
LTX102	LTX102:1:156883232:G	Baseline	14	1	156883232	G	T	0.9994018	9.97E-05	10030	1	0

LTX102	LTX102:7:138603666:A	Baseline	14	7	138603666	A	G	0.9997244	0.0002411	87093	21	0	
LTX102	LTX102:17:7577538:C	Baseline	14	17	7577538	C	T	0.9996088	0.0002934	40896	12	0	
LTX102	LTX102:15:77425561:C	Baseline	14	15	77425561	C	A	0.9997619	3.969E-05	50396	2	0	
LTX102	LTX102:15:33855180:A	Baseline	14	15	33855180	A	C	0.9999339	8.264E-06	121005	1	0	
LTX102	LTX102:6:90398306:G	Baseline	14	6	90398306	G	C	0.9995189	2.405E-05	41575	1	0	
LTX102	LTX102:18:51731448:A	Baseline	14	18	51731448	A	C	0.9996284	0	78036	0	0	
LTX102	LTX102:12:49416133:G	Baseline	14	12	49416133	G	A	0.9995747	0.0004111	70536	29	0	
LTX102	LTX102:9:17135349:G	Baseline	14	9	17135349	G	T	0.999694	0	13074	0	0	
LTX121	LTX121:14:95570254:G	Baseline	14	14	95570254	G	T	0.9995215	0.0002111	71055	15	1	
LTX121	LTX121:17:7579358:C	Baseline	14	17	7579358	C	A	0.9991097	0.0003339	35944	12	1	
LTX121	LTX121:17:11593059:A	Baseline	14	17	11593059	A	T	0.9998057	8.638E-05	46309	4	0	
LTX121	LTX121:10:103433303:G	Baseline	14	10	103433303	G	T	0.9996708	2.743E-05	36454	1	0	
LTX121	LTX121:7:106523488:G	Baseline	14	7	106523488	G	T	0.9996727	9.961E-05	70271	7	0	
LTX121	LTX121:9:110251297:C	Baseline	14	9	110251297	C	G	0.9998955	0.0001045	9571	1	1	
LTX121	LTX121:17:43011894:C	Baseline	14	17	43011894	C	A	0.9987888	2.375E-05	42106	1	0	
LTX121	LTX121:6:51712624:G	Baseline	14	6	51712624	G	T	0.9998203	1.497E-05	66784	1	0	
LTX121	LTX121:11:48285561:G	Baseline	14	11	48285561	G	T	0.9992666	0.0004041	66809	27	1	
LTX121	LTX121:1:158736295:A	Baseline	14	1	158736295	A	T	0.9996517	6.22E-05	80390	5	0	
LTX121	LTX121:17:27899577:G	Baseline	14	17	27899577	G	T	1	0	3904	0	0	
LTX121	LTX121:1:196227523:C	Baseline	14	1	196227523	C	G	1	0	1096	0	0	
LTX121	LTX121:19:56416312:G	Baseline	14	19	56416312	G	T	0.9997456	1.211E-05	82548	1	0	
LTX121	LTX121:12:132681673:C	Baseline	14	12	132681673	C	A	0.9997494	0	27937	0	0	
LTX121	LTX121:4:88964509:G	Baseline	14	4	88964509	G	T	0.999631	2.733E-05	73178	2	0	
LTX121	LTX121:4:70798307:G	Baseline	14	4	70798307	G	T	0.9996713	0	76059	0	0	
LTX121	LTX121:5:1278910:A	Baseline	14	5	1278910	A	G	0.9998696	6.521E-05	30670	2	0	
LTX121	LTX121:8:145151305:C	Baseline	14	8	145151305	C	G	0.9996225	3.146E-05	31791	1	0	
LTX121	LTX121:12:49431006:G	Baseline	14	12	49431006	G	C	0.9991424	0.000359	50139	18	1	
LTX121	LTX121:1:120510124:G	Baseline	14	1	120510124	G	T	0.9996099	6.159E-05	48708	3	0	
LTX223	LTX223:1:197053484:C	Baseline	14	1	197053484	C	A	0.9997392	2.173E-05	46013	1	0	
LTX223	LTX223:2:88367465:T	Baseline	14	2	88367465	T	A	0.9998441	6.234E-05	64160	4	0	
LTX223	LTX223:12:70956841:C	Baseline	14	12	70956841	C	A	0.9995585	2.007E-05	49831	1	0	
LTX223	LTX223:12:25380276:T	Baseline	14	12	25380276	T	A	0.9997872	4.561E-05	65777	3	0	
LTX223	LTX223:19:17948799:G	Baseline	14	19	17948799	G	A	0.9995159	0.0004518	30984	14	0	
LTX223	LTX223:11:120833208:A	Baseline	14	11	120833208	A	T	0.9999345	2.619E-05	76364	2	0	
LTX223	LTX223:1:59247967:C	Baseline	14	1	59247967	C	G	0.9996916	0	12969	0	0	
LTX223	LTX223:16:87744981:C	Baseline	14	16	87744981	C	A	0.9990941	0	16558	0	0	
LTX223	LTX223:10:108439449:G	Baseline	14	10	108439449	G	T	0.9996907	1.473E-05	67900	1	0	
LTX223	LTX223:7:131122632:C	Baseline	14	7	131122632	C	A	0.9997261	1.712E-05	58408	1	0	

LTX223	LTX223:4:140640665:G	Baseline	14	4	140640665	G	C	0.9996498	1.668E-05	59969	1	0
LTX223	LTX223:11:114027139:A	Baseline	14	11	114027139	A	T	0.9995473	0.0001332	37551	5	0
LTX223	LTX223:16:66881106:T	Baseline	14	16	66881106	T	A	0.9998605	0	57364	0	0
LTX223	LTX223:3:18435986:C	Baseline	14	3	18435986	C	A	0.9995679	0	46287	0	0
LTX223	LTX223:5:169135199:C	Baseline	14	5	169135199	C	A	0.999538	1.593E-05	62773	1	0
LTX223	LTX223:22:38119347:G	Baseline	14	22	38119347	G	T	0.9995947	0.0001135	61678	7	0
LTX223	LTX223:1:52082818:G	Baseline	14	1	52082818	G	T	1	0	7657	0	0
LTX223	LTX223:2:180008479:C	Baseline	14	2	180008479	C	A	0.9997275	2.096E-05	47715	1	0
LTX223	LTX223:1:237947367:C	Baseline	14	1	237947367	C	A	0.9998245	0	56975	0	0
LTX223	LTX223:1:161683145:G	Baseline	14	1	161683145	G	T	0.999557	2.109E-05	47405	1	0
LTX223	LTX223:12:52448422:G	Baseline	14	12	52448422	G	A	0.999584	0.0003781	26445	10	0
LTX223	LTX223:6:128540153:G	Baseline	14	6	128540153	G	A	0.9997268	0.0002522	47576	12	0
LTX223	LTX223:5:150518972:G	Baseline	14	5	150518972	G	A	0.9992476	0.0007524	1329	1	0
LTX223	LTX223:20:56098178:C	Baseline	14	20	56098178	C	A	0.9995591	0	77117	0	0
LTX223	LTX223:1:236898981:C	Baseline	14	1	236898981	C	A	0.9994144	0.0002423	49519	12	1
LTX223	LTX223:16:3823769:G	Baseline	14	16	3823769	G	A	0.999816	0.0001472	27170	4	0
LTX223	LTX223:15:98513905:G	Baseline	14	15	98513905	G	T	0.9997672	0	47247	0	0
LTX223	LTX223:1:230846230:C	Baseline	14	1	230846230	C	A	0.9997561	0	45104	0	0
LTX046_109277	LTX046:7:55241708:G	Longitudinal	14	7	55241708	G	C	0.9959692	0.0036261	61774	224	1
LTX046_109277	LTX046:5:7707852:C	Longitudinal	14	5	7707852	C	A	0.997681	0.0020928	70720	148	1
LTX046_109277	LTX046:7:147336264:C	Longitudinal	14	7	147336264	C	A	0.9972242	0.0023768	57641	137	1
LTX046_109277	LTX046:19:45375306:G	Longitudinal	14	19	45375306	G	C	0.9958606	0.0038209	37687	144	1
LTX046_109277	LTX046:18:8376182:C	Longitudinal	14	18	8376182	C	A	0.99648	0.0030878	16193	50	1
LTX046_109277	LTX046:8:22023023:G	Longitudinal	14	8	22023023	G	C	0.9971107	0.0027449	6922	19	1
LTX046_109277	LTX046:2:241513261:G	Longitudinal	14	2	241513261	G	T	0.9979826	0.0017868	17349	31	1
LTX046_109277	LTX046:21:41505834:C	Longitudinal	14	21	41505834	C	A	0.9964995	0.0028985	44851	130	1
LTX046_109277	LTX046:7:135384235:G	Longitudinal	14	7	135384235	G	T	0.9994167	5.69E-05	70293	4	0
LTX046_109277	LTX046:10:118689468:C	Longitudinal	14	10	118689468	C	G	0.999815	1.156E-05	86509	1	0
LTX046_109277	LTX046:17:19261251:C	Longitudinal	14	17	19261251	C	T	0.9997196	0.0002523	35669	9	0
LTX046_109277	LTX046:4:57839436:C	Longitudinal	14	4	57839436	C	G	0.999616	0	62492	0	0
LTX046_109277	LTX046:3:4847939:C	Longitudinal	14	3	4847939	C	G	0.9992855	0.0005145	69977	36	1
LTX046_109277	LTX046:22:43539119:C	Longitudinal	14	22	43539119	C	A	0.9996775	0	9301	0	0
LTX046_109277	LTX046:2:228882599:C	Longitudinal	14	2	228882599	C	T	0.9992003	0.0007712	35012	27	0
LTX046_109277	LTX046:4:164272221:G	Longitudinal	14	4	164272221	G	C	0.9996857	1.571E-05	63643	1	0
LTX046_109277	LTX046:10:15121020:G	Longitudinal	14	10	15121020	G	T	0.9995589	7.352E-05	68009	5	0
LTX046_109277	LTX046:11:78574162:C	Longitudinal	14	11	78574162	C	A	0.9996095	1.775E-05	56336	1	0
LTX046_109277	LTX046:1:237754064:C	Longitudinal	14	1	237754064	C	T	0.9996552	0.0003316	75401	25	0
LTX046_109277	LTX046:17:7579485:C	Longitudinal	14	17	7579485	C	A	0.9967668	0.0030905	21032	65	1

LTX046_109277	LTX046:4:31144164:C	Longitudinal	14	4	31144164	C	A	0.9972536	0.0025076	66997	168	1
LTX046_109277	LTX046:18:48604750:G	Longitudinal	14	18	48604750	G	A	0.9996357	0.000334	65877	22	0
LTX046_109277	LTX046:4:124323097:T	Longitudinal	14	4	124323097	T	A	0.9951246	0.0046811	56611	265	1
LTX046_109277	LTX046:13:30107108:C	Longitudinal	14	13	30107108	C	A	0.9996086	0	45985	0	0
LTX046_109277	LTX046:X:152830448:G	Longitudinal	14	23	152830448	G	A	0.9995598	0.0003913	20443	8	0
LTX046_116069	LTX046:7:55241708:G	Longitudinal	14	7	55241708	G	C	0.9843348	0.0150744	52473	791	1
LTX046_116069	LTX046:5:7707852:C	Longitudinal	14	5	7707852	C	A	0.9913393	0.0081484	60503	493	1
LTX046_116069	LTX046:7:147336264:C	Longitudinal	14	7	147336264	C	A	0.9934698	0.0061208	48850	299	1
LTX046_116069	LTX046:19:45375306:G	Longitudinal	14	19	45375306	G	C	0.9913325	0.0083118	30920	257	1
LTX046_116069	LTX046:18:8376182:C	Longitudinal	14	18	8376182	C	A	0.9915424	0.0081608	13479	110	1
LTX046_116069	LTX046:8:22023023:G	Longitudinal	14	8	22023023	G	C	0.9980305	0.0016412	6093	10	1
LTX046_116069	LTX046:2:241513261:G	Longitudinal	14	2	241513261	G	T	0.9994246	0.0003596	13904	5	1
LTX046_116069	LTX046:21:41505834:C	Longitudinal	14	21	41505834	C	A	0.9943301	0.0049375	36861	182	1
LTX046_116069	LTX046:7:135384235:G	Longitudinal	14	7	135384235	G	T	0.9963287	0.0034826	58290	203	1
LTX046_116069	LTX046:10:118689468:C	Longitudinal	14	10	118689468	C	G	0.9998171	0	76532	0	0
LTX046_116069	LTX046:17:19261251:C	Longitudinal	14	17	19261251	C	T	0.9996938	0.0002722	29393	8	0
LTX046_116069	LTX046:4:57839436:C	Longitudinal	14	4	57839436	C	G	0.9997143	1.785E-05	56009	1	0
LTX046_116069	LTX046:3:4847939:C	Longitudinal	14	3	4847939	C	G	0.9986525	0.0010675	57143	61	1
LTX046_116069	LTX046:22:43539119:C	Longitudinal	14	22	43539119	C	A	0.999867	0	7520	0	0
LTX046_116069	LTX046:2:228882599:C	Longitudinal	14	2	228882599	C	T	0.9941734	0.0058266	27632	161	1
LTX046_116069	LTX046:4:164272221:G	Longitudinal	14	4	164272221	G	C	0.9997242	0	54386	0	0
LTX046_116069	LTX046:10:15121020:G	Longitudinal	14	10	15121020	G	T	0.9997276	6.41E-05	62404	4	0
LTX046_116069	LTX046:11:78574162:C	Longitudinal	14	11	78574162	C	A	0.9995966	6.37E-05	47094	3	0
LTX046_116069	LTX046:1:237754064:C	Longitudinal	14	1	237754064	C	T	0.9995516	0.0004484	64674	29	0
LTX046_116069	LTX046:17:7579485:C	Longitudinal	14	17	7579485	C	A	0.9955599	0.0037	16216	60	1
LTX046_116069	LTX046:4:31144164:C	Longitudinal	14	4	31144164	C	A	0.9936041	0.006195	59726	370	1
LTX046_116069	LTX046:18:48604750:G	Longitudinal	14	18	48604750	G	A	0.999742	0.0002027	54261	11	0
LTX046_116069	LTX046:4:124323097:T	Longitudinal	14	4	124323097	T	A	0.9920874	0.0075074	46887	352	1
LTX046_116069	LTX046:13:30107108:C	Longitudinal	14	13	30107108	C	A	0.9994509	0	40067	0	0
LTX046_116069	LTX046:X:152830448:G	Longitudinal	14	23	152830448	G	A	0.9997589	0.0002411	16591	4	0
LTX046_116064	LTX046:7:55241708:G	Longitudinal	14	7	55241708	G	C	0.9986467	0.000812	40641	33	1
LTX046_116064	LTX046:5:7707852:C	Longitudinal	14	5	7707852	C	A	0.9997445	1.965E-05	50882	1	0
LTX046_116064	LTX046:7:147336264:C	Longitudinal	14	7	147336264	C	A	0.9992884	0.0004321	39346	17	1
LTX046_116064	LTX046:19:45375306:G	Longitudinal	14	19	45375306	G	C	0.9976829	0.0019576	25031	49	1
LTX046_116064	LTX046:18:8376182:C	Longitudinal	14	18	8376182	C	A	0.9995955	0.0002023	9888	2	0
LTX046_116064	LTX046:8:22023023:G	Longitudinal	14	8	22023023	G	C	0.9997377	0	3813	0	0
LTX046_116064	LTX046:2:241513261:G	Longitudinal	14	2	241513261	G	T	0.9996716	0	9135	0	0
LTX046_116064	LTX046:21:41505834:C	Longitudinal	14	21	41505834	C	A	0.9977419	0.0019759	28342	56	1

LTX046_116064	LTX046:7:135384235:G	Longitudinal	14	7	135384235	G	T	0.9998088	2.125E-05	47069	1	0
LTX046_116064	LTX046:10:118689468:C	Longitudinal	14	10	118689468	C	G	0.9997007	0	63488	0	0
LTX046_116064	LTX046:17:19261251:C	Longitudinal	14	17	19261251	C	T	0.9997403	0.0002164	23102	5	0
LTX046_116064	LTX046:4:57839436:C	Longitudinal	14	4	57839436	C	G	0.9996884	0	41716	0	0
LTX046_116064	LTX046:3:4847939:C	Longitudinal	14	3	4847939	C	G	0.9997999	0	49970	0	0
LTX046_116064	LTX046:22:43539119:C	Longitudinal	14	22	43539119	C	A	0.999794	0	4855	0	0
LTX046_116064	LTX046:2:228882599:C	Longitudinal	14	2	228882599	C	T	0.9986466	0.0013534	22167	30	0
LTX046_116064	LTX046:4:164272221:G	Longitudinal	14	4	164272221	G	C	0.9997749	0	44423	0	0
LTX046_116064	LTX046:10:15121020:G	Longitudinal	14	10	15121020	G	T	0.9995224	2.077E-05	48155	1	0
LTX046_116064	LTX046:11:78574162:C	Longitudinal	14	11	78574162	C	A	0.9997171	8.486E-05	35351	3	0
LTX046_116064	LTX046:1:237754064:C	Longitudinal	14	1	237754064	C	T	0.9993633	0.0005992	53401	32	0
LTX046_116064	LTX046:17:7579485:C	Longitudinal	14	17	7579485	C	A	0.9989406	0.0008149	12271	10	1
LTX046_116064	LTX046:4:31144164:C	Longitudinal	14	4	31144164	C	A	0.9984576	0.0011354	46679	53	1
LTX046_116064	LTX046:18:48604750:G	Longitudinal	14	18	48604750	G	A	0.9996359	0.0002999	46685	14	0
LTX046_116064	LTX046:4:124323097:T	Longitudinal	14	4	124323097	T	A	0.9995928	0.0003529	36835	13	1
LTX046_116064	LTX046:13:30107108:C	Longitudinal	14	13	30107108	C	A	0.9996674	0	30070	0	0
LTX046_116064	LTX046:X:152830448:G	Longitudinal	14	23	152830448	G	A	0.9992812	0.000629	11129	7	0
LTX046_115913	LTX046:7:55241708:G	Longitudinal	14	7	55241708	G	C	0.9983643	0.0009487	61137	58	1
LTX046_115913	LTX046:5:7707852:C	Longitudinal	14	5	7707852	C	A	0.9975177	0.0022266	66470	148	1
LTX046_115913	LTX046:7:147336264:C	Longitudinal	14	7	147336264	C	A	0.9981506	0.0015548	61101	95	1
LTX046_115913	LTX046:19:45375306:G	Longitudinal	14	19	45375306	G	C	0.9995841	0	38474	0	0
LTX046_115913	LTX046:18:8376182:C	Longitudinal	14	18	8376182	C	A	0.999079	0.0006754	16287	11	1
LTX046_115913	LTX046:8:22023023:G	Longitudinal	14	8	22023023	G	C	1	0	7258	0	0
LTX046_115913	LTX046:2:241513261:G	Longitudinal	14	2	241513261	G	T	0.9999404	0	16789	0	0
LTX046_115913	LTX046:21:41505834:C	Longitudinal	14	21	41505834	C	A	0.9996626	2.249E-05	44458	1	0
LTX046_115913	LTX046:7:135384235:G	Longitudinal	14	7	135384235	G	T	0.9997699	2.876E-05	69540	2	0
LTX046_115913	LTX046:10:118689468:C	Longitudinal	14	10	118689468	C	G	0.9997233	1.107E-05	90335	1	0
LTX046_115913	LTX046:17:19261251:C	Longitudinal	14	17	19261251	C	T	0.9997391	0.0002029	34496	7	0
LTX046_115913	LTX046:4:57839436:C	Longitudinal	14	4	57839436	C	G	0.9992814	0	64015	0	0
LTX046_115913	LTX046:3:4847939:C	Longitudinal	14	3	4847939	C	G	0.9991646	4.248E-05	70627	3	0
LTX046_115913	LTX046:22:43539119:C	Longitudinal	14	22	43539119	C	A	0.9998806	0	8377	0	0
LTX046_115913	LTX046:2:228882599:C	Longitudinal	14	2	228882599	C	T	0.9997652	0.0002348	34069	8	0
LTX046_115913	LTX046:4:164272221:G	Longitudinal	14	4	164272221	G	C	0.9996495	1.593E-05	62771	1	0
LTX046_115913	LTX046:10:15121020:G	Longitudinal	14	10	15121020	G	T	0.9995913	0.0001168	68508	8	0
LTX046_115913	LTX046:11:78574162:C	Longitudinal	14	11	78574162	C	A	0.9994839	3.441E-05	58126	2	0
LTX046_115913	LTX046:1:237754064:C	Longitudinal	14	1	237754064	C	T	0.9997096	0.0002508	75746	19	0
LTX046_115913	LTX046:17:7579485:C	Longitudinal	14	17	7579485	C	A	0.997666	0.0019053	20994	40	1
LTX046_115913	LTX046:4:31144164:C	Longitudinal	14	4	31144164	C	A	0.9990299	0.0008059	67005	54	1

LTX046_115913	LTX046:18:48604750:G	Longitudinal	14	18	48604750	G	A	0.9996296	0.0003112	67486	21	0
LTX046_115913	LTX046:4:124323097:T	Longitudinal	14	4	124323097	T	A	0.9987816	0.001093	55812	61	1
LTX046_115913	LTX046:13:30107108:C	Longitudinal	14	13	30107108	C	A	0.9996045	2.081E-05	48043	1	0
LTX046_115913	LTX046:X:152830448:G	Longitudinal	14	23	152830448	G	A	0.999209	0.000791	21493	17	0
LTX064_108808	LTX064:17:7577121:G	Longitudinal	14	17	7577121	G	A	0.999427	0.0005372	27921	15	0
LTX064_108808	LTX064:17:61498333:A	Longitudinal	14	17	61498333	A	T	0.9997718	0.000166	48194	8	0
LTX064_108808	LTX064:6:55216167:G	Longitudinal	14	6	55216167	G	T	0.9994553	0.0002179	36715	8	1
LTX064_108808	LTX064:17:41245378:G	Longitudinal	14	17	41245378	G	A	0.9995242	0.0004377	52544	23	0
LTX064_108808	LTX064:10:98105810:A	Longitudinal	14	10	98105810	A	T	0.9996289	5.302E-05	56582	3	0
LTX064_108808	LTX064:13:52707300:C	Longitudinal	14	13	52707300	C	A	0.9993677	0.0002199	36377	8	1
LTX064_108808	LTX064:10:85972865:G	Longitudinal	14	10	85972865	G	C	0.9997384	0	57343	0	0
LTX064_108808	LTX064:15:74327583:C	Longitudinal	14	15	74327583	C	A	1	0	1958	0	0
LTX064_108808	LTX064:4:114275220:G	Longitudinal	14	4	114275220	G	C	0.9995994	0	49931	0	0
LTX064_108808	LTX064:1:144859920:C	Longitudinal	14	1	144859920	C	T	0.9993507	0.0006087	123210	75	1
LTX064_108808	LTX064:3:49397783:C	Longitudinal	14	3	49397783	C	A	0.9995275	2.363E-05	42325	1	0
LTX064_108808	LTX064:8:103357729:G	Longitudinal	14	8	103357729	G	A	0.9997385	0.0002451	61196	15	0
LTX064_108808	LTX064:17:43181206:C	Longitudinal	14	17	43181206	C	G	0.9998096	0	52510	0	0
LTX064_108808	LTX064:7:151879502:C	Longitudinal	14	7	151879502	C	G	0.9996993	0	46557	0	0
LTX064_108808	LTX064:11:62416083:C	Longitudinal	14	11	62416083	C	A	0.9996177	5.882E-05	34003	2	0
LTX064_108808	LTX064:9:36169923:C	Longitudinal	14	9	36169923	C	G	0.999749	3.346E-05	59770	2	0
LTX064_108808	LTX064:10:90773919:G	Longitudinal	14	10	90773919	G	A	0.9995658	0.0003947	50665	20	0
LTX064_108808	LTX064:5:35876314:G	Longitudinal	14	5	35876314	G	A	0.9995695	0.0004305	6969	3	0
LTX064_108808	LTX064:1:158390623:C	Longitudinal	14	1	158390623	C	G	0.9871611	0	48680	0	0
LTX064_108808	LTX064:6:168299035:C	Longitudinal	14	6	168299035	C	T	0.9997497	0.0001947	35957	7	0
LTX064_103861	LTX064:17:7577121:G	Longitudinal	14	17	7577121	G	A	0.9964731	0.0035269	34308	121	1
LTX064_103861	LTX064:17:61498333:A	Longitudinal	14	17	61498333	A	T	0.9945589	0.0053659	66531	357	1
LTX064_103861	LTX064:6:55216167:G	Longitudinal	14	6	55216167	G	T	0.9967763	0.0028077	38465	108	1
LTX064_103861	LTX064:17:41245378:G	Longitudinal	14	17	41245378	G	A	0.998164	0.0016801	57734	97	1
LTX064_103861	LTX064:10:98105810:A	Longitudinal	14	10	98105810	A	T	0.9995638	9.694E-05	61893	6	0
LTX064_103861	LTX064:13:52707300:C	Longitudinal	14	13	52707300	C	A	0.9987618	0.0007917	49264	39	1
LTX064_103861	LTX064:10:85972865:G	Longitudinal	14	10	85972865	G	C	0.9993855	0.0003874	74859	29	1
LTX064_103861	LTX064:15:74327583:C	Longitudinal	14	15	74327583	C	A	1	0	1776	0	0
LTX064_103861	LTX064:4:114275220:G	Longitudinal	14	4	114275220	G	C	0.9997212	0	57389	0	0
LTX064_103861	LTX064:1:144859920:C	Longitudinal	14	1	144859920	C	T	0.9994005	0.0005927	148469	88	1
LTX064_103861	LTX064:3:49397783:C	Longitudinal	14	3	49397783	C	A	0.9997234	2.128E-05	47002	1	0
LTX064_103861	LTX064:8:103357729:G	Longitudinal	14	8	103357729	G	A	0.9997753	0.0001947	66769	13	0
LTX064_103861	LTX064:17:43181206:C	Longitudinal	14	17	43181206	C	G	0.9996804	3.196E-05	62588	2	0
LTX064_103861	LTX064:7:151879502:C	Longitudinal	14	7	151879502	C	G	0.9996059	1.791E-05	55821	1	0

LTX064_103861	LTX064:11:62416083:C	Longitudinal	14	11	62416083	C	A	0.9997139	2.861E-05	34947	1	0
LTX064_103861	LTX064:9:36169923:C	Longitudinal	14	9	36169923	C	G	0.9998213	0	67136	0	0
LTX064_103861	LTX064:10:90773919:G	Longitudinal	14	10	90773919	G	A	0.9995834	0.0003598	52803	19	0
LTX064_103861	LTX064:5:35876314:G	Longitudinal	14	5	35876314	G	A	0.9991881	0.0008119	8622	7	0
LTX064_103861	LTX064:1:158390623:C	Longitudinal	14	1	158390623	C	G	0.9906755	1.63E-05	61344	1	0
LTX064_103861	LTX064:6:168299035:C	Longitudinal	14	6	168299035	C	T	0.9997401	0.0002199	50026	11	0
LTX102_106698	LTX102:8:52721778:C	Longitudinal	14	8	52721778	C	A	0.9995379	9.727E-05	41121	4	0
LTX102_106698	LTX102:8:41792063:C	Longitudinal	14	8	41792063	C	A	0.9997664	0	25687	0	0
LTX102_106698	LTX102:8:30948434:T	Longitudinal	14	8	30948434	T	A	0.9997802	6.867E-05	72808	5	0
LTX102_106698	LTX102:12:49361733:C	Longitudinal	14	12	49361733	C	G	0.999698	3.02E-05	66220	2	0
LTX102_106698	LTX102:13:33109925:C	Longitudinal	14	13	33109925	C	A	0.9995405	0.0001103	54411	6	0
LTX102_106698	LTX102:16:2226164:T	Longitudinal	14	16	2226164	T	A	0.9999042	4.792E-05	20866	1	0
LTX102_106698	LTX102:12:123430687:C	Longitudinal	14	12	123430687	C	A	0.9993732	5.969E-05	33505	2	0
LTX102_106698	LTX102:13:38154108:T	Longitudinal	14	13	38154108	T	A	0.9997348	1.474E-05	67865	1	0
LTX102_106698	LTX102:19:58187803:A	Longitudinal	14	19	58187803	A	C	0.9996159	0	54675	0	0
LTX102_106698	LTX102:11:92714903:T	Longitudinal	14	11	92714903	T	A	0.9999041	0	31278	0	0
LTX102_106698	LTX102:14:33004945:G	Longitudinal	14	14	33004945	G	T	0.9996614	4.617E-05	64973	3	0
LTX102_106698	LTX102:1:154997038:C	Longitudinal	14	1	154997038	C	A	0.9995677	5.404E-05	18505	1	0
LTX102_106698	LTX102:19:4488790:G	Longitudinal	14	19	4488790	G	C	0.9997933	0	19354	0	0
LTX102_106698	LTX102:8:118847703:C	Longitudinal	14	8	118847703	C	G	0.9997375	0	57138	0	0
LTX102_106698	LTX102:1:118042138:G	Longitudinal	14	1	118042138	G	T	0.9995204	0	56301	0	0
LTX102_106698	LTX102:3:113890825:G	Longitudinal	14	3	113890825	G	T	1	0	3485	0	0
LTX102_106698	LTX102:11:85459443:T	Longitudinal	14	11	85459443	T	A	0.9998057	5.298E-05	56628	3	0
LTX102_106698	LTX102:9:132963250:G	Longitudinal	14	9	132963250	G	T	0.9996733	6.125E-05	48977	3	0
LTX102_106698	LTX102:1:156883232:G	Longitudinal	14	1	156883232	G	T	0.9995905	0	12211	0	0
LTX102_106698	LTX102:7:138603666:A	Longitudinal	14	7	138603666	A	G	0.9998132	0.0001518	85652	13	0
LTX102_106698	LTX102:17:7577538:C	Longitudinal	14	17	7577538	C	T	0.9993859	0.0004421	40712	18	0
LTX102_106698	LTX102:15:77425561:C	Longitudinal	14	15	77425561	C	A	0.9998127	2.082E-05	48042	1	0
LTX102_106698	LTX102:15:33855180:A	Longitudinal	14	15	33855180	A	C	0.9999369	9.015E-06	110931	1	0
LTX102_106698	LTX102:6:90398306:G	Longitudinal	14	6	90398306	G	C	0.9996639	0	41658	0	0
LTX102_106698	LTX102:18:51731448:A	Longitudinal	14	18	51731448	A	C	0.9997597	0	70751	0	0
LTX102_106698	LTX102:12:49416133:G	Longitudinal	14	12	49416133	G	A	0.9997267	0.0002445	69533	17	0
LTX102_106698	LTX102:9:17135349:G	Longitudinal	14	9	17135349	G	T	0.9997045	0	16919	0	0
LTX038_107575	LTX038:14:51196324:G	Longitudinal	15	14	51196324	G	A	0.9996253	0.0003421	61380	21	0
LTX038_107575	LTX038:1:158576657:G	Longitudinal	15	1	158576657	G	T	0.9996961	5.209E-05	115178	6	0
LTX038_107575	LTX038:3:64132613:C	Longitudinal	15	3	64132613	C	A	0.9997191	6.106E-05	81888	5	0
LTX038_107575	LTX038:16:4836063:G	Longitudinal	15	16	4836063	G	C	0.9996067	1.873E-05	53395	1	0
LTX038_107575	LTX038:2:178098810:C	Longitudinal	15	2	178098810	C	G	0.9996337	2.289E-05	87358	2	0

LTX038_107575	LTX038:9:134010388:A	Longitudinal	15	9	134010388	A	T	0.9998129	3.742E-05	80170	3	0
LTX038_107575	LTX038:11:69456203:C	Longitudinal	15	11	69456203	C	G	0.9996179	0	36638	0	0
LTX038_107575	LTX038:3:37061826:G	Longitudinal	15	3	37061826	G	A	0.9996495	0.0002714	88434	24	0
LTX038_107575	LTX038:4:55980381:G	Longitudinal	15	4	55980381	G	A	0.9996735	0.0003139	79640	25	0
LTX038_107575	LTX038:1:198700816:G	Longitudinal	15	1	198700816	G	C	0.9998342	0	66338	0	0
LTX038_107575	LTX038:5:169020496:A	Longitudinal	15	5	169020496	A	C	0.9998047	1.221E-05	81931	1	0
LTX038_107575	LTX038:6:17772153:G	Longitudinal	15	6	17772153	G	C	0.9996595	0	117460	0	0
LTX038_107575	LTX038:12:464400:C	Longitudinal	15	12	464400	C	T	0.99975	0.0002353	68011	16	0
LTX038_107575	LTX038:15:71276480:G	Longitudinal	15	15	71276480	G	T	0.9996321	1.363E-05	146774	2	0
LTX038_107575	LTX038:1:65332716:C	Longitudinal	15	1	65332716	C	A	0.9997653	1.173E-05	85218	1	0
LTX038_107575	LTX038:1:27106535:G	Longitudinal	15	1	27106535	G	A	0.9995432	0.0004087	83194	34	0
LTX038_107575	LTX038:9:139413985:C	Longitudinal	15	9	139413985	C	T	0.999455	0.0004876	34862	17	0
LTX038_107575	LTX038:X:76939312:G	Longitudinal	15	23	76939312	G	A	0.9993316	0.000573	20944	12	0
LTX038_107575	LTX038:X:88008704:C	Longitudinal	15	23	88008704	C	A	0.9996803	1.998E-05	50043	1	0
LTX075_115734-PLA1	LTX075:7:55259515:T	Longitudinal	15	7	55259515	T	G	0.9994563	2.471E-05	80931	2	0
LTX075_115734-PLA1	LTX075:17:7578403:C	Longitudinal	15	17	7578403	C	A	0.9996758	0.0001216	24678	3	0
LTX075_115734-PLA1	LTX075:12:49949724:C	Longitudinal	15	12	49949724	C	G	0.9997444	2.556E-05	39118	1	0
LTX075_115734-PLA1	LTX075:14:81609622:C	Longitudinal	15	14	81609622	C	T	0.9988981	0.0010178	107092	109	0
LTX075_115734-PLA1	LTX075:1:114641780:A	Longitudinal	15	1	114641780	A	T	0.9995539	3.367E-05	118797	4	0
LTX075_115734-PLA1	LTX075:20:31676821:G	Longitudinal	15	20	31676821	G	A	0.9995725	0.0004044	86558	35	0
LTX075_115734-PLA1	LTX075:17:47010696:G	Longitudinal	15	17	47010696	G	C	0.999654	1.331E-05	75151	1	0
LTX075_115734-PLA1	LTX075:3:97454862:G	Longitudinal	15	3	97454862	G	C	0.9996983	0	119325	0	0
LTX075_115734-PLA1	LTX075:2:118709950:T	Longitudinal	15	2	118709950	T	A	0.9992499	5.069E-05	98648	5	0
LTX075_115734-PLA1	LTX075:20:2840714:C	Longitudinal	15	20	2840714	C	T	0.9995986	0.0003406	82219	28	0
LTX075_115734-PLA1	LTX075:17:73775131:T	Longitudinal	15	17	73775131	T	C	0.9998934	0	9383	0	0
LTX075_115734-PLA1	LTX075:22:25597408:G	Longitudinal	15	22	25597408	G	C	0.9998443	3.114E-05	64228	2	0
LTX075_115734-PLA1	LTX075:8:95503994:G	Longitudinal	15	8	95503994	G	C	0.9995481	0	128347	0	0
LTX075_115734-PLA1	LTX075:2:223787502:C	Longitudinal	15	2	223787502	C	A	0.9996197	7.607E-06	131465	1	0
LTX075_115734-PLA1	LTX075:18:8376593:G	Longitudinal	15	18	8376593	G	A	0.999763	0.0001918	88620	17	0

LTX075_115734-PLA1	LTX075:6:105609358:A	Longitudinal	15	6	105609358	A	G	0.9997588	0.0001292	116100	15	0
LTX075_115734-PLA1	LTX075:1:247654898:T	Longitudinal	15	1	247654898	T	C	0.9992184	0.0007643	57571	44	0
LTX075_115734-PLA1	LTX075:12:116457705:C	Longitudinal	15	12	116457705	C	T	0.9993867	0.0005562	140235	78	0
LTX075_115734-PLA1	LTX075:17:3717712:C	Longitudinal	15	17	3717712	C	T	0.9993912	0.0005402	116628	63	0
LTX075_115734-PLA1	LTX075:4:146653666:G	Longitudinal	15	4	146653666	G	C	0.9995734	2.438E-05	82047	2	0
LTX075_115734-PLA1	LTX075:3:172065111:G	Longitudinal	15	3	172065111	G	C	0.9997807	1.687E-05	118557	2	0
LTX075_115734-PLA1	LTX075:10:127843807:G	Longitudinal	15	10	127843807	G	A	0.9994785	0.0004734	124630	59	0
LTX075_115734-PLA1	LTX075:14:92588089:G	Longitudinal	15	14	92588089	G	T	0.9990093	0	5551	0	0
LTX075_115734-PLA1	LTX075:17:37571363:G	Longitudinal	15	17	37571363	G	C	0.9997151	1.017E-05	98283	1	0
LTX075_115734-PLA1	LTX075:14:89202773:A	Longitudinal	15	14	89202773	A	T	0.999799	5.628E-05	124382	7	0
LTX075_115734-PLA1	LTX075:X:47039288:T	Longitudinal	15	23	47039288	T	G	0.9998038	0	61157	0	0
LTX075_115734-PLA1	LTX075:X:47040716:G	Longitudinal	15	23	47040716	G	T	0.9995786	5.267E-05	18985	1	0
LTX135_109339	LTX135:12:49434516:C	Longitudinal	15	12	49434516	C	A	0.9994724	0	11373	0	0
LTX135_109339	LTX135:3:169099150:G	Longitudinal	15	3	169099150	G	A	0.999542	0.0004367	93896	41	0
LTX135_109339	LTX135:14:21869106:C	Longitudinal	15	14	21869106	C	T	0.9992803	0.0006543	91703	60	0
LTX135_109339	LTX135:12:25398284:C	Longitudinal	15	12	25398284	C	A	0.9994215	8.265E-05	96794	8	0
LTX135_109339	LTX135:14:51230611:C	Longitudinal	15	14	51230611	C	A	0.9995164	1.075E-05	93061	1	0
LTX135_109339	LTX135:1:120465292:C	Longitudinal	15	1	120465292	C	A	0.9996742	4.525E-05	110504	5	0
LTX135_109339	LTX135:19:10600420:C	Longitudinal	15	19	10600420	C	G	0.9997032	3.124E-05	64021	2	0
LTX135_109339	LTX135:14:81610301:C	Longitudinal	15	14	81610301	C	A	0.9996674	1.848E-05	108226	2	0
LTX135_109339	LTX135:15:88727459:T	Longitudinal	15	15	88727459	T	A	0.9994637	0	100694	0	0
LTX135_109339	LTX135:17:7578190:T	Longitudinal	15	17	7578190	T	C	0.9995675	0.0004063	76302	31	0
LTX135_109339	LTX135:17:29663397:G	Longitudinal	15	17	29663397	G	T	0.9995567	0	103757	0	0
LTX135_109339	LTX135:13:46716557:C	Longitudinal	15	13	46716557	C	G	0.9994078	1.742E-05	114831	2	0
LTX135_109339	LTX135:17:67079444:T	Longitudinal	15	17	67079444	T	A	0.9993149	4.09E-05	97799	4	0
LTX135_109339	LTX135:19:45262781:C	Longitudinal	15	19	45262781	C	T	0.9997166	0.0001889	21172	4	0
LTX135_109339	LTX135:5:176637330:G	Longitudinal	15	5	176637330	G	A	0.9995467	0.0004045	143388	58	0
LTX135_109339	LTX135:7:107872957:C	Longitudinal	15	7	107872957	C	A	0.9997557	2.036E-05	98228	2	0
LTX135_109339	LTX135:11:128680482:C	Longitudinal	15	11	128680482	C	T	0.999555	0.0004005	22470	9	0
LTX135_109339	LTX135:17:57724830:G	Longitudinal	15	17	57724830	G	T	0.9996481	2.133E-05	93764	2	0
LTX135_109339	LTX135:17:20156819:G	Longitudinal	15	17	20156819	G	A	0.9997334	0.0002444	90033	22	0

LTX135_109339	LTX135:1:32741594:C	Longitudinal	15	1	32741594	C	A	0.9993635	1.818E-05	54991	1	0
LTX135_109339	LTX135:17:7674212:G	Longitudinal	15	17	7674212	G	C	0.999595	1.397E-05	143193	2	0
LTX135_109339	LTX135:21:31709951:G	Longitudinal	15	21	31709951	G	C	0.9996115	2.775E-05	108113	3	0
LTX135_109339	LTX135:8:109260902:G	Longitudinal	15	8	109260902	G	C	0.9997032	0	40432	0	0
LTX135_109339	LTX135:7:1976519:C	Longitudinal	15	7	1976519	C	G	0.9995796	0	80873	0	0
LTX135_109339	LTX135:15:45007672:C	Longitudinal	15	15	45007672	C	G	0.9996273	0	56344	0	0
LTX135_109339	LTX135:15:42040907:T	Longitudinal	15	15	42040907	T	A	0.9997192	4.13E-05	121076	5	0
LTX135_109339	LTX135:3:69928297:G	Longitudinal	15	3	69928297	G	T	0.9997049	4.76E-05	105041	5	0
LTX135_109339	LTX135:X:69262973:G	Longitudinal	15	23	69262973	G	C	0.9994734	3.762E-05	26584	1	0
LTX135_109133	LTX135:12:49434516:C	Longitudinal	15	12	49434516	C	A	0.9996733	0	12245	0	0
LTX135_109133	LTX135:3:169099150:G	Longitudinal	15	3	169099150	G	A	0.9996974	0.0002179	82604	18	0
LTX135_109133	LTX135:14:21869106:C	Longitudinal	15	14	21869106	C	T	0.9997025	0.0002618	84047	22	0
LTX135_109133	LTX135:12:25398284:C	Longitudinal	15	12	25398284	C	A	0.9994616	7.022E-05	85442	6	0
LTX135_109133	LTX135:14:51230611:C	Longitudinal	15	14	51230611	C	A	0.9996634	4.987E-05	80216	4	0
LTX135_109133	LTX135:1:120465292:C	Longitudinal	15	1	120465292	C	A	0.9994631	3.098E-05	96844	3	0
LTX135_109133	LTX135:19:10600420:C	Longitudinal	15	19	10600420	C	G	0.9996389	3.283E-05	60919	2	0
LTX135_109133	LTX135:14:81610301:C	Longitudinal	15	14	81610301	C	A	0.9997846	1.026E-05	97492	1	0
LTX135_109133	LTX135:15:88727459:T	Longitudinal	15	15	88727459	T	A	0.9992551	3.238E-05	92636	3	0
LTX135_109133	LTX135:17:7578190:T	Longitudinal	15	17	7578190	T	C	0.9992853	0.000671	68556	46	1
LTX135_109133	LTX135:17:29663397:G	Longitudinal	15	17	29663397	G	T	0.9996333	1.222E-05	81815	1	0
LTX135_109133	LTX135:13:46716557:C	Longitudinal	15	13	46716557	C	G	0.9996733	1.054E-05	94877	1	0
LTX135_109133	LTX135:17:67079444:T	Longitudinal	15	17	67079444	T	A	0.9995058	8.046E-05	87005	7	0
LTX135_109133	LTX135:19:45262781:C	Longitudinal	15	19	45262781	C	T	0.9995578	0.0004422	20352	9	0
LTX135_109133	LTX135:5:176637330:G	Longitudinal	15	5	176637330	G	A	0.9996808	0.0002633	125330	33	0
LTX135_109133	LTX135:7:107872957:C	Longitudinal	15	7	107872957	C	A	0.9997262	2.489E-05	80363	2	0
LTX135_109133	LTX135:11:128680482:C	Longitudinal	15	11	128680482	C	T	0.9990276	0.0008798	21596	19	0
LTX135_109133	LTX135:17:57724830:G	Longitudinal	15	17	57724830	G	T	0.9997566	6.406E-05	78052	5	0
LTX135_109133	LTX135:17:20156819:G	Longitudinal	15	17	20156819	G	A	0.9996971	0.0002272	79238	18	0
LTX135_109133	LTX135:1:32741594:C	Longitudinal	15	1	32741594	C	A	0.9995117	5.634E-05	53244	3	0
LTX135_109133	LTX135:17:7674212:G	Longitudinal	15	17	7674212	G	C	0.9994705	2.371E-05	126546	3	0
LTX135_109133	LTX135:21:31709951:G	Longitudinal	15	21	31709951	G	C	0.9994455	0	97378	0	0
LTX135_109133	LTX135:8:109260902:G	Longitudinal	15	8	109260902	G	C	0.9995312	4.465E-05	44794	2	0
LTX135_109133	LTX135:7:1976519:C	Longitudinal	15	7	1976519	C	G	0.99974	0	76913	0	0
LTX135_109133	LTX135:15:45007672:C	Longitudinal	15	15	45007672	C	G	0.9996251	4.166E-05	48008	2	0
LTX135_109133	LTX135:15:42040907:T	Longitudinal	15	15	42040907	T	A	0.9996555	2.953E-05	101606	3	0
LTX135_109133	LTX135:3:69928297:G	Longitudinal	15	3	69928297	G	T	0.999589	2.055E-05	97331	2	0
LTX135_109133	LTX135:X:69262973:G	Longitudinal	15	23	69262973	G	C	0.9996757	8.106E-05	24672	2	0
LTX135_115984	LTX135:12:49434516:C	Longitudinal	15	12	49434516	C	A	0.9992604	0	9465	0	0

LTX135_115984	LTX135:3:169099150:G	Longitudinal	15	3	169099150	G	A	0.9992385	0.0006047	89294	54	0
LTX135_115984	LTX135:14:21869106:C	Longitudinal	15	14	21869106	C	T	0.9993987	0.0005291	83160	44	0
LTX135_115984	LTX135:12:25398284:C	Longitudinal	15	12	25398284	C	A	0.9994703	8.149E-05	98175	8	0
LTX135_115984	LTX135:14:51230611:C	Longitudinal	15	14	51230611	C	A	0.9996322	4.598E-05	87003	4	0
LTX135_115984	LTX135:1:120465292:C	Longitudinal	15	1	120465292	C	A	0.9996784	0.0001072	93273	10	0
LTX135_115984	LTX135:19:10600420:C	Longitudinal	15	19	10600420	C	G	0.9997519	0	60469	0	0
LTX135_115984	LTX135:14:81610301:C	Longitudinal	15	14	81610301	C	A	0.9997525	0	101022	0	0
LTX135_115984	LTX135:15:88727459:T	Longitudinal	15	15	88727459	T	A	0.9993007	1.166E-05	85799	1	0
LTX135_115984	LTX135:17:7578190:T	Longitudinal	15	17	7578190	T	C	0.999779	0.0002062	67887	14	0
LTX135_115984	LTX135:17:29663397:G	Longitudinal	15	17	29663397	G	T	0.9995354	2.065E-05	96854	2	0
LTX135_115984	LTX135:13:46716557:C	Longitudinal	15	13	46716557	C	G	0.9997461	1.953E-05	102422	2	0
LTX135_115984	LTX135:17:67079444:T	Longitudinal	15	17	67079444	T	A	0.9995342	5.176E-05	96606	5	0
LTX135_115984	LTX135:19:45262781:C	Longitudinal	15	19	45262781	C	T	0.9995166	0.0003625	16551	6	0
LTX135_115984	LTX135:5:176637330:G	Longitudinal	15	5	176637330	G	A	0.9992734	0.0007117	133491	95	0
LTX135_115984	LTX135:7:107872957:C	Longitudinal	15	7	107872957	C	A	0.9996238	1.14E-05	87715	1	0
LTX135_115984	LTX135:11:128680482:C	Longitudinal	15	11	128680482	C	T	0.9993781	0.0006219	19295	12	0
LTX135_115984	LTX135:17:57724830:G	Longitudinal	15	17	57724830	G	T	0.9996859	6.981E-05	85952	6	0
LTX135_115984	LTX135:17:20156819:G	Longitudinal	15	17	20156819	G	A	0.9996788	0.0002974	84055	25	0
LTX135_115984	LTX135:1:32741594:C	Longitudinal	15	1	32741594	C	A	0.999572	0	53739	0	0
LTX135_115984	LTX135:17:7674212:G	Longitudinal	15	17	7674212	G	C	0.9995961	2.578E-05	116369	3	0
LTX135_115984	LTX135:21:31709951:G	Longitudinal	15	21	31709951	G	C	0.9995935	4.065E-05	98408	4	0
LTX135_115984	LTX135:8:109260902:G	Longitudinal	15	8	109260902	G	C	0.999442	0	44806	0	0
LTX135_115984	LTX135:7:1976519:C	Longitudinal	15	7	1976519	C	G	0.9997278	1.512E-05	66128	1	0
LTX135_115984	LTX135:15:45007672:C	Longitudinal	15	15	45007672	C	G	0.9997192	2.005E-05	49865	1	0
LTX135_115984	LTX135:15:42040907:T	Longitudinal	15	15	42040907	T	A	0.999699	4.561E-05	109620	5	0
LTX135_115984	LTX135:3:69928297:G	Longitudinal	15	3	69928297	G	T	0.9997307	2.072E-05	96536	2	0
LTX135_115984	LTX135:X:69262973:G	Longitudinal	15	23	69262973	G	C	0.9989275	0	23311	0	0
LTX135_115828	LTX135:12:49434516:C	Longitudinal	15	12	49434516	C	A	0.999745	8.5E-05	11765	1	0
LTX135_115828	LTX135:3:169099150:G	Longitudinal	15	3	169099150	G	A	0.9996314	0.000311	86821	27	0
LTX135_115828	LTX135:14:21869106:C	Longitudinal	15	14	21869106	C	T	0.9993545	0.0006115	88307	54	0
LTX135_115828	LTX135:12:25398284:C	Longitudinal	15	12	25398284	C	A	0.9993907	0.0001108	90266	10	0
LTX135_115828	LTX135:14:51230611:C	Longitudinal	15	14	51230611	C	A	0.9996786	1.236E-05	80897	1	0
LTX135_115828	LTX135:1:120465292:C	Longitudinal	15	1	120465292	C	A	0.9995285	0.0001375	101796	14	0
LTX135_115828	LTX135:19:10600420:C	Longitudinal	15	19	10600420	C	G	0.9997311	0	63220	0	0
LTX135_115828	LTX135:14:81610301:C	Longitudinal	15	14	81610301	C	A	0.9998122	0	101157	0	0
LTX135_115828	LTX135:15:88727459:T	Longitudinal	15	15	88727459	T	A	0.999275	1.021E-05	97928	1	0
LTX135_115828	LTX135:17:7578190:T	Longitudinal	15	17	7578190	T	C	0.9997835	0.0001732	69276	12	0
LTX135_115828	LTX135:17:29663397:G	Longitudinal	15	17	29663397	G	T	0.9997678	1.105E-05	90458	1	0

LTX135_115828	LTX135:13:46716557:C	Longitudinal	15	13	46716557	C	G	0.9996848	0	101520	0	0
LTX135_115828	LTX135:17:67079444:T	Longitudinal	15	17	67079444	T	A	0.9995054	9.893E-05	90974	9	0
LTX135_115828	LTX135:19:45262781:C	Longitudinal	15	19	45262781	C	T	0.9995076	0.0004377	18276	8	0
LTX135_115828	LTX135:5:176637330:G	Longitudinal	15	5	176637330	G	A	0.9996157	0.0003522	124912	44	0
LTX135_115828	LTX135:7:107872957:C	Longitudinal	15	7	107872957	C	A	0.9997531	1.176E-05	85059	1	0
LTX135_115828	LTX135:11:128680482:C	Longitudinal	15	11	128680482	C	T	0.9994674	0.0004883	22529	11	0
LTX135_115828	LTX135:17:57724830:G	Longitudinal	15	17	57724830	G	T	0.9997134	4.984E-05	80264	4	0
LTX135_115828	LTX135:17:20156819:G	Longitudinal	15	17	20156819	G	A	0.9996864	0.0003024	89287	27	0
LTX135_115828	LTX135:1:32741594:C	Longitudinal	15	1	32741594	C	A	0.9994862	3.67E-05	54491	2	0
LTX135_115828	LTX135:17:7674212:G	Longitudinal	15	17	7674212	G	C	0.9996514	7.747E-06	129089	1	0
LTX135_115828	LTX135:21:31709951:G	Longitudinal	15	21	31709951	G	C	0.9996499	1.03E-05	97118	1	0
LTX135_115828	LTX135:8:109260902:G	Longitudinal	15	8	109260902	G	C	0.9988404	0	50017	0	0
LTX135_115828	LTX135:7:1976519:C	Longitudinal	15	7	1976519	C	G	0.9996641	1.292E-05	77407	1	0
LTX135_115828	LTX135:15:45007672:C	Longitudinal	15	15	45007672	C	G	0.9998236	0	51029	0	0
LTX135_115828	LTX135:15:42040907:T	Longitudinal	15	15	42040907	T	A	0.9997722	5.694E-05	105377	6	0
LTX135_115828	LTX135:3:69928297:G	Longitudinal	15	3	69928297	G	T	0.9995879	2.113E-05	94634	2	0
LTX135_115828	LTX135:X:69262973:G	Longitudinal	15	23	69262973	G	C	0.9989907	0.0001081	27742	3	0
LTX135_107474	LTX135:12:49434516:C	Longitudinal	15	12	49434516	C	A	0.9997292	0	7385	0	0
LTX135_107474	LTX135:3:169099150:G	Longitudinal	15	3	169099150	G	A	0.9995254	0.0003473	86392	30	0
LTX135_107474	LTX135:14:21869106:C	Longitudinal	15	14	21869106	C	T	0.9995692	0.0003949	83573	33	0
LTX135_107474	LTX135:12:25398284:C	Longitudinal	15	12	25398284	C	A	0.9993598	0.0001104	90597	10	0
LTX135_107474	LTX135:14:51230611:C	Longitudinal	15	14	51230611	C	A	0.9995721	1.259E-05	79451	1	0
LTX135_107474	LTX135:1:120465292:C	Longitudinal	15	1	120465292	C	A	0.9996551	3.234E-05	92769	3	0
LTX135_107474	LTX135:19:10600420:C	Longitudinal	15	19	10600420	C	G	0.9996494	3.506E-05	57045	2	0
LTX135_107474	LTX135:14:81610301:C	Longitudinal	15	14	81610301	C	A	0.99971	0	106880	0	0
LTX135_107474	LTX135:15:88727459:T	Longitudinal	15	15	88727459	T	A	0.9997461	1.209E-05	82709	1	0
LTX135_107474	LTX135:17:7578190:T	Longitudinal	15	17	7578190	T	C	0.9996783	0.0002758	65269	18	0
LTX135_107474	LTX135:17:29663397:G	Longitudinal	15	17	29663397	G	T	0.9995957	1.093E-05	91506	1	0
LTX135_107474	LTX135:13:46716557:C	Longitudinal	15	13	46716557	C	G	0.9996551	7.664E-05	104388	8	0
LTX135_107474	LTX135:17:67079444:T	Longitudinal	15	17	67079444	T	A	0.9996269	0.0001492	93814	14	0
LTX135_107474	LTX135:19:45262781:C	Longitudinal	15	19	45262781	C	T	0.9998541	7.297E-05	13704	1	0
LTX135_107474	LTX135:5:176637330:G	Longitudinal	15	5	176637330	G	A	0.9997027	0.0002592	131180	34	0
LTX135_107474	LTX135:7:107872957:C	Longitudinal	15	7	107872957	C	A	0.9997037	1.185E-05	84360	1	0
LTX135_107474	LTX135:11:128680482:C	Longitudinal	15	11	128680482	C	T	0.9994852	0.0004004	17484	7	0
LTX135_107474	LTX135:17:57724830:G	Longitudinal	15	17	57724830	G	T	0.9996119	3.327E-05	90180	3	0
LTX135_107474	LTX135:17:20156819:G	Longitudinal	15	17	20156819	G	A	0.9996656	0.0002986	83725	25	0
LTX135_107474	LTX135:1:32741594:C	Longitudinal	15	1	32741594	C	A	0.999635	0	60270	0	0
LTX135_107474	LTX135:17:7674212:G	Longitudinal	15	17	7674212	G	C	0.9998014	0	115798	0	0

LTX135_107474	LTX135:21:31709951:G	Longitudinal	15	21	31709951	G	C	0.9996534	1.926E-05	103856	2	0
LTX135_107474	LTX135:8:109260902:G	Longitudinal	15	8	109260902	G	C	0.9995567	0	38346	0	0
LTX135_107474	LTX135:7:1976519:C	Longitudinal	15	7	1976519	C	G	0.9996333	3.493E-05	57264	2	0
LTX135_107474	LTX135:15:45007672:C	Longitudinal	15	15	45007672	C	G	0.9997017	0	53640	0	0
LTX135_107474	LTX135:15:42040907:T	Longitudinal	15	15	42040907	T	A	0.999778	1.931E-05	103588	2	0
LTX135_107474	LTX135:3:69928297:G	Longitudinal	15	3	69928297	G	T	0.999625	1.974E-05	101327	2	0
LTX135_107474	LTX135:X:69262973:G	Longitudinal	15	23	69262973	G	C	0.9989479	4.209E-05	23761	1	0
LTX149_101761	LTX149:2:201462193:A	Longitudinal	15	2	201462193	A	G	0.9995353	0.0004409	83924	37	0
LTX149_101761	LTX149:6:117647416:C	Longitudinal	15	6	117647416	C	T	0.9995615	0.0004385	47887	21	0
LTX149_101761	LTX149:19:3783189:C	Longitudinal	15	19	3783189	C	T	0.9996598	0.0003118	35277	11	0
LTX149_101761	LTX149:8:117950562:G	Longitudinal	15	8	117950562	G	T	0.9993342	0	3004	0	0
LTX149_101761	LTX149:11:17629929:C	Longitudinal	15	11	17629929	C	T	1	0	19736	0	0
LTX149_101761	LTX149:20:62837060:G	Longitudinal	15	20	62837060	G	A	0.999371	0.000587	47698	28	0
LTX149_101761	LTX149:11:47200023:C	Longitudinal	15	11	47200023	C	G	0.9996435	0	36461	0	0
LTX149_101761	LTX149:3:52087959:T	Longitudinal	15	3	52087959	T	G	0.9998294	3.413E-05	58605	2	0
LTX149_101761	LTX149:3:101520185:A	Longitudinal	15	3	101520185	A	G	0.999551	0.0002313	73496	17	0
LTX149_101761	LTX149:15:40763898:G	Longitudinal	15	15	40763898	G	T	0.9996114	0.000111	18014	2	0
LTX149_101761	LTX149:10:134161560:C	Longitudinal	15	10	134161560	C	T	0.9993938	0.0005267	100627	53	0
LTX149_101761	LTX149:16:3786719:G	Longitudinal	15	16	3786719	G	A	0.9997022	0.0002531	67169	17	0
LTX149_101761	LTX149:1:160136469:G	Longitudinal	15	1	160136469	G	T	0.999621	2.808E-05	71232	2	0
LTX149_101761	LTX149:14:70633968:G	Longitudinal	15	14	70633968	G	T	0.9995778	3.619E-05	82904	3	0
LTX149_101897	LTX149:2:201462193:A	Longitudinal	15	2	201462193	A	G	0.9996688	0.000271	66432	18	0
LTX149_101897	LTX149:6:117647416:C	Longitudinal	15	6	117647416	C	T	0.9995818	0.0002788	43037	12	0
LTX149_101897	LTX149:19:3783189:C	Longitudinal	15	19	3783189	C	T	0.9995754	0.0004246	30620	13	0
LTX149_101897	LTX149:8:117950562:G	Longitudinal	15	8	117950562	G	T	1	0	3722	0	0
LTX149_101897	LTX149:11:17629929:C	Longitudinal	15	11	17629929	C	T	0.9998718	0.0001282	15600	2	0
LTX149_101897	LTX149:20:62837060:G	Longitudinal	15	20	62837060	G	A	0.9995124	0.0004486	51276	23	0
LTX149_101897	LTX149:11:47200023:C	Longitudinal	15	11	47200023	C	G	0.9998144	0	32327	0	0
LTX149_101897	LTX149:3:52087959:T	Longitudinal	15	3	52087959	T	G	0.9998679	2.202E-05	45415	1	0
LTX149_101897	LTX149:3:101520185:A	Longitudinal	15	3	101520185	A	G	0.9997529	0.0001941	56668	11	0
LTX149_101897	LTX149:15:40763898:G	Longitudinal	15	15	40763898	G	T	0.9996332	0	16358	0	0
LTX149_101897	LTX149:10:134161560:C	Longitudinal	15	10	134161560	C	T	0.9993125	0.0005818	75632	44	0
LTX149_101897	LTX149:16:3786719:G	Longitudinal	15	16	3786719	G	A	0.9997154	0.000249	56220	14	0
LTX149_101897	LTX149:1:160136469:G	Longitudinal	15	1	160136469	G	T	0.9997194	1.754E-05	57017	1	0
LTX149_101897	LTX149:14:70633968:G	Longitudinal	15	14	70633968	G	T	0.9998163	0	65319	0	0
LTX149_101671	LTX149:2:201462193:A	Longitudinal	15	2	201462193	A	G	0.9996206	0.000321	68533	22	0
LTX149_101671	LTX149:6:117647416:C	Longitudinal	15	6	117647416	C	T	0.9997409	0.0002193	50170	11	0
LTX149_101671	LTX149:19:3783189:C	Longitudinal	15	19	3783189	C	T	0.999668	0.0003083	42169	13	0

LTX149_101671	LTX149:8:117950562:G	Longitudinal	15	8	117950562	G	T	1	0	4549	0	0
LTX149_101671	LTX149:11:17629929:C	Longitudinal	15	11	17629929	C	T	0.9997895	0.0001263	23755	3	0
LTX149_101671	LTX149:20:62837060:G	Longitudinal	15	20	62837060	G	A	0.9996184	0.0003452	55034	19	0
LTX149_101671	LTX149:11:47200023:C	Longitudinal	15	11	47200023	C	G	0.9996393	0	38815	0	0
LTX149_101671	LTX149:3:52087959:T	Longitudinal	15	3	52087959	T	G	0.9997667	1.458E-05	68587	1	0
LTX149_101671	LTX149:3:101520185:A	Longitudinal	15	3	101520185	A	G	0.9996482	0.0003365	65370	22	0
LTX149_101671	LTX149:15:40763898:G	Longitudinal	15	15	40763898	G	T	0.9997135	0	24433	0	0
LTX149_101671	LTX149:10:134161560:C	Longitudinal	15	10	134161560	C	T	0.9994462	0.0005095	90283	46	0
LTX149_101671	LTX149:16:3786719:G	Longitudinal	15	16	3786719	G	A	0.9996761	0.0002898	58653	17	0
LTX149_101671	LTX149:1:160136469:G	Longitudinal	15	1	160136469	G	T	0.9996088	5.589E-05	71575	4	0
LTX149_101671	LTX149:14:70633968:G	Longitudinal	15	14	70633968	G	T	0.9995763	4.1E-05	73165	3	0
LTX160_109268	LTX160:12:25398284:C	Longitudinal	15	12	25398284	C	A	0.9993243	0.0001956	56234	11	0
LTX160_109268	LTX160:10:102896566:T	Longitudinal	15	10	102896566	T	A	0.9996634	8.415E-05	11884	1	0
LTX160_109268	LTX160:2:27601137:C	Longitudinal	15	2	27601137	C	A	0.999646	0	22601	0	0
LTX160_109268	LTX160:2:141267605:C	Longitudinal	15	2	141267605	C	A	0.9997677	0	25830	0	0
LTX160_109268	LTX160:15:24921526:G	Longitudinal	15	15	24921526	G	T	0.9997985	0.0001008	49625	5	0
LTX160_109268	LTX160:22:21990773:C	Longitudinal	15	22	21990773	C	T	0.9993166	0.0006537	33657	22	0
LTX160_109268	LTX160:11:104034545:G	Longitudinal	15	11	104034545	G	T	0.9998217	2.548E-05	39254	1	0
LTX160_109268	LTX160:1:248512475:C	Longitudinal	15	1	248512475	C	G	0.9992766	5.426E-05	55293	3	0
LTX160_109268	LTX160:1:2519781:G	Longitudinal	15	1	2519781	G	T	0.9996982	0	9942	0	0
LTX160_109268	LTX160:4:66356134:G	Longitudinal	15	4	66356134	G	A	0.9992302	0.0007402	33776	25	0
LTX160_109268	LTX160:11:64622898:T	Longitudinal	15	11	64622898	T	A	0.9993025	4.5E-05	44447	2	0
LTX160_109268	LTX160:7:97361937:G	Longitudinal	15	7	97361937	G	C	0.9994495	3.058E-05	32696	1	0
LTX160_109268	LTX160:1:2528054:G	Longitudinal	15	1	2528054	G	T	0.9997614	3.409E-05	29336	1	0
LTX160_109268	LTX160:16:84035466:C	Longitudinal	15	16	84035466	C	A	0.9998582	0	28216	0	0
LTX160_109268	LTX160:5:140744399:C	Longitudinal	15	5	140744399	C	T	0.9995946	0.0003648	49339	18	0
LTX160_109268	LTX160:1:26882044:C	Longitudinal	15	1	26882044	C	G	0.9997531	0	12149	0	0
LTX160_109268	LTX160:1:62737162:C	Longitudinal	15	1	62737162	C	A	0.9995591	0.0001138	70310	8	0
LTX160_109268	LTX160:2:25047252:C	Longitudinal	15	2	25047252	C	G	0.9997435	0	58474	0	0
LTX160_109268	LTX160:6:70871828:G	Longitudinal	15	6	70871828	G	T	0.9997011	1.868E-05	53530	1	0
LTX160_109268	LTX160:19:47491255:C	Longitudinal	15	19	47491255	C	T	0.9997026	0.0002974	60515	18	0
LTX160_109268	LTX160:12:29464049:T	Longitudinal	15	12	29464049	T	C	0.9996378	0.000305	52463	16	0
LTX160_109268	LTX160:18:61602264:G	Longitudinal	15	18	61602264	G	C	0.9995322	0	42749	0	0
LTX160_109268	LTX160:10:43292571:C	Longitudinal	15	10	43292571	C	A	0.9996598	2.346E-05	85239	2	0
LTX160_109268	LTX160:11:66190163:G	Longitudinal	15	11	66190163	G	A	0.9995248	0.0004752	25250	12	0
LTX160_109268	LTX160:20:2375907:G	Longitudinal	15	20	2375907	G	T	0.9995572	0	36134	0	0
LTX160_109268	LTX160:19:11138504:G	Longitudinal	15	19	11138504	G	T	0.9997033	4.239E-05	47186	2	0
LTX160_109268	LTX160:10:46999601:G	Longitudinal	15	10	46999601	G	A	NaN	NaN	0		0

LTX038_107480	LTX038:14:51196324:G	Longitudinal	15	14	51196324	G	A	0.9758855	0.0240668	42008	1011	1
LTX038_107480	LTX038:1:158576657:G	Longitudinal	15	1	158576657	G	T	0.9850472	0.0145116	79316	1151	1
LTX038_107480	LTX038:3:64132613:C	Longitudinal	15	3	64132613	C	A	0.9848796	0.0149026	55091	821	1
LTX038_107480	LTX038:16:4836063:G	Longitudinal	15	16	4836063	G	C	0.9997883	0	33073	0	0
LTX038_107480	LTX038:2:178098810:C	Longitudinal	15	2	178098810	C	G	0.9771186	0.0222527	52488	1168	1
LTX038_107480	LTX038:9:134010388:A	Longitudinal	15	9	134010388	A	T	0.9811918	0.0186888	50244	939	1
LTX038_107480	LTX038:11:69456203:C	Longitudinal	15	11	69456203	C	G	0.9881456	0.0111664	18896	211	1
LTX038_107480	LTX038:3:37061826:G	Longitudinal	15	3	37061826	G	A	0.999787	0.0001243	56326	7	0
LTX038_107480	LTX038:4:55980381:G	Longitudinal	15	4	55980381	G	A	0.9998258	0.0001742	51671	9	0
LTX038_107480	LTX038:1:198700816:G	Longitudinal	15	1	198700816	G	C	0.9996942	0	45780	0	0
LTX038_107480	LTX038:5:169020496:A	Longitudinal	15	5	169020496	A	C	0.9998043	0	51095	0	0
LTX038_107480	LTX038:6:17772153:G	Longitudinal	15	6	17772153	G	C	0.999786	0	79451	0	0
LTX038_107480	LTX038:12:464400:C	Longitudinal	15	12	464400	C	T	0.9998427	0.0001573	44488	7	0
LTX038_107480	LTX038:15:71276480:G	Longitudinal	15	15	71276480	G	T	0.9996255	3.405E-05	88110	3	0
LTX038_107480	LTX038:1:65332716:C	Longitudinal	15	1	65332716	C	A	0.9873871	0.0121519	54230	659	1
LTX038_107480	LTX038:1:27106535:G	Longitudinal	15	1	27106535	G	A	0.999496	0.000483	47618	23	0
LTX038_107480	LTX038:9:139413985:C	Longitudinal	15	9	139413985	C	T	0.9993783	0.0005802	24129	14	0
LTX038_107480	LTX038:X:76939312:G	Longitudinal	15	23	76939312	G	A	0.9993046	0.0005057	15819	8	0
LTX038_107480	LTX038:X:88008704:C	Longitudinal	15	23	88008704	C	A	0.978825	0.0208247	31405	654	1
LTX160_116067	LTX160:12:25398284:C	Longitudinal	15	12	25398284	C	A	0.9993597	0.0001281	54659	7	0
LTX160_116067	LTX160:10:102896566:T	Longitudinal	15	10	102896566	T	A	0.9995635	0.0001746	11455	2	0
LTX160_116067	LTX160:2:27601137:C	Longitudinal	15	2	27601137	C	A	0.9996794	0	21835	0	0
LTX160_116067	LTX160:2:141267605:C	Longitudinal	15	2	141267605	C	A	0.9994976	0	29859	0	0
LTX160_116067	LTX160:15:24921526:G	Longitudinal	15	15	24921526	G	T	0.9995564	5.545E-05	54101	3	0
LTX160_116067	LTX160:22:21990773:C	Longitudinal	15	22	21990773	C	T	0.9996257	0.0003743	34735	13	0
LTX160_116067	LTX160:11:104034545:G	Longitudinal	15	11	104034545	G	T	0.9996344	7.312E-05	54702	4	0
LTX160_116067	LTX160:1:248512475:C	Longitudinal	15	1	248512475	C	G	0.9995215	0	62697	0	0
LTX160_116067	LTX160:1:2519781:G	Longitudinal	15	1	2519781	G	T	0.999634	0	10930	0	0
LTX160_116067	LTX160:4:66356134:G	Longitudinal	15	4	66356134	G	A	0.9994236	0.000524	38166	20	0
LTX160_116067	LTX160:11:64622898:T	Longitudinal	15	11	64622898	T	A	0.9990692	6.347E-05	47269	3	0
LTX160_116067	LTX160:7:97361937:G	Longitudinal	15	7	97361937	G	C	0.9996062	5.626E-05	35549	2	0
LTX160_116067	LTX160:1:2528054:G	Longitudinal	15	1	2528054	G	T	0.9991629	0.0006279	33447	21	1
LTX160_116067	LTX160:16:84035466:C	Longitudinal	15	16	84035466	C	A	0.99952	0	29169	0	0
LTX160_116067	LTX160:5:140744399:C	Longitudinal	15	5	140744399	C	T	0.9996006	0.0003804	52577	20	0
LTX160_116067	LTX160:1:26882044:C	Longitudinal	15	1	26882044	C	G	0.9992589	7.411E-05	13493	1	0
LTX160_116067	LTX160:1:62737162:C	Longitudinal	15	1	62737162	C	A	0.9989701	1.256E-05	79618	1	0
LTX160_116067	LTX160:2:25047252:C	Longitudinal	15	2	25047252	C	G	0.9997321	0	67193	0	0
LTX160_116067	LTX160:6:70871828:G	Longitudinal	15	6	70871828	G	T	0.9997877	3.266E-05	61235	2	0

LTX160_116067	LTX160:19:47491255:C	Longitudinal	15	19	47491255	C	T	0.9997572	0.0001907	57668	11	0
LTX160_116067	LTX160:12:29464049:T	Longitudinal	15	12	29464049	T	C	0.9997428	0.0002021	54440	11	0
LTX160_116067	LTX160:18:61602264:G	Longitudinal	15	18	61602264	G	C	0.9996605	0	44182	0	0
LTX160_116067	LTX160:10:43292571:C	Longitudinal	15	10	43292571	C	A	0.999641	2.476E-05	80782	2	0
LTX160_116067	LTX160:11:66190163:G	Longitudinal	15	11	66190163	G	A	0.9993653	0.000544	22058	12	0
LTX160_116067	LTX160:20:2375907:G	Longitudinal	15	20	2375907	G	T	0.9996732	0	39783	0	0
LTX160_116067	LTX160:19:11138504:G	Longitudinal	15	19	11138504	G	T	0.999662	6.338E-05	47335	3	0
LTX160_116067	LTX160:10:46999601:G	Longitudinal	15	10	46999601	G	A	NaN	NaN	0		0
LTX160_115910	LTX160:12:25398284:C	Longitudinal	15	12	25398284	C	A	0.9995118	0.0001046	57351	6	0
LTX160_115910	LTX160:10:102896566:T	Longitudinal	15	10	102896566	T	A	0.9996357	7.286E-05	13725	1	0
LTX160_115910	LTX160:2:27601137:C	Longitudinal	15	2	27601137	C	A	0.9996458	0	25408	0	0
LTX160_115910	LTX160:2:141267605:C	Longitudinal	15	2	141267605	C	A	0.9960506	0.0024304	29625	72	1
LTX160_115910	LTX160:15:24921526:G	Longitudinal	15	15	24921526	G	T	0.9995878	7.927E-05	63075	5	0
LTX160_115910	LTX160:22:21990773:C	Longitudinal	15	22	21990773	C	T	0.9995032	0.0004495	42273	19	0
LTX160_115910	LTX160:11:104034545:G	Longitudinal	15	11	104034545	G	T	0.9995913	2.044E-05	48933	1	0
LTX160_115910	LTX160:1:248512475:C	Longitudinal	15	1	248512475	C	G	0.9989011	0.0005827	60061	35	1
LTX160_115910	LTX160:1:2519781:G	Longitudinal	15	1	2519781	G	T	0.9996358	7.284E-05	13728	1	0
LTX160_115910	LTX160:4:66356134:G	Longitudinal	15	4	66356134	G	A	0.9995525	0.0004211	37992	16	0
LTX160_115910	LTX160:11:64622898:T	Longitudinal	15	11	64622898	T	A	0.9993276	1.921E-05	52053	1	0
LTX160_115910	LTX160:7:97361937:G	Longitudinal	15	7	97361937	G	C	0.9997644	0	33951	0	0
LTX160_115910	LTX160:1:2528054:G	Longitudinal	15	1	2528054	G	T	0.9996324	2.626E-05	38087	1	0
LTX160_115910	LTX160:16:84035466:C	Longitudinal	15	16	84035466	C	A	0.9997347	2.947E-05	33929	1	0
LTX160_115910	LTX160:5:140744399:C	Longitudinal	15	5	140744399	C	T	0.9990268	0.0007609	56512	43	0
LTX160_115910	LTX160:1:26882044:C	Longitudinal	15	1	26882044	C	G	0.9993251	0.0005399	14818	8	1
LTX160_115910	LTX160:1:62737162:C	Longitudinal	15	1	62737162	C	A	0.9995807	6.988E-05	85866	6	0
LTX160_115910	LTX160:2:25047252:C	Longitudinal	15	2	25047252	C	G	0.9996401	2.666E-05	75025	2	0
LTX160_115910	LTX160:6:70871828:G	Longitudinal	15	6	70871828	G	T	0.9996461	0	62168	0	0
LTX160_115910	LTX160:19:47491255:C	Longitudinal	15	19	47491255	C	T	0.9987787	0.0011766	67140	79	1
LTX160_115910	LTX160:12:29464049:T	Longitudinal	15	12	29464049	T	C	0.9998082	0.0001918	57345	11	0
LTX160_115910	LTX160:18:61602264:G	Longitudinal	15	18	61602264	G	C	0.9990452	0.0005229	43987	23	1
LTX160_115910	LTX160:10:43292571:C	Longitudinal	15	10	43292571	C	A	0.9990697	0.0002547	90291	23	1
LTX160_115910	LTX160:11:66190163:G	Longitudinal	15	11	66190163	G	A	0.9994492	0.0005114	25419	13	0
LTX160_115910	LTX160:20:2375907:G	Longitudinal	15	20	2375907	G	T	0.9997112	4.126E-05	48473	2	0
LTX160_115910	LTX160:19:11138504:G	Longitudinal	15	19	11138504	G	T	0.9997171	1.886E-05	53013	1	0
LTX160_115910	LTX160:10:46999601:G	Longitudinal	15	10	46999601	G	A	NaN	NaN	0		0
LTX160_115855	LTX160:12:25398284:C	Longitudinal	15	12	25398284	C	A	0.9985398	0.000962	58210	56	1
LTX160_115855	LTX160:10:102896566:T	Longitudinal	15	10	102896566	T	A	0.9998064	0	10332	0	0
LTX160_115855	LTX160:2:27601137:C	Longitudinal	15	2	27601137	C	A	0.9989539	0.0008642	21986	19	1

LTX160_115855	LTX160:2:141267605:C	Longitudinal	15	2	141267605	C	A	0.9990572	0.0002694	29698	8	1
LTX160_115855	LTX160:15:24921526:G	Longitudinal	15	15	24921526	G	T	0.9996118	4.313E-05	46367	2	0
LTX160_115855	LTX160:22:21990773:C	Longitudinal	15	22	21990773	C	T	0.9997977	0.0002023	29654	6	0
LTX160_115855	LTX160:11:104034545:G	Longitudinal	15	11	104034545	G	T	0.9997799	2.201E-05	45424	1	0
LTX160_115855	LTX160:1:248512475:C	Longitudinal	15	1	248512475	C	G	0.9988266	0.000526	49427	26	1
LTX160_115855	LTX160:1:2519781:G	Longitudinal	15	1	2519781	G	T	0.9998088	0	10459	0	0
LTX160_115855	LTX160:4:66356134:G	Longitudinal	15	4	66356134	G	A	0.9997002	0.0002398	33355	8	0
LTX160_115855	LTX160:11:64622898:T	Longitudinal	15	11	64622898	T	A	0.9994999	0	43992	0	0
LTX160_115855	LTX160:7:97361937:G	Longitudinal	15	7	97361937	G	C	0.9997523	3.539E-05	28260	1	0
LTX160_115855	LTX160:1:2528054:G	Longitudinal	15	1	2528054	G	T	0.9995738	3.552E-05	28157	1	0
LTX160_115855	LTX160:16:84035466:C	Longitudinal	15	16	84035466	C	A	0.9994066	0	25280	0	0
LTX160_115855	LTX160:5:140744399:C	Longitudinal	15	5	140744399	C	T	0.9992576	0.0007012	48490	34	0
LTX160_115855	LTX160:1:26882044:C	Longitudinal	15	1	26882044	C	G	0.9994186	0	12040	0	0
LTX160_115855	LTX160:1:62737162:C	Longitudinal	15	1	62737162	C	A	0.9988818	0.0007592	72441	55	1
LTX160_115855	LTX160:2:25047252:C	Longitudinal	15	2	25047252	C	G	0.9994835	0.0002315	56150	13	1
LTX160_115855	LTX160:6:70871828:G	Longitudinal	15	6	70871828	G	T	0.9989552	0.0007314	57428	42	1
LTX160_115855	LTX160:19:47491255:C	Longitudinal	15	19	47491255	C	T	0.9996031	0.000378	52906	20	0
LTX160_115855	LTX160:12:29464049:T	Longitudinal	15	12	29464049	T	C	0.9997937	0.0001875	53333	10	0
LTX160_115855	LTX160:18:61602264:G	Longitudinal	15	18	61602264	G	C	0.9991945	0.0004264	42211	18	1
LTX160_115855	LTX160:10:43292571:C	Longitudinal	15	10	43292571	C	A	0.9995063	3.702E-05	81027	3	0
LTX160_115855	LTX160:11:66190163:G	Longitudinal	15	11	66190163	G	A	0.9992855	0.0006725	23792	16	0
LTX160_115855	LTX160:20:2375907:G	Longitudinal	15	20	2375907	G	T	0.9997946	2.935E-05	34077	1	0
LTX160_115855	LTX160:19:11138504:G	Longitudinal	15	19	11138504	G	T	0.9997059	2.263E-05	44198	1	0
LTX160_115855	LTX160:10:46999601:G	Longitudinal	15	10	46999601	G	A	NaN	NaN	0		0
LTX160_107440	LTX160:12:25398284:C	Longitudinal	15	12	25398284	C	A	0.9994076	7.794E-05	64149	5	0
LTX160_107440	LTX160:10:102896566:T	Longitudinal	15	10	102896566	T	A	0.9994706	0.0001765	11333	2	0
LTX160_107440	LTX160:2:27601137:C	Longitudinal	15	2	27601137	C	A	0.9994799	0	21151	0	0
LTX160_107440	LTX160:2:141267605:C	Longitudinal	15	2	141267605	C	A	0.9994075	6.237E-05	32068	2	0
LTX160_107440	LTX160:15:24921526:G	Longitudinal	15	15	24921526	G	T	0.9996016	9.959E-05	40165	4	0
LTX160_107440	LTX160:22:21990773:C	Longitudinal	15	22	21990773	C	T	0.9996867	0.000282	31919	9	0
LTX160_107440	LTX160:11:104034545:G	Longitudinal	15	11	104034545	G	T	0.9996076	0	50965	0	0
LTX160_107440	LTX160:1:248512475:C	Longitudinal	15	1	248512475	C	G	0.9996028	1.727E-05	57911	1	0
LTX160_107440	LTX160:1:2519781:G	Longitudinal	15	1	2519781	G	T	0.9995846	0	12037	0	0
LTX160_107440	LTX160:4:66356134:G	Longitudinal	15	4	66356134	G	A	0.999671	0.0002784	39510	11	0
LTX160_107440	LTX160:11:64622898:T	Longitudinal	15	11	64622898	T	A	0.9994496	0	41786	0	0
LTX160_107440	LTX160:7:97361937:G	Longitudinal	15	7	97361937	G	C	0.9993632	3.352E-05	29837	1	0
LTX160_107440	LTX160:1:2528054:G	Longitudinal	15	1	2528054	G	T	0.9997786	0	27104	0	0
LTX160_107440	LTX160:16:84035466:C	Longitudinal	15	16	84035466	C	A	0.9993887	0	24539	0	0

LTX160_107440	LTX160:5:140744399:C	Longitudinal	15	5	140744399	C	T	0.9992088	0.000697	53082	37	0	
LTX160_107440	LTX160:1:26882044:C	Longitudinal	15	1	26882044	C	G	0.9992189	0	11522	0	0	
LTX160_107440	LTX160:1:62737162:C	Longitudinal	15	1	62737162	C	A	0.9995479	0.0001884	79633	15	0	
LTX160_107440	LTX160:2:25047252:C	Longitudinal	15	2	25047252	C	G	0.9996664	0	56956	0	0	
LTX160_107440	LTX160:6:70871828:G	Longitudinal	15	6	70871828	G	T	0.9997024	5.952E-05	67206	4	0	
LTX160_107440	LTX160:19:47491255:C	Longitudinal	15	19	47491255	C	T	0.9995361	0.0004453	53893	24	0	
LTX160_107440	LTX160:12:29464049:T	Longitudinal	15	12	29464049	T	C	0.9997766	0.0001436	62661	9	0	
LTX160_107440	LTX160:18:61602264:G	Longitudinal	15	18	61602264	G	C	0.9996785	4.019E-05	49761	2	0	
LTX160_107440	LTX160:10:43292571:C	Longitudinal	15	10	43292571	C	A	0.9996585	4.554E-05	87835	4	0	
LTX160_107440	LTX160:11:66190163:G	Longitudinal	15	11	66190163	G	A	0.9993569	0.0005972	21770	13	0	
LTX160_107440	LTX160:20:2375907:G	Longitudinal	15	20	2375907	G	T	0.9993561	2.927E-05	34168	1	0	
LTX160_107440	LTX160:19:11138504:G	Longitudinal	15	19	11138504	G	T	0.9997476	0	43573	0	0	
LTX160_107440	LTX160:10:46999601:G	Longitudinal	15	10	46999601	G	A	NaN	NaN	0		0	
LTX038_107440	LTX038:14:51196324:G	Baseline	15	14	51196324	G	A	0.9245283	0.0754717	21730	1640	1	
LTX038_107440	LTX038:1:158576657:G	Baseline	15	1	158576657	G	T	0.9102262	0.0895807	46606	4175	1	
LTX038_107440	LTX038:3:64132613:C	Baseline	15	3	64132613	C	A	0.9251639	0.0744572	26391	1965	1	
LTX038_107440	LTX038:16:4836063:G	Baseline	15	16	4836063	G	C	0.9741291	0.0254928	18515	472	1	
LTX038_107440	LTX038:2:178098810:C	Baseline	15	2	178098810	C	G	0.9401191	0.0594229	34936	2076	1	
LTX038_107440	LTX038:9:134010388:A	Baseline	15	9	134010388	A	T	0.9344766	0.0653223	34812	2274	1	
LTX038_107440	LTX038:11:69456203:C	Baseline	15	11	69456203	C	G	0.9951187	0.0043636	13521	59	1	
LTX038_107440	LTX038:3:37061826:G	Baseline	15	3	37061826	G	A	0.9973228	0.0025827	31750	82	1	
LTX038_107440	LTX038:4:55980381:G	Baseline	15	4	55980381	G	A	0.9936772	0.0063228	30999	196	1	
LTX038_107440	LTX038:1:198700816:G	Baseline	15	1	198700816	G	C	0.994855	0.0049	36735	180	1	
LTX038_107440	LTX038:5:169020496:A	Baseline	15	5	169020496	A	C	0.9997381	0	34366	0	0	
LTX038_107440	LTX038:6:17772153:G	Baseline	15	6	17772153	G	C	0.9996338	0	43692	0	0	
LTX038_107440	LTX038:12:464400:C	Baseline	15	12	464400	C	T	0.996926	0.003074	32531	100	1	
LTX038_107440	LTX038:15:71276480:G	Baseline	15	15	71276480	G	T	0.9987317	0.0008741	58344	51	1	
LTX038_107440	LTX038:1:65332716:C	Baseline	15	1	65332716	C	A	0.9794415	0.0202988	42367	860	1	
LTX038_107440	LTX038:1:27106535:G	Baseline	15	1	27106535	G	A	0.9846386	0.0153184	23240	356	1	
LTX038_107440	LTX038:9:139413985:C	Baseline	15	9	139413985	C	T	0.9992747	0.0007253	11030	8	0	
LTX038_107440	LTX038:X:76939312:G	Baseline	15	23	76939312	G	A	0.9972275	0.0025507	9017	23	1	
LTX038_107440	LTX038:X:88008704:C	Baseline	15	23	88008704	C	A	0.8640617	0.1357392	20090	2727	1	
LTX075_107440	LTX075:7:55259515:T	Baseline	15	7	55259515	T	G	0.9998349	2.063E-05	48465	1	0	
LTX075_107440	LTX075:17:7578403:C	Baseline	15	17	7578403	C	A	0.9994454	0.0001232	16228	2	0	
LTX075_107440	LTX075:12:49949724:C	Baseline	15	12	49949724	C	G	0.9998342	0	18089	0	0	
LTX075_107440	LTX075:14:81609622:C	Baseline	15	14	81609622	C	T	0.9995713	0.0004287	58319	25	0	
LTX075_107440	LTX075:1:114641780:A	Baseline	15	1	114641780	A	T	0.9996577	1.426E-05	70113	1	0	
LTX075_107440	LTX075:20:31676821:G	Baseline	15	20	31676821	G	A	0.9996408	0.0003367	44545	15	0	

LTX075	LTX075:17:47010696:G	Baseline	15	17	47010696	G	C	0.9996773	2.151E-05	46481	1	0
LTX075	LTX075:3:97454862:G	Baseline	15	3	97454862	G	C	0.9996118	1.493E-05	66970	1	0
LTX075	LTX075:2:118709950:T	Baseline	15	2	118709950	T	A	0.9996179	6.947E-05	57578	4	0
LTX075	LTX075:20:2840714:C	Baseline	15	20	2840714	C	T	0.9995462	0.0004106	46278	19	0
LTX075	LTX075:17:73775131:T	Baseline	15	17	73775131	T	C	0.9992103	0.0007897	5065	4	0
LTX075	LTX075:22:25597408:G	Baseline	15	22	25597408	G	C	0.9998784	0	32905	0	0
LTX075	LTX075:8:95503994:G	Baseline	15	8	95503994	G	C	0.9997815	1.285E-05	77793	1	0
LTX075	LTX075:2:223787502:C	Baseline	15	2	223787502	C	A	0.9997174	4.916E-05	81373	4	0
LTX075	LTX075:18:8376593:G	Baseline	15	18	8376593	G	A	0.9996121	0.0002909	51560	15	0
LTX075	LTX075:6:105609358:A	Baseline	15	6	105609358	A	G	0.9994286	0.0004249	68258	29	1
LTX075	LTX075:1:247654898:T	Baseline	15	1	247654898	T	C	0.9994433	0.0004949	32332	16	0
LTX075	LTX075:12:116457705:C	Baseline	15	12	116457705	C	T	0.9997067	0.0002566	81829	21	0
LTX075	LTX075:17:3717712:C	Baseline	15	17	3717712	C	T	0.9996816	0.0002881	65945	19	0
LTX075	LTX075:4:146653666:G	Baseline	15	4	146653666	G	C	0.999693	0	52124	0	0
LTX075	LTX075:3:172065111:G	Baseline	15	3	172065111	G	C	0.9997332	0	67458	0	0
LTX075	LTX075:10:127843807:G	Baseline	15	10	127843807	G	A	0.9995898	0.0003705	75577	28	0
LTX075	LTX075:14:92588089:G	Baseline	15	14	92588089	G	T	0.9993864	0	4889	0	0
LTX075	LTX075:17:37571363:G	Baseline	15	17	37571363	G	C	0.9996131	1.759E-05	56862	1	0
LTX075	LTX075:14:89202773:A	Baseline	15	14	89202773	A	T	0.9998726	5.098E-05	78468	4	0
LTX075	LTX075:X:47039288:T	Baseline	15	23	47039288	T	G	0.9999428	0	34935	0	0
LTX075	LTX075:X:47040716:G	Baseline	15	23	47040716	G	T	0.9991093	0	10104	0	0
LTX135	LTX135:12:49434516:C	Baseline	15	12	49434516	C	A	0.9993236	0.0006764	7392	5	1
LTX135	LTX135:3:169099150:G	Baseline	15	3	169099150	G	A	0.9988169	0.0010207	43107	44	1
LTX135	LTX135:14:21869106:C	Baseline	15	14	21869106	C	T	0.9988882	0.0010904	46771	51	0
LTX135	LTX135:12:25398284:C	Baseline	15	12	25398284	C	A	0.9982108	0.0012326	50302	62	1
LTX135	LTX135:14:51230611:C	Baseline	15	14	51230611	C	A	0.9982742	0.0013506	39982	54	1
LTX135	LTX135:1:120465292:C	Baseline	15	1	120465292	C	A	0.9984829	0.0010737	42844	46	1
LTX135	LTX135:19:10600420:C	Baseline	15	19	10600420	C	G	0.9996498	0.0002724	25698	7	1
LTX135	LTX135:14:81610301:C	Baseline	15	14	81610301	C	A	0.9991979	0.0004813	49869	24	1
LTX135	LTX135:15:88727459:T	Baseline	15	15	88727459	T	A	0.9996898	0	35456	0	0
LTX135	LTX135:17:7578190:T	Baseline	15	17	7578190	T	C	0.9998612	0.0001388	28820	4	0
LTX135	LTX135:17:29663397:G	Baseline	15	17	29663397	G	T	0.9995246	9.507E-05	52592	5	0
LTX135	LTX135:13:46716557:C	Baseline	15	13	46716557	C	G	0.9993556	0.0003906	51207	20	1
LTX135	LTX135:17:67079444:T	Baseline	15	17	67079444	T	A	0.9997805	1.995E-05	50123	1	0
LTX135	LTX135:19:4526781:C	Baseline	15	19	4526781	C	T	0.9991569	0.0008431	7117	6	0
LTX135	LTX135:5:176637330:G	Baseline	15	5	176637330	G	A	0.9993688	0.0005882	69707	41	0
LTX135	LTX135:7:107872957:C	Baseline	15	7	107872957	C	A	0.9997624	8.641E-05	46293	4	0
LTX135	LTX135:11:128680482:C	Baseline	15	11	128680482	C	T	0.9994765	0.0005235	9551	5	0

LTX135	LTX135:17:57724830:G	Baseline	15	17	57724830	G	T	0.9997439	0	46860	0	0
LTX135	LTX135:17:20156819:G	Baseline	15	17	20156819	G	A	0.999815	0.000185	43245	8	0
LTX135	LTX135:1:32741594:C	Baseline	15	1	32741594	C	A	0.9996226	0	23847	0	0
LTX135	LTX135:17:7674212:G	Baseline	15	17	7674212	G	C	0.9996714	0	66943	0	0
LTX135	LTX135:21:31709951:G	Baseline	15	21	31709951	G	C	0.9994597	3.86E-05	51820	2	0
LTX135	LTX135:8:109260902:G	Baseline	15	8	109260902	G	C	0.9991739	0	19368	0	0
LTX135	LTX135:7:1976519:C	Baseline	15	7	1976519	C	G	0.9996822	0	28318	0	0
LTX135	LTX135:15:45007672:C	Baseline	15	15	45007672	C	G	0.999379	0.000414	28985	12	1
LTX135	LTX135:15:42040907:T	Baseline	15	15	42040907	T	A	0.9998742	0	55629	0	0
LTX135	LTX135:3:69928297:G	Baseline	15	3	69928297	G	T	0.9983681	0.0010661	45960	49	1
LTX135	LTX135:X:69262973:G	Baseline	15	23	69262973	G	C	0.9992563	0	12101	0	0
LTX149	LTX149:2:201462193:A	Baseline	15	2	201462193	A	G	0.997496	0.0024852	53114	132	1
LTX149	LTX149:6:117647416:C	Baseline	15	6	117647416	C	T	0.9967428	0.0032294	35920	116	1
LTX149	LTX149:19:3783189:C	Baseline	15	19	3783189	C	T	0.9948316	0.0051684	11996	62	1
LTX149	LTX149:8:117950562:G	Baseline	15	8	117950562	G	T	0.9959885	0.0034384	1745	6	1
LTX149	LTX149:11:17629929:C	Baseline	15	11	17629929	C	T	0.997812	0.002188	10969	24	1
LTX149	LTX149:20:62837060:G	Baseline	15	20	62837060	G	A	0.9972803	0.0027197	21326	58	1
LTX149	LTX149:11:47200023:C	Baseline	15	11	47200023	C	G	0.9936437	0.0060127	11642	70	1
LTX149	LTX149:3:52087959:T	Baseline	15	3	52087959	T	G	0.9998479	0	19720	0	0
LTX149	LTX149:3:101520185:A	Baseline	15	3	101520185	A	G	0.9995282	0.0004246	42389	18	0
LTX149	LTX149:15:40763898:G	Baseline	15	15	40763898	G	T	0.9998576	0	7022	0	0
LTX149	LTX149:10:134161560:C	Baseline	15	10	134161560	C	T	0.9994985	0.0004764	39883	19	0
LTX149	LTX149:16:3786719:G	Baseline	15	16	3786719	G	A	0.9975368	0.0024632	39380	97	1
LTX149	LTX149:1:160136469:G	Baseline	15	1	160136469	G	T	0.9954481	0.0042674	31635	135	1
LTX149	LTX149:14:70633968:G	Baseline	15	14	70633968	G	T	0.9972488	0.0025636	47979	123	1
LTX160	LTX160:12:25398284:C	Baseline	15	12	25398284	C	A	0.9939204	0.0057429	50497	290	1
LTX160	LTX160:10:102896566:T	Baseline	15	10	102896566	T	A	0.9979839	0.0018145	9920	18	1
LTX160	LTX160:2:27601137:C	Baseline	15	2	27601137	C	A	0.9994277	0	19221	0	0
LTX160	LTX160:2:141267605:C	Baseline	15	2	141267605	C	A	0.9988211	0.0003316	27144	9	1
LTX160	LTX160:15:24921526:G	Baseline	15	15	24921526	G	T	0.9994919	5.645E-05	35429	2	0
LTX160	LTX160:22:21990773:C	Baseline	15	22	21990773	C	T	0.9997016	0.0002984	26808	8	0
LTX160	LTX160:11:104034545:G	Baseline	15	11	104034545	G	T	0.9996526	7.443E-05	40304	3	0
LTX160	LTX160:1:248512475:C	Baseline	15	1	248512475	C	G	0.9987522	0.0009897	46480	46	1
LTX160	LTX160:1:2519781:G	Baseline	15	1	2519781	G	T	0.9994079	0.0001184	8445	1	1
LTX160	LTX160:4:66356134:G	Baseline	15	4	66356134	G	A	0.9984506	0.0015494	32915	51	1
LTX160	LTX160:11:64622898:T	Baseline	15	11	64622898	T	A	0.9944796	0.0045557	37316	170	1
LTX160	LTX160:7:97361937:G	Baseline	15	7	97361937	G	C	0.9993572	0.0001607	31112	5	1
LTX160	LTX160:1:2528054:G	Baseline	15	1	2528054	G	T	0.9984753	0.001394	22956	32	1

LTX160	LTX160:16:84035466:C	Baseline	15	16	84035466	C	A	0.9992868	0.0004903	22433	11	1
LTX160	LTX160:5:140744399:C	Baseline	15	5	140744399	C	T	0.9994483	0.0005075	45318	23	0
LTX160	LTX160:1:26882044:C	Baseline	15	1	26882044	C	G	0.9978324	0.0020592	9227	19	1
LTX160	LTX160:1:62737162:C	Baseline	15	1	62737162	C	A	0.9995093	7.434E-05	67256	5	0
LTX160	LTX160:2:25047252:C	Baseline	15	2	25047252	C	G	0.9996696	0	51449	0	0
LTX160	LTX160:6:70871828:G	Baseline	15	6	70871828	G	T	0.9989768	0.0008405	54729	46	1
LTX160	LTX160:19:47491255:C	Baseline	15	19	47491255	C	T	0.9993478	0.0005398	44463	24	0
LTX160	LTX160:12:29464049:T	Baseline	15	12	29464049	T	C	0.9997883	0.000127	47246	6	0
LTX160	LTX160:18:61602264:G	Baseline	15	18	61602264	G	C	0.9996199	0	36837	0	0
LTX160	LTX160:10:43292571:C	Baseline	15	10	43292571	C	A	0.9996563	4.125E-05	72729	3	0
LTX160	LTX160:11:66190163:G	Baseline	15	11	66190163	G	A	0.9995043	0.0004337	16139	7	0
LTX160	LTX160:20:2375907:G	Baseline	15	20	2375907	G	T	0.9995648	0	32171	0	0
LTX160	LTX160:19:11138504:G	Baseline	15	19	11138504	G	T	0.9996908	2.577E-05	38806	1	0
LTX160	LTX160:10:46999601:G	Baseline	15	10	46999601	G	A	NaN	NaN	0		0
LTX038_109307	LTX038:14:51196324:G	Longitudinal	15	14	51196324	G	A	0.8889159	0.1110398	45200	5019	1
LTX038_109307	LTX038:1:158576657:G	Longitudinal	15	1	158576657	G	T	0.8583793	0.1413588	103064	14569	1
LTX038_109307	LTX038:3:64132613:C	Longitudinal	15	3	64132613	C	A	0.8955756	0.104263	55782	5816	1
LTX038_109307	LTX038:16:4836063:G	Longitudinal	15	16	4836063	G	C	0.999426	4.592E-05	43551	2	0
LTX038_109307	LTX038:2:178098810:C	Longitudinal	15	2	178098810	C	G	0.9164158	0.0833146	66771	5563	1
LTX038_109307	LTX038:9:134010388:A	Longitudinal	15	9	134010388	A	T	0.9114648	0.0883258	62077	5483	1
LTX038_109307	LTX038:11:69456203:C	Longitudinal	15	11	69456203	C	G	0.9277834	0.0717992	33538	2408	1
LTX038_109307	LTX038:3:37061826:G	Longitudinal	15	3	37061826	G	A	0.9996043	0.0003613	58122	21	0
LTX038_109307	LTX038:4:55980381:G	Longitudinal	15	4	55980381	G	A	0.9996681	0.0002733	51222	14	0
LTX038_109307	LTX038:1:198700816:G	Longitudinal	15	1	198700816	G	C	0.9998131	0	53516	0	0
LTX038_109307	LTX038:5:169020496:A	Longitudinal	15	5	169020496	A	C	0.9997336	0	56312	0	0
LTX038_109307	LTX038:6:17772153:G	Longitudinal	15	6	17772153	G	C	0.9995682	0	69473	0	0
LTX038_109307	LTX038:12:464400:C	Longitudinal	15	12	464400	C	T	0.9996179	0.0003609	47107	17	0
LTX038_109307	LTX038:15:71276480:G	Longitudinal	15	15	71276480	G	T	0.9996269	3.927E-05	101861	4	0
LTX038_109307	LTX038:1:65332716:C	Longitudinal	15	1	65332716	C	A	0.8783614	0.1214319	53215	6462	1
LTX038_109307	LTX038:1:27106535:G	Longitudinal	15	1	27106535	G	A	0.9997118	0.0002162	69386	15	0
LTX038_109307	LTX038:9:139413985:C	Longitudinal	15	9	139413985	C	T	0.9997335	0.0002369	33766	8	0
LTX038_109307	LTX038:X:76939312:G	Longitudinal	15	23	76939312	G	A	0.9995891	0.0004109	19468	8	0
LTX038_109307	LTX038:X:88008704:C	Longitudinal	15	23	88008704	C	A	0.8245423	0.1752574	34960	6127	1
LTX038_109081	LTX038:14:51196324:G	Longitudinal	15	14	51196324	G	A	0.8312971	0.1686822	48209	8132	1
LTX038_109081	LTX038:1:158576657:G	Longitudinal	15	1	158576657	G	T	0.7979461	0.2017191	107501	21685	1
LTX038_109081	LTX038:3:64132613:C	Longitudinal	15	3	64132613	C	A	0.8298311	0.169931	63055	10715	1
LTX038_109081	LTX038:16:4836063:G	Longitudinal	15	16	4836063	G	C	0.9996108	1.946E-05	51391	1	0
LTX038_109081	LTX038:2:178098810:C	Longitudinal	15	2	178098810	C	G	0.8775813	0.1221496	78060	9535	1

LTX038_109081	LTX038:9:134010388:A	Longitudinal	15	9	134010388	A	T	0.8680409	0.1317186	70681	9310		1
LTX038_109081	LTX038:11:69456203:C	Longitudinal	15	11	69456203	C	G	0.9082958	0.0910989	33041	3010		1
LTX038_109081	LTX038:3:37061826:G	Longitudinal	15	3	37061826	G	A	0.9996964	0.000258	65881	17		0
LTX038_109081	LTX038:4:55980381:G	Longitudinal	15	4	55980381	G	A	0.9997857	0.0001964	56000	11		0
LTX038_109081	LTX038:1:198700816:G	Longitudinal	15	1	198700816	G	C	0.9998249	0	57122	0		0
LTX038_109081	LTX038:5:169020496:A	Longitudinal	15	5	169020496	A	C	0.9998103	0	68541	0		0
LTX038_109081	LTX038:6:17772153:G	Longitudinal	15	6	17772153	G	C	0.9997534	1.233E-05	81099	1		0
LTX038_109081	LTX038:12:464400:C	Longitudinal	15	12	464400	C	T	0.9997788	0.0001738	63300	11		0
LTX038_109081	LTX038:15:71276480:G	Longitudinal	15	15	71276480	G	T	0.9995549	5.341E-05	112342	6		0
LTX038_109081	LTX038:1:65332716:C	Longitudinal	15	1	65332716	C	A	0.8389938	0.1608498	63923	10282		1
LTX038_109081	LTX038:1:27106535:G	Longitudinal	15	1	27106535	G	A	0.9996173	0.0003827	67933	26		0
LTX038_109081	LTX038:9:139413985:C	Longitudinal	15	9	139413985	C	T	0.9984247	0.0015753	34914	55		1
LTX038_109081	LTX038:X:76939312:G	Longitudinal	15	23	76939312	G	A	0.9996831	0.0003169	18934	6		0
LTX038_109081	LTX038:X:88008704:C	Longitudinal	15	23	88008704	C	A	0.7414898	0.2584101	39952	10324		1
LTX038_109054	LTX038:14:51196324:G	Longitudinal	15	14	51196324	G	A	0.9063424	0.0936192	52094	4877		1
LTX038_109054	LTX038:1:158576657:G	Longitudinal	15	1	158576657	G	T	0.8729951	0.1265758	93209	11798		1
LTX038_109054	LTX038:3:64132613:C	Longitudinal	15	3	64132613	C	A	0.9057164	0.0940827	64709	6088		1
LTX038_109054	LTX038:16:4836063:G	Longitudinal	15	16	4836063	G	C	0.9996647	0	44737	0		0
LTX038_109054	LTX038:2:178098810:C	Longitudinal	15	2	178098810	C	G	0.9220783	0.0775878	71867	5576		1
LTX038_109054	LTX038:9:134010388:A	Longitudinal	15	9	134010388	A	T	0.9188512	0.0809655	65460	5300		1
LTX038_109054	LTX038:11:69456203:C	Longitudinal	15	11	69456203	C	G	0.9411096	0.0582589	31669	1845		1
LTX038_109054	LTX038:3:37061826:G	Longitudinal	15	3	37061826	G	A	0.9995088	0.0004466	67181	30		0
LTX038_109054	LTX038:4:55980381:G	Longitudinal	15	4	55980381	G	A	0.9996989	0.0003011	63095	19		0
LTX038_109054	LTX038:1:198700816:G	Longitudinal	15	1	198700816	G	C	0.9996782	0	59044	0		0
LTX038_109054	LTX038:5:169020496:A	Longitudinal	15	5	169020496	A	C	0.9997361	0	72007	0		0
LTX038_109054	LTX038:6:17772153:G	Longitudinal	15	6	17772153	G	C	0.9997588	1.206E-05	82930	1		0
LTX038_109054	LTX038:12:464400:C	Longitudinal	15	12	464400	C	T	0.9997019	0.0002087	67081	14		0
LTX038_109054	LTX038:15:71276480:G	Longitudinal	15	15	71276480	G	T	0.9994322	0.0001024	107436	11		0
LTX038_109054	LTX038:1:65332716:C	Longitudinal	15	1	65332716	C	A	0.9048998	0.0948414	61819	5863		1
LTX038_109054	LTX038:1:27106535:G	Longitudinal	15	1	27106535	G	A	0.9995575	0.0003769	61023	23		0
LTX038_109054	LTX038:9:139413985:C	Longitudinal	15	9	139413985	C	T	0.9990108	0.0008616	31337	27		0
LTX038_109054	LTX038:X:76939312:G	Longitudinal	15	23	76939312	G	A	0.99947	0.0004858	22642	11		0
LTX038_109054	LTX038:X:88008704:C	Longitudinal	15	23	88008704	C	A	0.8430855	0.1566214	37530	5878		1
LTX075_107522	LTX075:7:55259515:T	Longitudinal	15	7	55259515	T	G	0.9997386	0	42084	0		0
LTX075_107522	LTX075:17:7578403:C	Longitudinal	15	17	7578403	C	A	0.9992819	0	13926	0		0
LTX075_107522	LTX075:12:49949724:C	Longitudinal	15	12	49949724	C	G	0.9996831	0	22087	0		0
LTX075_107522	LTX075:14:81609622:C	Longitudinal	15	14	81609622	C	T	0.9991443	0.0007627	53759	41		0
LTX075_107522	LTX075:1:114641780:A	Longitudinal	15	1	114641780	A	T	0.9996342	3.325E-05	60145	2		0

LTX075_107522	LTX075:20:31676821:G	Longitudinal	15	20	31676821	G	A	0.9996869	0.0002684	44710	12	0	
LTX075_107522	LTX075:17:47010696:G	Longitudinal	15	17	47010696	G	C	0.9993922	0	37842	0	0	
LTX075_107522	LTX075:3:97454862:G	Longitudinal	15	3	97454862	G	C	0.9995918	0	61249	0	0	
LTX075_107522	LTX075:2:118709950:T	Longitudinal	15	2	118709950	T	A	0.9994567	2.012E-05	49692	1	0	
LTX075_107522	LTX075:20:2840714:C	Longitudinal	15	20	2840714	C	T	0.9995005	0.0004044	42039	17	0	
LTX075_107522	LTX075:17:73775131:T	Longitudinal	15	17	73775131	T	C	1	0	6344	0	0	
LTX075_107522	LTX075:22:25597408:G	Longitudinal	15	22	25597408	G	C	0.9996353	5.209E-05	38392	2	0	
LTX075_107522	LTX075:8:95503994:G	Longitudinal	15	8	95503994	G	C	0.9997222	3.087E-05	64797	2	0	
LTX075_107522	LTX075:2:223787502:C	Longitudinal	15	2	223787502	C	A	0.9995474	2.829E-05	70702	2	0	
LTX075_107522	LTX075:18:8376593:G	Longitudinal	15	18	8376593	G	A	0.9997464	0.0002075	43369	9	0	
LTX075_107522	LTX075:6:105609358:A	Longitudinal	15	6	105609358	A	G	0.9998989	6.743E-05	59323	4	0	
LTX075_107522	LTX075:1:247654898:T	Longitudinal	15	1	247654898	T	C	0.9995028	0.0004351	32177	14	0	
LTX075_107522	LTX075:12:116457705:C	Longitudinal	15	12	116457705	C	T	0.9995909	0.0003385	70895	24	0	
LTX075_107522	LTX075:17:3717712:C	Longitudinal	15	17	3717712	C	T	0.9996227	0.0003281	60962	20	0	
LTX075_107522	LTX075:4:146653666:G	Longitudinal	15	4	146653666	G	C	0.9996003	0	40027	0	0	
LTX075_107522	LTX075:3:172065111:G	Longitudinal	15	3	172065111	G	C	0.9997192	0	60536	0	0	
LTX075_107522	LTX075:10:127843807:G	Longitudinal	15	10	127843807	G	A	0.9996757	0.0003243	64762	21	0	
LTX075_107522	LTX075:14:92588089:G	Longitudinal	15	14	92588089	G	T	1	0	2884	0	0	
LTX075_107522	LTX075:17:37571363:G	Longitudinal	15	17	37571363	G	C	0.999662	0	50298	0	0	
LTX075_107522	LTX075:14:89202773:A	Longitudinal	15	14	89202773	A	T	0.9998379	2.947E-05	67874	2	0	
LTX075_107522	LTX075:X:47039288:T	Longitudinal	15	23	47039288	T	G	0.9998822	0	33956	0	0	
LTX075_107522	LTX075:X:47040716:G	Longitudinal	15	23	47040716	G	T	0.9993661	0	11042	0	0	
LTX075_107478	LTX075:7:55259515:T	Longitudinal	15	7	55259515	T	G	0.9990771	0.0007349	58513	43	1	
LTX075_107478	LTX075:17:7578403:C	Longitudinal	15	17	7578403	C	A	0.9996868	5.221E-05	19155	1	0	
LTX075_107478	LTX075:12:49949724:C	Longitudinal	15	12	49949724	C	G	0.9998566	2.868E-05	34863	1	0	
LTX075_107478	LTX075:14:81609622:C	Longitudinal	15	14	81609622	C	T	0.9994474	0.0005052	63336	32	0	
LTX075_107478	LTX075:1:114641780:A	Longitudinal	15	1	114641780	A	T	0.9995929	5.615E-05	71236	4	0	
LTX075_107478	LTX075:20:31676821:G	Longitudinal	15	20	31676821	G	A	0.999701	0.0002658	60198	16	0	
LTX075_107478	LTX075:17:47010696:G	Longitudinal	15	17	47010696	G	C	0.9997869	0	46932	0	0	
LTX075_107478	LTX075:3:97454862:G	Longitudinal	15	3	97454862	G	C	0.9997882	0	66094	0	0	
LTX075_107478	LTX075:2:118709950:T	Longitudinal	15	2	118709950	T	A	0.9994997	6.67E-05	59970	4	0	
LTX075_107478	LTX075:20:2840714:C	Longitudinal	15	20	2840714	C	T	0.9996594	0.0003066	58715	18	0	
LTX075_107478	LTX075:17:73775131:T	Longitudinal	15	17	73775131	T	C	1	0	9150	0	0	
LTX075_107478	LTX075:22:25597408:G	Longitudinal	15	22	25597408	G	C	0.999742	1.843E-05	54255	1	0	
LTX075_107478	LTX075:8:95503994:G	Longitudinal	15	8	95503994	G	C	0.9993557	5.155E-05	77599	4	0	
LTX075_107478	LTX075:2:223787502:C	Longitudinal	15	2	223787502	C	A	0.9996694	4.898E-05	81665	4	0	
LTX075_107478	LTX075:18:8376593:G	Longitudinal	15	18	8376593	G	A	0.9997305	0.0002189	59377	13	0	
LTX075_107478	LTX075:6:105609358:A	Longitudinal	15	6	105609358	A	G	0.9998507	8.957E-05	66983	6	0	

LTX075_107478	LTX075:1:247654898:T	Longitudinal	15	1	247654898	T	C	0.9996089	0.0003422	40907	14	0
LTX075_107478	LTX075:12:116457705:C	Longitudinal	15	12	116457705	C	T	0.9996607	0.0002925	85459	25	0
LTX075_107478	LTX075:17:3717712:C	Longitudinal	15	17	3717712	C	T	0.9995794	0.0003925	71332	28	0
LTX075_107478	LTX075:4:146653666:G	Longitudinal	15	4	146653666	G	C	0.9996003	1.999E-05	50033	1	0
LTX075_107478	LTX075:3:172065111:G	Longitudinal	15	3	172065111	G	C	0.9995817	4.327E-05	69336	3	0
LTX075_107478	LTX075:10:127843807:G	Longitudinal	15	10	127843807	G	A	0.9996438	0.0002948	81405	24	0
LTX075_107478	LTX075:14:92588089:G	Longitudinal	15	14	92588089	G	T	0.9996063	0	5080	0	0
LTX075_107478	LTX075:17:37571363:G	Longitudinal	15	17	37571363	G	C	0.9997365	3.513E-05	56928	2	0
LTX075_107478	LTX075:14:89202773:A	Longitudinal	15	14	89202773	A	T	0.9998575	1.295E-05	77193	1	0
LTX075_107478	LTX075:X:47039288:T	Longitudinal	15	23	47039288	T	G	0.9998494	0	46489	0	0
LTX075_107478	LTX075:X:47040716:G	Longitudinal	15	23	47040716	G	T	0.9997942	0	14578	0	0
LTX075_116090	LTX075:7:55259515:T	Longitudinal	15	7	55259515	T	G	0.9996764	8.516E-05	58716	5	0
LTX075_116090	LTX075:17:7578403:C	Longitudinal	15	17	7578403	C	A	0.9992315	5.123E-05	19518	1	0
LTX075_116090	LTX075:12:49949724:C	Longitudinal	15	12	49949724	C	G	0.9998515	0	33666	0	0
LTX075_116090	LTX075:14:81609622:C	Longitudinal	15	14	81609622	C	T	0.9989307	0.0010693	67331	72	0
LTX075_116090	LTX075:1:114641780:A	Longitudinal	15	1	114641780	A	T	0.9996336	2.714E-05	73680	2	0
LTX075_116090	LTX075:20:31676821:G	Longitudinal	15	20	31676821	G	A	0.9993336	0.0006505	63027	41	0
LTX075_116090	LTX075:17:47010696:G	Longitudinal	15	17	47010696	G	C	0.9992329	0	49534	0	0
LTX075_116090	LTX075:3:97454862:G	Longitudinal	15	3	97454862	G	C	0.9996165	0	78235	0	0
LTX075_116090	LTX075:2:118709950:T	Longitudinal	15	2	118709950	T	A	0.9996393	9.409E-05	63769	6	0
LTX075_116090	LTX075:20:2840714:C	Longitudinal	15	20	2840714	C	T	0.9994836	0.0004274	56153	24	0
LTX075_116090	LTX075:17:73775131:T	Longitudinal	15	17	73775131	T	C	0.9997857	0.0001071	9334	1	0
LTX075_116090	LTX075:22:25597408:G	Longitudinal	15	22	25597408	G	C	0.9997323	1.785E-05	56028	1	0
LTX075_116090	LTX075:8:95503994:G	Longitudinal	15	8	95503994	G	C	0.9996649	1.241E-05	80573	1	0
LTX075_116090	LTX075:2:223787502:C	Longitudinal	15	2	223787502	C	A	0.9997323	1.275E-05	78460	1	0
LTX075_116090	LTX075:18:8376593:G	Longitudinal	15	18	8376593	G	A	0.9997441	0.0002559	58608	15	0
LTX075_116090	LTX075:6:105609358:A	Longitudinal	15	6	105609358	A	G	0.9997623	0.0001189	75716	9	0
LTX075_116090	LTX075:1:247654898:T	Longitudinal	15	1	247654898	T	C	0.9995077	0.0004475	44691	20	0
LTX075_116090	LTX075:12:116457705:C	Longitudinal	15	12	116457705	C	T	0.9995457	0.0004427	85845	38	0
LTX075_116090	LTX075:17:3717712:C	Longitudinal	15	17	3717712	C	T	0.9994083	0.0005794	81119	47	0
LTX075_116090	LTX075:4:146653666:G	Longitudinal	15	4	146653666	G	C	0.9996413	0	52970	0	0
LTX075_116090	LTX075:3:172065111:G	Longitudinal	15	3	172065111	G	C	0.9997644	1.309E-05	76396	1	0
LTX075_116090	LTX075:10:127843807:G	Longitudinal	15	10	127843807	G	A	0.9995514	0.0003759	82475	31	0
LTX075_116090	LTX075:14:92588089:G	Longitudinal	15	14	92588089	G	T	0.9989706	0	4857	0	0
LTX075_116090	LTX075:17:37571363:G	Longitudinal	15	17	37571363	G	C	0.9996854	4.72E-05	63566	3	0
LTX075_116090	LTX075:14:89202773:A	Longitudinal	15	14	89202773	A	T	0.9998295	4.871E-05	82125	4	0
LTX075_116090	LTX075:X:47039288:T	Longitudinal	15	23	47039288	T	G	0.9997628	0	50585	0	0
LTX075_116090	LTX075:X:47040716:G	Longitudinal	15	23	47040716	G	T	0.9996744	6.511E-05	15358	1	0

LTX075_115831	LTX075:7:55259515:T	Longitudinal	15	7	55259515	T	G	0.9991087	0.0004914	87510	43	1
LTX075_115831	LTX075:17:7578403:C	Longitudinal	15	17	7578403	C	A	0.9995122	0	24599	0	0
LTX075_115831	LTX075:12:49949724:C	Longitudinal	15	12	49949724	C	G	0.9995964	0	42121	0	0
LTX075_115831	LTX075:14:81609622:C	Longitudinal	15	14	81609622	C	T	0.9992948	0.0006488	106348	69	0
LTX075_115831	LTX075:1:114641780:A	Longitudinal	15	1	114641780	A	T	0.9995373	3.629E-05	110228	4	0
LTX075_115831	LTX075:20:31676821:G	Longitudinal	15	20	31676821	G	A	0.9993571	0.0005978	88663	53	0
LTX075_115831	LTX075:17:47010696:G	Longitudinal	15	17	47010696	G	C	0.9996836	2.531E-05	79026	2	0
LTX075_115831	LTX075:3:97454862:G	Longitudinal	15	3	97454862	G	C	0.9997091	0	113437	0	0
LTX075_115831	LTX075:2:118709950:T	Longitudinal	15	2	118709950	T	A	0.9992797	4.502E-05	88856	4	0
LTX075_115831	LTX075:20:2840714:C	Longitudinal	15	20	2840714	C	T	0.999725	0.0002152	83646	18	0
LTX075_115831	LTX075:17:73775131:T	Longitudinal	15	17	73775131	T	C	0.9997101	0.0002899	10347	3	0
LTX075_115831	LTX075:22:25597408:G	Longitudinal	15	22	25597408	G	C	0.9997849	1.434E-05	69749	1	0
LTX075_115831	LTX075:8:95503994:G	Longitudinal	15	8	95503994	G	C	0.9993609	0.0003448	118926	41	1
LTX075_115831	LTX075:2:223787502:C	Longitudinal	15	2	223787502	C	A	0.9996758	3.163E-05	126473	4	0
LTX075_115831	LTX075:18:8376593:G	Longitudinal	15	18	8376593	G	A	0.9997979	0.0001664	84128	14	0
LTX075_115831	LTX075:6:105609358:A	Longitudinal	15	6	105609358	A	G	0.9996297	0.0002468	113436	28	0
LTX075_115831	LTX075:1:247654898:T	Longitudinal	15	1	247654898	T	C	0.9991553	0.000796	61558	49	0
LTX075_115831	LTX075:12:116457705:C	Longitudinal	15	12	116457705	C	T	0.9994685	0.0005011	131704	66	0
LTX075_115831	LTX075:17:3717712:C	Longitudinal	15	17	3717712	C	T	0.9996517	0.00033	109100	36	0
LTX075_115831	LTX075:4:146653666:G	Longitudinal	15	4	146653666	G	C	0.9996102	0	79526	0	0
LTX075_115831	LTX075:3:172065111:G	Longitudinal	15	3	172065111	G	C	0.9995708	1.826E-05	109511	2	0
LTX075_115831	LTX075:10:127843807:G	Longitudinal	15	10	127843807	G	A	0.9996546	0.0003133	124485	39	0
LTX075_115831	LTX075:14:92588089:G	Longitudinal	15	14	92588089	G	T	0.9997088	0	6867	0	0
LTX075_115831	LTX075:17:37571363:G	Longitudinal	15	17	37571363	G	C	0.9997132	2.124E-05	94142	2	0
LTX075_115831	LTX075:14:89202773:A	Longitudinal	15	14	89202773	A	T	0.9998813	1.696E-05	117931	2	0
LTX075_115831	LTX075:X:47039288:T	Longitudinal	15	23	47039288	T	G	0.9999064	1.56E-05	64119	1	0
LTX075_115831	LTX075:X:47040716:G	Longitudinal	15	23	47040716	G	T	0.9994603	0	18530	0	0

Table 5

Sample	Positive	Negative	Detection_ratio	pTNMStage	Lesion1SizePath	Lesion1SizeDer	BA total ng/40ul	Site	Pathological type	LN status	Vasc inv?	Lobe of lung
LTX001	2	15	12%	1b	40.2	26	289.5	U	Adenocarcinoma	0	No	RUL
LTX013	2	13	13%	1b	NA	53	12.7	M	Adenocarcinoma	0	No	LLL
LTX015	17	2	89%	1b	NA	32	76.5	M	Squamous cell carcinoma	0	No	RLL
LTX021	0	19	0%	3a	43	40	73.9	A	Adenocarcinoma	2	Yes	RLL
LTX022	17	3	85%	2a	60	24	41.4	U	Squamous cell carcinoma	0	No	LUL
LTX025	15	4	79%	1a	NA	29	57.2	M	Squamous cell carcinoma	0	yes	RUL
LTX028	13	6	68%	2a	NA	55	94	M	Squamous cell carcinoma	0	No	RLL
LTX032	12	5	71%	1b	NA	44	78	M	Squamous cell carcinoma	0	No	LUL
LTX033	13	5	72%	1b	NA	35	50.1	B	Squamous cell carcinoma	0	Yes	RLL
LTX034	0	18	0%	1a	NA	30	73.8	B	Adenocarcinoma	0	No	RLL
LTX036	1	18	5%	1b	52	25	27.4	U	Adenocarcinoma	0	No	RUL
LTX038	16	3	84%	2b	NA	67	124.6	B	Squamous cell carcinoma	0	Yes	LUL
LTX041	1	18	5%	1b	45	43	32.8	L	Adenocarcinoma	0	No	LUL
LTX046	0	18	0%	2b	NA	47	29.7	B	Adenocarcinoma	0	No	LUL
LTX048	1	16	6%	1b	NA	42	29	B	Adenocarcinoma	0	No	RUL
LTX049	1	17	6%	1b	22	20	18	A	Adenocarcinoma	0	yes	RML
LTX055	0	21	0%	1b	48	40	16.6	A	Adenocarcinoma	0	Yes	LUL
LTX058	8	10	44%	1b	44	40	26.1	U	Squamous cell carcinoma	0	no	RUL
LTX059	9	9	50%	1b	NA	41	33.7	B	Squamous cell carcinoma	0	YES	RML
LTX062	0	18	0%	1a	24	24	29.5	L	Adenocarcinoma	0	Yes	RUL
LTX063	15	5	75%	2a	NA	49	82.5	M	Squamous cell carcinoma	1	YES	RLL
LTX065	0	15	0%	1a	NA	20	11.8	B	Adenosquamous	0	No	LLL
LTX073	0	22	0%	1b	NA	19	18.1	M	Adenocarcinoma	0	No	LUL
LTX074	7	12	37%	1b	NA	38	101.5	M	Adenocarcinoma	0	No	RLL
LTX075	1	18	5%	1a	NA	16	15.6	B	Adenocarcinoma	?	No	LUL

LTX076	19	1	95%	2a	60	50	33	U	Squamous cell carcinoma	0	Yes	RUL
LTX084	0	14	0%	2a	22	25	75.5	B	Adenocarcinoma	1	No	RLL
LTX085	3	12	20%	1b	NA	42	10.9	M	Squamous cell carcinoma	0	No	RUL
LTX091	0	18	0%	1a	25	15	26.5	U	Adenocarcinoma	0	No	RLL
LTX092	18	3	86%	1b	40	40	12.2	U	Adenocarcinoma	0	No	RUL
LTX093	14	2	88%	1b	NA	32	34.8	M	Squamous cell carcinoma	0	No	RLL
LTX097	14	4	78%	3a	70	70	36.3	U	Adenocarcinoma	2	No	RUL
LTX102	0	20	0%	2b	71	56	19.2	A	Adenocarcinoma	0	No	LLL
LTX103	1	12	8%	3a	28	20	18.5	U	Adenocarcinoma	1	No	RLL
LTX107	13	6	68%	2a	45	45	29.3	U	Squamous cell carcinoma	1	Yes	RML
LTX111	5	12	29%	1a	10	10	20	U	Squamous cell carcinoma	0	No	RUL
LTX115	0	19	0%	1a	14	14	48.2	L	Adenocarcinoma	?	No	LUL
LTX120	17	1	94%	1a	10	10	65	R	Squamous cell carcinoma	0	No	RUL
LTX126	6	13	32%	1b	50	50	269.9	U	Carcinosarcoma	0	No	RUL
LTX135	4	13	24%	3a	NA	37	8.5	B	Adenocarcinoma	2	Yes	RUL
LTX144	0	19	0%	1b	35	25	3.4	U	Adenocarcinoma	0	No	LLL
LTX149	12	5	71%	1b	NA	32	155.6	M	Squamous cell carcinoma	0	No	LUL
LTX160	3	14	18%	1b	40	39	10	B	Adenocarcinoma	?	No	RLL
LTX163	0	19	0%	2a	26	25	12.9	B	Adenocarcinoma	1	No	RUL
LTX165	11	8	58%	2b	39	40	20	B	Squamous cell carcinoma	1	Yes	LUL
LTX175	9	12	43%	2b	65	54	16.3	M	Adenocarcinoma	1	No	LLL
LTX180	0	17	0%	1a	20	16	20.6	U	Adenocarcinoma	0	No	LUL
LTX185	0	18	0%	1a	18	15	39.8	U	Adenocarcinoma	0	Yes	LUL
LTX210	10	8	56%	3a	35	32	17	A	Adenocarcinoma	2	Yes	LUL

Table 6

Sample	chrom	loci	mut	ref	Plasma VAF	DOR	MutDOR	R1_VAF	R2_VAF	R3_VAF	R4_VAF	R5_VAF	R6_VAF	R7_VAF
LTX032	6	161530837	G	T	0.286%	63656	182	24.87	11.25	14.29	45.26			
LTX063	1	27102067	G	T	0.156%	52495	82	NA	5.44	18.12	20.76	19.18	16.29	
LTX063	10	108378017	A	T	0.143%	56002	80	NA	5.27	18.12	19.93	16.05	13.47	
LTX092	2	216252943	T	G	0.478%	42289	202	0.40	3.17	14.87				
LTX107	3	156272874	G	A	5.116%	3968	203	91.61	87.35	46.49	83.24	NA	83.93	60.17
LTX149	14	70633967	T	G	0.211%	50808	107	41.77	43.26	42.26	43.98			
LTX149	1	160136470	G	T	0.538%	31966	172	59.35	60.59	59.89	61.30			

Table 7

	Detected in Tumour				Selected Assays			
SampleName	**SNVs**	**Driver SNVs**	**Clonal SNVs**	**Branches**	**SNVs**	**Driver SNVs**	**Clonal SNVs**	**Branches**
LTX001	469	10	344	8	17	5	6	5
LTX012	633	12	629	2	19	9	19	1
LTX013	87	4	78	3	12	1	9	3
LTX015	577	14	454	8	17	6	8	6
LTX019	194	9	58	8	19	7	10	6
LTX021	724	7	219	11	15	3	2	6
LTX022	341	15	303	3	20	9	14	3
LTX025	681	12	632	7	18	6	11	4
LTX028	294	8	218	11	17	5	9	5
LTX029	39	2	27	5	20	1	11	4
LTX031	303	5	303	1	19	4	19	1
LTX032	240	6	164	8	16	4	9	4
LTX033	336	5	301	8	17	2	7	6
LTX034	64	4	47	4	16	4	5	4
LTX036	432	8	305	12	17	6	7	7
LTX038	578	23	217	19	16	11	5	9
LTX041	309	7	263	6	13	7	11	3
LTX043	31	2	28	2	18	1	15	2
LTX046	113	6	35	7	15	3	4	5
LTX048	431	5	398	3	15	3	6	3
LTX049	570	12	520	4	14	7	10	4
LTX050	165	7	41	10	19	3	4	8
LTX051	67	5	53	3	18	4	14	2
LTX055	554	8	481	6	19	6	8	5
LTX058	437	10	290	17	16	6	8	5
LTX059	176	2	130	7	16	2	7	5

LTX060	943	17	679	11	20	14	10	7
LTX062	309	8	174	8	17	2	4	6
LTX063	159	8	123	4	18	8	9	3
LTX064	458	12	48	21	19	10	3	14
LTX065	130	5	127	2	15	3	14	2
LTX068	281	5	213	8	20	4	14	6
LTX070	1082	16	852	14	20	13	14	6
LTX073	619	14	350	11	18	11	10	6
LTX074	439	14	264	11	18	7	7	6
LTX075	88	6	63	4	17	2	9	3
LTX076	274	5	224	6	17	4	6	6
LTX082	888	9	888	1	17	5	17	1
LTX083	1519	23	1047	4	20	16	16	4
LTX084	491	3	351	5	13	2	13	1
LTX091	183	7	73	4	18	4	8	4
LTX092	453	11	349	10	15	7	10	5
LTX093	236	1	180	8	15	0	5	6
LTX097	184	6	142	7	17	5	9	6
LTX100	138	0	138	1	19	0	19	1
LTX102	198	9	116	9	18	6	9	5
LTX103	69	3	61	5	9	2	9	1
LTX107	182	4	114	9	16	3	5	5
LTX108	211	1	182	3	20	0	18	3
LTX109	86	1	81	3	18	0	17	2
LTX110	493	11	493	1	20	8	20	1
LTX111	201	5	120	6	14	2	5	6
LTX113	276	5	260	6	19	3	17	3
LTX115	131	7	113	4	15	6	12	3
LTX118	39	1	36	3	19	1	18	2

LTX120	288	6	279	3	17	2	17	1
LTX121	238	9	186	4	19	4	17	3
LTX124	45	3	40	2	18	3	18	1
LTX125	57	1	47	3	20	0	17	2
LTX126	201	5	174	8	16	2	6	4
LTX135	668	24	609	5	15	11	11	4
LTX136	426	11	392	7	21	9	19	3
LTX137	31	1	31	1	12	0	12	1
LTX142	69	4	69	1	19	3	19	1
LTX143	78	2	44	5	21	2	15	5
LTX144	124	6	30	9	18	5	3	8
LTX145	103	2	93	5	20	2	15	5
LTX149	192	3	172	6	14	2	10	2
LTX156	117	5	97	3	19	3	14	3
LTX160	112	5	92	6	17	3	10	5
LTX162	57	1	33	6	18	1	8	6
LTX163	897	17	102	11	18	12	3	8
LTX164	145	6	117	3	18	4	16	3
LTX165	539	7	456	8	18	5	8	6
LTX166	159	6	159	1	18	4	18	1
LTX170	29	4	27	3	14	3	12	3
LTX175	262	11	108	11	21	7	8	7
LTX180	441	6	408	10	12	3	8	3
LTX183	238	5	167	7	22	4	16	6
LTX185	727	12	283	4	15	6	8	4
LTX193	38	1	17	3	18	1	11	3
LTX196	458	12	262	5	19	8	9	4
LTX201	238	4	221	5	21	3	18	4
LTX203	275	4	275	1	19	3	19	1

LTX206	211		0		188		5	13		6		11		2
LTX210	104		2		49		8	15		2		4		6
LTX216	54		2		28		4	18		1		8		4
LTX221	277		7		173		8	19		2		14		4
LTX223	268		6		217		12	20		5		16		5
LTX225	29		2		17		3	17		1		9		3
LTX227	43		3		25		5	20		3		9		5
LTX232	240		5		221		4	19		3		18		2
LTX240	267		10		258		3	19		7		18		2
LTX242	166		4		114		5	18		2		13		4
LTX249	187		3		159		5	21		3		18		4
LTX250	516		11		374		3	19		8		12		3
LTX251	122		4		84		3	18		4		13		3
LTX252	744		14		744		1	19		9		19		1

Table 8

Binomial Regression Predicting Likelihood of Early-Stage NSCLC Detection

	Univariate Analysis				Multivariate Analysis			
			95% C.I.for Odds Ratio				95% C.I.for Odds Ratio	
	Sig.	Odds Ratio	Lower	Upper	Sig.	Odds Ratio	Lower	Upper
Adenocarcinoma	**<0.001**	*Predictor compared with below*			**<0.001**	*Predictor compared with below*		
Squamous cell Carcinoma	**<0.001**	144.0	17.5	1182.6	**<0.001**	127.0	19.4	1813.2
Other histology	**0.006**	12.0	2.0	70.9	**0.012**	12.5	1.7	92.9
Volume (cm3)	0.083	1.0	1.0	1.0	0.812	1.0	1.0	1.0
Lymph node involvement	**0.009**	3.8	1.4	10.4	**0.008**	7.7	1.7	34.8
Total number of clonal mutations in assay pool	0.745	1.0	0.9	1.1	0.548	1.0	0.9	1.2
Total cfDNA quantity extracted (ng)	**0.021**	1.0	1.0	1.0	0.208	1.0	1.0	1.0

Table 9

Binomial Regression LUAD subgroup analysis

	Univariate Analysis				Multivariate Analysis			
			95% C.I for Odds Ratio				95% C.I for Odds Ratio	
	Sig.	Odds Ratio	Lower	Upper	Sig.	Odds Ratio	Lower	Upper
PET TBR	***0.025***	1.2	1.0	1.3	***0.036***	1.1	1.0	1.3
Necrosis (%)	***0.013***	1.1	1.0	1.1	***0.021***	1.1	1.0	1.2
Lymph node involvement	***0.019***	5.9	1.3	26.6	0.031	6.3	0.8	49.1
Volume (cm3)	0.957	1.0	1.0	1.0	0.976	1.0	1.0	1.0
cfDNA input quantity (ng)	0.336	1.0	1.0	1.0	0.457	1.0	1.0	1.0
Total clonal mutations in assay pool	0.348	0.9	0.8	1.1	0.868	1.0	0.9	1.1

Table 10

	Sensitivity (%)	Specificity (%)
1 SNV	92	50
2 SNVs	92	75
3 SNVs	85	83
1 Clonal SNV	92	67
2 Clonal SNVs	92	83
3 Clonal SNVs	77	83
1 Subclonal SNV	69	67
2 Subclonal SNVs	38	83
3 Subclonal SNVs	38	92

Table 11

mutation_id	chrom	chromStart	regionTag	ref	mut	driveryCategory	Max Tumour VAF (1)	Mean Tumour VAF (1)	Max Tumour VAF (2)	Mean Tumour VAF (2)
LTX180:17:7578457C	chr17	7578457	LTX180	C	A	1	35.71	30.49	32.03	30.25
LTX180:18:42530965C	chr18	42530965	LTX180	C	A	2	25.22	23.90	27.86	25.61
LTX180:9:5055705G	chr9	5055705	LTX180	G	T	2	28.41	25.62	27.50	26.99
LTX180:X:39923016C	chrX	39923016	LTX180	C	T	1	25.45	22.58	22.72	21.63
LTX180:2:27303728C	chr2	27303728	LTX180	C	G	4	19.09	17.98	23.65	21.51
LTX180:11:117307924G	chr11	117307924	LTX180	G	C	4	25.58	25.09	24.35	21.56
LTX180:18:28934317A	chr18	28934317	LTX180	A	C	4	25.59	23.54	27.00	23.58
LTX180:6:83847081A	chr6	83847081	LTX180	A	T	4	22.18	19.48	20.65	19.39
LTX180:3:14199848T	chr3	14199848	LTX180	T	C	3	6.24	5.04	7.65	5.53
LTX180:11:4843295G	chr11	4843295	LTX180	G	T	4	8.19	6.19	7.24	6.34
LTX180:X:107423820G	chrX	107423820	LTX180	G	T	4	8.14	6.31	7.07	5.45
LTX180:3:31725537G	chr3	31725537	LTX180	G	C	4	6.73	4.73	8.16	6.06
LTX180:12:14578167G	chr12	14578167	LTX180	G	T	4	33.10	29.88	25.50	23.30
LTX180:4:170077668T	chr4	170077668	LTX180	T	A	4	18.93	18.72	19.79	18.93
LTX180:21:39763593G	chr21	39763593	LTX180	G	T	3	22.42	22.09	23.12	20.89
LTX180:1:1737935C	chr1	1737935	LTX180	C	A	4	20.78	19.58	16.01	13.30
LTX180:21:38302632C	chr21	38302632	LTX180	C	A	4	11.89	8.99	11.72	8.40
LTX073:17:7578450C	chr17	7578450	LTX073	C	A	1	65.49	36.92	59.90	34.00
LTX073:17:7578449C	chr17	7578449	LTX073	C	A	1	65.33	36.85	59.79	33.96
LTX073:12:46244139C	chr12	46244139	LTX073	C	T	1	54.97	38.52	51.02	34.48
LTX073:15:74327689G	chr15	74327689	LTX073	G	T	2	64.86	48.84	45.21	30.02
LTX073:19:10597402G	chr19	10597402	LTX073	G	A	2	50.29	35.39	45.03	29.14
LTX073:5:78378719C	chr5	78378719	LTX073	C	A	2	44.56	28.89	44.40	29.23

LTX073:19:1623974C	chr19	1623974	LTX073	C	G		2	34.25	26.48	32.81	26.05
LTX073:11:44228441G	chr11	44228441	LTX073	G	A		1	26.80	14.05	25.16	14.31
LTX073:4:106157924C	chr4	106157924	LTX073	C	T		2	30.42	19.86	23.84	16.82
LTX073:4:71062448G	chr4	71062448	LTX073	G	T		2	13.48	5.98	20.37	7.64
LTX073:12:25398284C	chr12	25398284	LTX073	C	A		1	29.16	14.19	20.08	9.85
LTX073:7:138554488T	chr7	138554488	LTX073	T	C		2	9.73	6.28	18.55	9.65
LTX073:16:27460080G	chr16	27460080	LTX073	G	T		2	12.28	6.28	10.53	5.42
LTX073:11:100061886C	chr11	100061886	LTX073	C	G		4	50.39	24.37	48.48	22.34
LTX073:1:214171377C	chr1	214171377	LTX073	C	A		4	19.88	16.38	20.00	14.83
LTX073:1:186269250G	chr1	186269250	LTX073	G	T		4	7.76	4.44	7.95	4.07
LTX073:7:100839588A	chr7	100839588	LTX073	A	C		4	12.80	6.37	9.75	5.79
LTX073:12:120954411T	chr12	120954411	LTX073	T	G		4	8.21	4.29	9.02	4.13
LTX073:X:148037179A	chrX	148037179	LTX073	A	C		4	7.57	1.90	6.42	1.61
LTX073:12:116452963T	chr12	116452963	LTX073	T	A		4	7.35	1.84	5.76	1.44
LTX073:5:65105902G	chr5	65105902	LTX073	G	C		4	13.94	3.49	11.53	2.93
LTX073:2:170044574G	chr2	170044574	LTX073	G	T		4	6.20	2.28	5.48	1.78
LTX058:16:15932098C	chr16	15932098	LTX058	C	A		2	77.37	51.00	77.53	50.77
LTX058:17:7577574T	chr17	7577574	LTX058	T	G		1	79.86	56.55	74.69	52.46
LTX058:4:187549863T	chr4	187549863	LTX058	T	A		2	49.00	25.81	51.77	25.30
LTX058:9:37002702C	chr9	37002702	LTX058	C	A		2	40.91	17.33	48.76	26.36
LTX058:15:88420326C	chr15	88420326	LTX058	C	A		2	47.46	22.04	47.37	24.21
LTX058:12:25398285C	chr12	25398285	LTX058	C	T		1	17.64	11.37	13.98	9.53
LTX058:X:63410352C	chrX	63410352	LTX058	C	T		1	10.64	2.14	9.69	1.94
LTX058:1:160607244C	chr1	160607244	LTX058	C	A		4	38.21	27.69	40.98	30.10
LTX058:6:34614534C	chr6	34614534	LTX058	C	A		4	27.37	17.01	26.82	18.34
LTX058:5:118456714G	chr5	118456714	LTX058	G	T		4	21.02	13.83	23.58	14.88

LTX058:22:50678733C	chr22	50678733	LTX058	C	A	4	5.77	1.16	5.14		1.03
LTX058:2:227660463G	chr2	227660463	LTX058	G	T	4	8.35	1.67	5.99		1.26
LTX058:10:104156229G	chr10	104156229	LTX058	G	C	3	27.55	7.26	25.45		6.86
LTX058:17:6980252G	chr17	6980252	LTX058	G	C	4	20.65	5.64	17.46		5.21
LTX058:3:189604317T	chr3	189604317	LTX058	T	A	4	10.18	3.14	10.08		3.47
LTX058:7:2564347G	chr7	2564347	LTX058	G	T	4	12.50	5.88	10.51		2.89
LTX058:20:25434139C	chr20	25434139	LTX058	C	A	4	11.46	3.17			
LTX058:17:46669614T	chr17	46669614	LTX058	T	G	4	5.56	1.40	13.61		2.98
LTX175:17:7577570C	chr17	7577570	LTX175	C	T	1	46.17	36.97	43.75		34.07
LTX175:13:28588650C	chr13	28588650	LTX175	C	A	2	37.19	32.52	38.49		32.82
LTX175:19:47424497C	chr19	47424497	LTX175	C	G	2	34.01	26.60	31.78		24.75
LTX175:19:47424731C	chr19	47424731	LTX175	C	G	2	34.43	26.53	30.34		22.66
LTX175:14:20779849C	chr14	20779849	LTX175	C	T	2	14.49	4.11	17.54		4.50
LTX175:15:88727481C	chr15	88727481	LTX175	C	T	2	14.36	6.80	17.45		7.23
LTX175:9:93636537T	chr9	93636537	LTX175	T	C	2	7.08	1.80	6.25		1.67
LTX175:7:154862800C	chr7	154862800	LTX175	C	G	4	27.14	23.60	53.07		37.64
LTX175:2:108881772G	chr2	108881772	LTX175	G	T	4	19.71	13.44	12.22		9.13
LTX175:7:121652018A	chr7	121652018	LTX175	A	C	4	9.55	6.58	10.69		6.84
LTX175:16:77918598G	chr16	77918598	LTX175	G	T	4	29.50	25.84	25.96		23.97
LTX175:17:32597315A	chr17	32597315	LTX175	A	C	4	24.07	11.01	20.09		9.47
LTX175:4:92520188C	chr4	92520188	LTX175	C	A	4	13.63	6.69	14.64		6.97
LTX175:17:67029876T	chr17	67029876	LTX175	T	G	4	18.88	8.98	23.38		9.91
LTX175:8:77776619A	chr8	77776619	LTX175	A	C	4	4.88	1.22	5.33		1.33
LTX175:2:54147457G	chr2	54147457	LTX175	G	T	4	5.11	1.28	5.53		1.38
LTX175:12:53070879C	chr12	53070879	LTX175	C	G	4	3.98	1.00	5.18		1.30
LTX175:12:109865278A	chr12	109865278	LTX175	A	C	4	6.35	1.59	6.75		1.69

LTX175:17:72610163G	chr17	72610163	LTX175	G	T	4	17.51	7.55	10.16		4.95	
LTX175:5:9190458G	chr5	9190458	LTX175	G	T	4	10.44	2.63	6.01		1.50	
LTX175:2:44556189T	chr2	44556189	LTX175	T	G	4	9.47	2.50	7.92		2.12	
LTX185:21:36259261C	chr21	36259261	LTX185	C	G	2	0.00	0.00	17.33		8.81	
LTX185:17:7579377G	chr17	7579377	LTX185	G	A	1	16.12	14.08	13.64		10.95	
LTX185:19:10610481A	chr19	10610481	LTX185	A	C	2	15.49	14.15	12.57		11.49	
LTX185:1:110882959C	chr1	110882959	LTX185	C	T	2	15.41	14.07	12.47		10.39	
LTX185:1:2494684C	chr1	2494684	LTX185	C	T	2	14.40	12.10	11.21		9.39	
LTX185:5:56178457G	chr5	56178457	LTX185	G	A	2	7.83	3.92	8.21		4.11	
LTX185:X:53239695C	chrX	53239695	LTX185	C	T	1	5.87	2.96	6.88		3.44	
LTX185:16:81968086C	chr16	81968086	LTX185	C	T	2	7.35	7.10	6.45		5.76	
LTX185:9:97873900C	chr9	97873900	LTX185	C	G	1	4.82	2.53	5.76		3.12	
LTX185:16:27556751C	chr16	27556751	LTX185	C	A	4	14.10	12.75	15.25		11.99	
LTX185:6:88853702C	chr6	88853702	LTX185	C	A	4	16.42	15.31	12.04		10.39	
LTX185:17:67082851A	chr17	67082851	LTX185	A	T	4	13.74	12.18	11.97		11.82	
LTX185:11:119057379G	chr11	119057379	LTX185	G	C	4	11.54	5.88	7.89		3.95	
LTX185:11:118343868C	chr11	118343868	LTX185	C	G	4	10.98	5.56	11.49		5.85	
LTX185:2:48602421G	chr2	48602421	LTX185	G	C	4	8.50	4.28	9.88		5.35	
LTX185:16:85141463G	chr16	85141463	LTX185	G	T	4	13.09	6.65	10.03		5.32	
LTX185:1:245849542C	chr1	245849542	LTX185	C	A	4	6.25	3.13	5.03		2.52	
LTX185:4:2339145C	chr4	2339145	LTX185	C	G	4	3.89	1.94	5.26		2.63	
LTX185:X:118678418C	chrX	118678418	LTX185	C	G	4	4.35	2.17	6.76		3.38	
LTX163:17:7577099C	chr17	7577099	LTX163	C	T	1	28.77	19.57	32.30		20.53	
LTX163:15:42019435T	chr15	42019435	LTX163	T	C	2	16.44	11.13	15.27		10.89	
LTX163:8:31014903G	chr8	31014903	LTX163	G	A	1	10.81	7.18	8.12		5.67	
LTX163:16:4829736C	chr16	4829736	LTX163	C	G	2	6.39	2.13	7.94		2.84	

LTX163:22:28196336C	chr22	28196336	LTX163	C	A	2	10.00	3.33	7.69	2.65	
LTX163:15:41961225C	chr15	41961225	LTX163	C	T	2	5.99	2.00	7.53	2.62	
LTX163:16:68772312G	chr16	68772312	LTX163	G	C	1	3.57	1.19	6.49	2.16	
LTX163:1:150802432G	chr1	150802432	LTX163	G	A	2	9.85	3.83	6.03	2.76	
LTX163:1:51439886G	chr1	51439886	LTX163	G	A	1	5.37	1.81	5.94	1.98	
LTX163:17:9850237C	chr17	9850237	LTX163	C	T	2	6.98	2.33	5.45	1.82	
LTX163:19:47440656G	chr19	47440656	LTX163	G	T	2	5.28	1.94	5.41	1.89	
LTX163:17:74732533G	chr17	74732533	LTX163	G	A	2	3.33	1.11	5.36	1.79	
LTX163:17:29483072C	chr17	29483072	LTX163	C	G	1	5.62	1.88	5.31	1.77	
LTX163:3:15084467G	chr3	15084467	LTX163	G	T	4	7.00	2.71	7.65	2.98	
LTX163:19:50162959G	chr19	50162959	LTX163	G	C	4	4.81	1.78	6.67	2.76	
LTX163:7:22862311G	chr7	22862311	LTX163	G	C	4	8.03	3.27	7.49	3.36	
LTX163:6:53989658G	chr6	53989658	LTX163	G	C	4	4.86	1.62	6.70	2.23	
LTX163:9:97325660G	chr9	97325660	LTX163	G	C	4	11.04	4.69	7.32	2.44	
LTX163:5:169144389T	chr5	169144389	LTX163	T	G	4	5.69	1.98	5.03	1.73	
LTX111:12:25380254C	chr12	25380254	LTX111	C	G	2	36.23	25.46	26.50	13.49	
LTX111:17:7577100T	chr17	7577100	LTX111	T	C	1	26.94	23.94	25.61	14.96	
LTX111:2:178098810C	chr2	178098810	LTX111	C	G	1	20.78	16.07	22.31	10.91	
LTX111:11:5529966C	chr11	5529966	LTX111	C	A	4	48.22	35.20	51.34	23.42	
LTX111:1:169566365A	chr1	169566365	LTX111	A	C	4	70.64	60.67	70.32	41.72	
LTX111:11:130289177A	chr11	130289177	LTX111	A	C	4	61.38	45.12	66.67	30.06	
LTX111:2:179650690C	chr2	179650690	LTX111	C	A	4	40.12	32.03	37.25	19.69	
LTX111:X:107393382G	chrX	107393382	LTX111	G	T	4	80.85	66.07	82.99	46.43	
LTX111:12:53241845G	chr12	53241845	LTX111	G	C	4	25.04	12.52	23.46	7.82	
LTX111:9:130550571G	chr9	130550571	LTX111	G	C	4	79.25	39.62	16.24	5.54	
LTX111:6:52052591C	chr6	52052591	LTX111	C	A	4	10.17	5.08	10.04	3.35	

LTX111:19:9088996G	chr19	9088996	LTX111	G	C		4	23.99	12.01	20.70		6.90
LTX111:5:150029516C	chr5	150029516	LTX111	C	G		4	0.00	0.00	35.66		11.96
LTX111:6:105233172G	chr6	105233172	LTX111	G	A		4	30.53	15.26	23.67		8.02
LTX111:14:20404706T	chr14	20404706	LTX111	T	A		4	5.08	2.54	6.06		2.02
LTX111:3:150281319G	chr3	150281319	LTX111	G	C		4	7.93	3.96	8.83		2.94
LTX111:19:48949644G	chr19	48949644	LTX111	G	A		4	5.56	2.78	6.56		2.19
LTX111:11:55681303C	chr11	55681303	LTX111	C	A		4	6.13	3.07	6.03		2.29
LTX111:8:21766938C	chr8	21766938	LTX111	C	G		4	5.36	4.95	5.24		2.23
LTX032:17:59876567C	chr17	59876567	LTX032	C	A		1	65.73	38.43	64.17		37.60
LTX032:17:7578528A	chr17	7578528	LTX032	A	C		1	52.11	31.25	50.39		28.14
LTX032:8:30989960G	chr8	30989960	LTX032	G	C		1	33.78	20.04	36.17		18.33
LTX032:1:51439769A	chr1	51439769	LTX032	A	G		2	12.55	7.52	12.31		7.06
LTX032:6:161530838G	chr6	161530838	LTX032	G	T		4	45.42	24.03	44.76		20.78
LTX032:9:140865874C	chr9	140865874	LTX032	C	G		4	45.71	25.95	43.96		23.43
LTX032:20:20269532G	chr20	20269532	LTX032	G	T		4	31.84	19.79	28.92		17.83
LTX032:11:61490377G	chr11	61490377	LTX032	G	T		4	51.27	31.74	49.51		29.27
LTX032:3:50387387C	chr3	50387387	LTX032	C	A		4	11.56	3.08	14.57		3.79
LTX032:1:170513981C	chr1	170513981	LTX032	C	G		4	7.42	1.94	6.16		1.66
LTX032:9:8331595A	chr9	8331595	LTX032	A	T		4	14.56	9.71	7.42		4.86
LTX032:5:5303830G	chr5	5303830	LTX032	G	T		4	6.51	3.66	7.16		3.90
LTX032:7:155530332G	chr7	155530332	LTX032	G	T		4	11.89	5.72	10.07		4.62
LTX032:7:86415632G	chr7	86415632	LTX032	G	C		4	10.94	4.10	10.73		4.81
LTX032:12:117188100C	chr12	117188100	LTX032	C	A		4	2.27	0.75	5.42		1.47
LTX032:20:57429470G	chr20	57429470	LTX032	G	T		3	1.04	0.26	5.24		1.48
LTX032:4:57865825C	chr4	57865825	LTX032	C	G		4	6.54	3.09	5.98		2.49
LTX032:6:26285720C	chr6	26285720	LTX032	C	G		4	9.06	3.44	5.94		2.35

LTX126:3:178952085A	chr3	178952085	LTX126	A	G	1	81.47	75.23	78.98		74.03	
LTX126:8:38274849G	chr8	38274849	LTX126	G	T	1	11.93	1.71	11.61		2.01	
LTX126:12:68549195C	chr12	68549195	LTX126	C	T	4	46.20	43.18	46.44		42.27	
LTX126:15:59528785T	chr15	59528785	LTX126	T	A	4	43.50	40.43	47.83		41.79	
LTX126:22:17488851C	chr22	17488851	LTX126	C	A	4	50.00	33.69	71.15		50.67	
LTX126:X:69898677T	chrX	69898677	LTX126	T	A	4	38.66	32.20	34.48		26.69	
LTX126:12:133303956G	chr12	133303956	LTX126	G	T	4	48.42	36.16	39.42		37.07	
LTX126:22:37531447G	chr22	37531447	LTX126	G	A	4	80.98	74.95	81.56		74.83	
LTX126:X:31222095G	chrX	31222095	LTX126	G	A	4	55.72	51.58	55.70		50.51	
LTX126:X:101910673C	chrX	101910673	LTX126	C	T	4	40.64	32.06	36.17		31.84	
LTX126:16:49671888C	chr16	49671888	LTX126	C	T	4	19.77	2.84	10.76		1.54	
LTX126:12:85450615G	chr12	85450615	LTX126	G	A	4	12.09	1.77	10.58		1.51	
LTX126:10:21804258C	chr10	21804258	LTX126	C	T	4	16.03	2.29	12.32		1.76	
LTX126:1:16332578G	chr1	16332578	LTX126	G	A	4	11.06	1.60	7.97		1.14	
LTX126:10:98764454A	chr10	98764454	LTX126	A	G	4	4.91	0.83	7.14		1.22	
LTX126:21:44324122C	chr21	44324122	LTX126	C	G	4	11.87	1.71	5.65		0.88	
LTX126:5:169138975C	chr5	169138975	LTX126	C	G	4	3.34	0.51	5.88		0.92	
LTX126:16:24135236C	chr16	24135236	LTX126	C	A	4	6.08	0.98	5.60		1.02	
LTX126:7:121965604C	chr7	121965604	LTX126	C	T	4	6.46	0.99	5.46		0.87	
LTX210:19:1207033A	chr19	1207033	LTX210	A	T	1	65.56	54.48	66.11		56.82	
LTX210:9:139409757C	chr9	139409757	LTX210	C	T	2	5.88	1.18	7.55		1.51	
LTX210:13:98043699G	chr13	98043699	LTX210	G	T	4	40.22	26.03	34.16		22.89	
LTX210:4:164449923G	chr4	164449923	LTX210	G	T	4	32.22	27.78	40.74		32.38	
LTX210:10:135084385C	chr10	135084385	LTX210	C	A	4	81.82	53.27	52.39		40.17	
LTX210:X:92927241T	chrX	92927241	LTX210	T	G	4	19.27	3.85	19.77		4.00	
LTX210:13:86369947A	chr13	86369947	LTX210	A	T	4	19.17	4.29	16.28		3.62	

LTX210:7:45124878C	chr7	45124878	LTX210	C	G	4	10.08	2.02	9.59	1.92	
LTX210:X:147733580A	chrX	147733580	LTX210	A	C	4	24.60	4.92	21.05	4.21	
LTX210:19:57325219T	chr19	57325219	LTX210	T	A	4	5.12	1.03	5.70	1.18	
LTX210:1:158617494T	chr1	158617494	LTX210	T	G	4	3.47	0.69	7.89	1.58	
LTX210:1:89732158G	chr1	89732158	LTX210	G	T	4	6.39	1.28	5.28	1.23	
LTX210:X:26236064A	chrX	26236064	LTX210	A	T	4	14.27	2.85	9.36	1.87	
LTX210:4:15444043C	chr4	15444043	LTX210	C	A	4	5.44	1.09	5.25	1.05	
LTX210:14:64924932A	chr14	64924932	LTX210	A	T	4	20.82	12.63	18.65	11.11	
LTX210:2:186656211A	chr2	186656211	LTX210	A	T	4	20.87	11.99	15.84	9.83	
LTX210:6:28403341T	chr6	28403341	LTX210	T	G	4	24.69	13.69	26.34	14.02	
LTX210:7:84694809G	chr7	84694809	LTX210	G	C	4	20.77	11.80	15.62	9.34	
LTX210:6:10796281C	chr6	10796281	LTX210	C	G	4	0.00	0.00	14.13	5.55	
LTX093:17:7578419C	chr17	7578419	LTX093	C	A	1	100.00	25.00	53.26	37.09	
LTX093:19:30936574G	chr19	30936574	LTX093	G	C	4	55.71	32.96	46.74	27.88	
LTX093:1:240256602C	chr1	240256602	LTX093	C	G	4	13.79	6.48	39.11	25.52	
LTX093:19:42301524C	chr19	42301524	LTX093	C	A	4	44.47	28.53	42.95	26.15	
LTX093:9:80144088T	chr9	80144088	LTX093	T	G	4	27.87	13.69	30.74	14.22	
LTX093:X:77913358G	chrX	77913358	LTX093	G	T	4	58.10	40.61	58.57	38.16	
LTX093:2:207003321A	chr2	207003321	LTX093	A	C	4	49.23	30.15	45.92	27.86	
LTX093:11:64111487C	chr11	64111487	LTX093	C	A	4	0.00	0.00	33.71	8.43	
LTX093:1:117527379C	chr1	117527379	LTX093	C	A	4	17.79	4.45	22.31	5.58	
LTX093:7:142750239G	chr7	142750239	LTX093	G	A	4	18.71	4.70	19.12	4.78	
LTX093:19:15281250C	chr19	15281250	LTX093	C	A	4	17.13	4.28	13.90	3.48	
LTX093:11:124748000C	chr11	124748000	LTX093	C	A	4	3.97	1.02	7.24	1.81	
LTX093:17:40765025T	chr17	40765025	LTX093	T	A	4	7.40	1.87			
LTX093:4:100057700C	chr4	100057700	LTX093	C	G	4	5.09	1.28	6.81	1.70	

LTX093:3:113321899G	chr3	113321899	LTX093	G	T	4	39.24	21.50	31.03	16.81	
LTX093:16:77387648G	chr16	77387648	LTX093	G	C	4	18.17	4.77	14.22	3.67	
LTX093:6:35911801G	chr6	35911801	LTX093	G	C	4	10.70	2.72	6.51	1.63	
LTX093:5:13781004T	chr5	13781004	LTX093	T	G	4	13.30	3.51	14.35	3.84	
LTX001:11:108122671T	chr11	108122671	LTX001	T	C	1	50.61	38.37	50.37	38.42	
LTX001:18:47806296T	chr18	47806296	LTX001	T	A	2	29.99	24.54	32.87	28.57	
LTX001:12:25398284C	chr12	25398284	LTX001	C	A	1	40.84	33.73	32.20	28.53	
LTX001:16:56976054G	chr16	56976054	LTX001	G	T	2	19.61	10.77	18.18	9.74	
LTX001:15:42052629C	chr15	42052629	LTX001	C	T	2	9.21	3.08	9.54	3.18	
LTX001:3:43095052C	chr3	43095052	LTX001	C	G	4	36.44	30.27	27.26	22.40	
LTX001:6:43322883C	chr6	43322883	LTX001	C	G	4	30.67	24.09	28.25	20.85	
LTX001:17:72436822G	chr17	72436822	LTX001	G	T	4	16.07	12.95	13.79	11.68	
LTX001:12:118293344C	chr12	118293344	LTX001	C	A	4	16.36	8.60	15.45	7.86	
LTX001:3:42672772G	chr3	42672772	LTX001	G	C	4	7.43	2.48	11.47	3.82	
LTX001:19:46269066G	chr19	46269066	LTX001	G	C	4	11.37	3.79	5.98	1.99	
LTX001:1:144922008G	chr1	144922008	LTX001	G	C	3	5.71	3.34	5.29	3.19	
LTX001:3:151046539G	chr3	151046539	LTX001	G	C	4	16.60	9.01	16.22	8.62	
LTX001:2:96933576G	chr2	96933576	LTX001	G	C	4	17.31	9.32	15.17	7.96	
LTX001:2:55920855A	chr2	55920855	LTX001	A	T	4	17.92	9.75	14.87	9.09	
LTX001:12:133306622C	chr12	133306622	LTX001	C	G	4	6.02	2.01	6.80	2.27	
LTX001:1:23763111C	chr1	23763111	LTX001	C	A	4	6.69	2.23	5.42	1.81	
LTX115:12:25398284C	chr12	25398284	LTX115	C	G	1	47.07	39.73	41.61	21.45	
LTX115:16:2131629C	chr16	2131629	LTX115	C	A	1	52.38	30.35	37.56	19.08	
LTX115:21:44524456G	chr21	44524456	LTX115	G	A	1	23.55	18.73	28.95	10.47	
LTX115:7:98553923A	chr7	98553923	LTX115	A	T	2	21.53	17.22	23.60	10.53	
LTX115:4:153245506G	chr4	153245506	LTX115	G	C	1	23.78	18.27	23.50	11.10	

LTX115:17:29654855A	chr17	29654855	LTX115	A	T	1	15.03	12.47	17.00		8.42	
LTX115:3:130300717C	chr3	130300717	LTX115	C	A	4	22.03	17.20	21.28		9.34	
LTX115:12:64178784A	chr12	64178784	LTX115	A	T	4	27.39	20.58	27.02		11.70	
LTX115:19:58326109C	chr19	58326109	LTX115	C	A	4	10.04	8.20	13.18		6.82	
LTX115:1:12726481A	chr1	12726481	LTX115	A	T	4	22.29	16.94	21.48		9.54	
LTX115:X:48337045G	chrX	48337045	LTX115	G	T	4	44.15	34.44	44.08		19.89	
LTX115:2:74687176C	chr2	74687176	LTX115	C	A	4	5.71	1.90	7.42		1.53	
LTX115:11:66333530C	chr11	66333530	LTX115	C	T	4	7.30	2.45	6.72		1.34	
LTX115:11:66333529C	chr11	66333529	LTX115	C	T	4	7.29	2.43	6.64		1.43	
LTX115:4:158262528C	chr4	158262528	LTX115	C	T	4	7.42	2.49	6.29		1.26	
LTX115:10:90703560C	chr10	90703560	LTX115	C	A	4	24.21	15.33	24.60		9.30	
LTX115:10:98408473G	chr10	98408473	LTX115	G	T	4	28.20	21.92	27.95		10.50	
LTX115:16:76389396G	chr16	76389396	LTX115	G	T	4	20.27	15.07	19.74		8.31	
LTX115:1:57415347C	chr1	57415347	LTX115	C	G	4	22.48	16.33	15.42		6.88	
LTX062:12:25398285C	chr12	25398285	LTX062	C	A	1	39.92	26.51	37.97		23.08	
LTX062:2:25467082C	chr2	25467082	LTX062	C	T	1	12.35	3.24	11.50		2.96	
LTX062:4:41748254G	chr4	41748254	LTX062	G	A	2	0.00	0.00	11.40		2.85	
LTX062:14:93264047C	chr14	93264047	LTX062	C	T	2	7.73	2.06				
LTX062:1:151534599G	chr1	151534599	LTX062	G	T	4	43.59	23.67	38.49		19.75	
LTX062:13:27649347C	chr13	27649347	LTX062	C	G	4	25.26	14.33	21.03		11.27	
LTX062:7:30962189C	chr7	30962189	LTX062	C	G	4	29.81	22.44	31.02		21.78	
LTX062:12:57114850G	chr12	57114850	LTX062	G	C	3	7.86	1.96	6.13		1.53	
LTX062:3:157081234T	chr3	157081234	LTX062	T	A	4	0.00	0.00	8.25		2.16	
LTX062:15:33872331C	chr15	33872331	LTX062	C	G	4	24.56	6.16	22.44		5.80	
LTX062:14:95080872G	chr14	95080872	LTX062	G	T	4	18.70	4.68	18.44		4.65	
LTX062:4:123336585G	chr4	123336585	LTX062	G	T	4	15.74	3.95	14.82		3.83	

LTX062.2:100623339C	chr2	100623339	LTX062	C	G	4	8.83	4.42	8.63	4.26	
LTX062.7:90613523A	chr7	90613523	LTX062	A	T	4	8.65	4.16	7.79	3.39	
LTX062.5:15937153G	chr5	15937153	LTX062	G	T	4	8.62	2.32	7.81	2.17	
LTX062.5:11082937C	chr5	11082937	LTX062	C	A	4	7.13	1.87	6.99	1.91	
LTX062.5:167645554C	chr5	167645554	LTX062	C	A	4	6.36	1.74	6.64	1.86	
LTX062.5:118469290G	chr5	118469290	LTX062	G	T	4	6.70	1.82	5.71	1.64	
LTX062.22:44322935C	chr22	44322935	LTX062	C	A	4	6.79	1.71	5.65	1.41	
LTX062.21:32638512A	chr21	32638512	LTX062	A	C	4	4.84	1.22	5.60	1.40	
LTX092.19:10597426C	chr19	10597426	LTX092	C	A	2	62.43	53.82	60.10	51.82	
LTX092.17:7577547C	chr17	7577547	LTX092	C	A	1	60.29	52.94	59.93	55.45	
LTX092.1:156838370G	chr1	156838370	LTX092	G	T	2	67.24	52.19	53.71	39.38	
LTX092.1:156838371G	chr1	156838371	LTX092	G	T	2	67.24	52.21	53.66	39.91	
LTX092.7:116397709T	chr7	116397709	LTX092	T	A	2	40.21	32.73	39.01	29.60	
LTX092.16:15841950G	chr16	15841950	LTX092	G	A	2	34.60	29.26	34.41	28.73	
LTX092.10:72358092G	chr10	72358092	LTX092	G	T	1	43.86	37.33	32.21	29.67	
LTX092.17:29701147C	chr17	29701147	LTX092	C	T	1	16.76	6.03	19.41	6.88	
LTX092.2:202151263G	chr2	202151263	LTX092	G	T	1	16.87	7.70	14.92	6.40	
LTX092.17:48266784G	chr17	48266784	LTX092	G	C	2	13.97	8.11	12.09	7.46	
LTX092.18:22806392C	chr18	22806392	LTX092	C	A	2	5.88	4.69	6.71	4.74	
LTX092.17:36873205T	chr17	36873205	LTX092	T	G	3	23.93	20.76	23.94	21.86	
LTX092.19:58190005G	chr19	58190005	LTX092	G	T	4	72.47	57.39	73.54	57.49	
LTX092.14:77745131C	chr14	77745131	LTX092	C	A	4	45.53	37.13	44.65	37.11	
LTX092.1:247752158C	chr1	247752158	LTX092	C	A	4	35.06	26.90	35.34	27.38	
LTX092.8:114186036G	chr8	114186036	LTX092	G	T	4	71.56	61.68	73.45	62.89	
LTX092.1:85279719A	chr1	85279719	LTX092	A	T	4	41.40	32.97	41.04	32.15	
LTX092.2:216252944G	chr2	216252944	LTX092	G	T	4	14.91	6.16	12.05	5.04	

LTX092:3:111632181G	chr3	111632181	LTX092	G	T	4	5.90	2.20	7.06	2.64	
LTX092:14:99641378T	chr14	99641378	LTX092	T	A	3	0.00	0.00	21.32	7.89	
LTX092:2:197583282G	chr2	197583282	LTX092	G	C	4	14.47	6.03	11.85	4.61	
LTX107:6:168363207G	chr6	168363207	LTX107	G	A	2	50.60	19.76	42.64	14.29	
LTX107:19:10906762G	chr19	10906762	LTX107	G	A	1	42.63	27.36	37.04	22.23	
LTX107:3:105389088G	chr3	105389088	LTX107	G	A	1	20.97	4.76	18.98	3.87	
LTX107:7:88965145G	chr7	88965145	LTX107	G	C	4	45.85	29.72	47.11	25.73	
LTX107:18:31324126C	chr18	31324126	LTX107	C	A	4	23.81	16.49	22.22	13.15	
LTX107:19:55441944A	chr19	55441944	LTX107	A	T	4	41.47	28.17	39.74	22.85	
LTX107:3:156272875C	chr3	156272875	LTX107	C	A	4	91.67	75.56	81.63	46.63	
LTX107:7:82595317C	chr7	82595317	LTX107	C	A	4	46.74	30.70	46.98	25.86	
LTX107:5:76128834T	chr5	76128834	LTX107	T	G	4	20.25	4.44	21.63	4.19	
LTX107:7:111422930A	chr7	111422930	LTX107	A	C	4	18.85	4.30	18.46	3.66	
LTX107:2:49210252G	chr2	49210252	LTX107	G	T	4	18.22	8.62	16.02	6.59	
LTX107:15:78463865G	chr15	78463865	LTX107	G	C	4	19.71	9.56	16.74	7.16	
LTX107:8:133045358G	chr8	133045358	LTX107	G	T	4	14.34	6.55	14.29	5.76	
LTX107:11:124440051C	chr11	124440051	LTX107	C	A	4	7.66	1.28	6.57	0.98	
LTX107:8:61750713G	chr8	61750713	LTX107	G	T	4	6.84	1.14	6.49	0.93	
LTX107:X:140996113G	chrX	140996113	LTX107	G	T	4	16.16	2.69	13.19	1.88	
LTX107:19:15586421G	chr19	15586421	LTX107	G	T	4	14.31	2.40	12.39	1.77	
LTX107:7:20689746G	chr7	20689746	LTX107	G	C	4	8.61	1.43	8.00	1.24	
LTX107:X:32381072A	chrX	32381072	LTX107	A	C	4	25.68	4.29	22.98	3.47	
LTX085:4:55561909A	chr4	55561909	LTX085	A	G	2	50.35	50.35	44.11	22.06	
LTX085:12:102155369C	chr12	102155369	LTX085	C	G	2	39.78	39.78	36.34	18.17	
LTX085:1:186294922T	chr1	186294922	LTX085	T	C	2	21.41	21.41	28.24	14.12	
LTX085:7:148544318G	chr7	148544318	LTX085	G	A	2	9.23	9.23	8.09	4.05	

LTX085:2:70919577G	chr2	70919577	LTX085	G	C	4	9.62	9.62	16.33		8.17	
LTX085:12:6923449A	chr12	6923449	LTX085	A	G	4	10.47	10.47	10.92		5.46	
LTX085:7:107704397T	chr7	107704397	LTX085	T	C	4	32.79	32.79	30.66		15.33	
LTX085:2:31598323A	chr2	31598323	LTX085	A	G	4	5.95	5.95	8.94		4.47	
LTX085:3:193132437C	chr3	193132437	LTX085	C	A	4	41.92	41.92	37.04		18.52	
LTX085:X:48762531A	chrX	48762531	LTX085	A	G	4	16.04	16.04	29.08		14.54	
LTX085:1:159409831A	chr1	159409831	LTX085	A	C	4	28.03	28.03	28.34		14.17	
LTX085:16:25232800G	chr16	25232800	LTX085	G	A	4	15.23	15.23	8.57		4.29	
LTX085:18:63526274C	chr18	63526274	LTX085	C	T	4	12.06	12.06	7.21		3.61	
LTX085:1:67243012A	chr1	67243012	LTX085	A	G	4	7.26	7.26	5.72		2.86	
LTX085:20:49195748T	chr20	49195748	LTX085	T	C	4	8.27	8.27	5.56		2.78	
LTX028:16:11000781G	chr16	11000781	LTX028	G	A	2	55.17	31.11	56.35		26.19	
LTX028:18:22804610C	chr18	22804610	LTX028	C	G	2	53.25	31.47	47.27		20.33	
LTX028:16:27454289C	chr16	27454289	LTX028	C	A	2	33.83	25.28	35.16		18.70	
LTX028:6:117638319G	chr6	117638319	LTX028	G	A	2	28.00	17.86	28.31		12.03	
LTX028:10:22016857G	chr10	22016857	LTX028	G	T	2	27.78	15.59	23.88		10.13	
LTX028:10:21823709G	chr10	21823709	LTX028	G	T	2	21.57	6.03	19.46		6.95	
LTX028:19:38942485A	chr19	38942485	LTX028	A	C	4	25.22	15.06	25.87		11.67	
LTX028:16:55705930C	chr16	55705930	LTX028	C	G	4	30.10	19.20	25.43		11.90	
LTX028:19:56896362T	chr19	56896362	LTX028	T	A	4	27.56	17.27	27.32		12.45	
LTX028:1:238053905C	chr1	238053905	LTX028	C	G	4	41.69	27.37	35.81		17.73	
LTX028:18:21957404C	chr18	21957404	LTX028	C	A	4	16.97	2.84	16.93		2.12	
LTX028:1:153658292A	chr1	153658292	LTX028	A	T	4	21.68	3.62	17.20		2.15	
LTX028:10:12139797C	chr10	12139797	LTX028	C	G	4	12.81	2.96	12.19		2.15	
LTX028:11:5969433T	chr11	5969433	LTX028	T	G	4	10.19	2.42	9.64		1.74	
LTX028:18:10696430A	chr18	10696430	LTX028	A	T	4	26.47	12.61	26.83		9.05	

LTX028:6:170592441G	chr6	170592441	LTX028	G	T	4	3.32	0.64	6.68	0.84	
LTX028:1:237817673A	chr1	237817673	LTX028	A	T	4	7.80	1.30	6.90	0.86	
LTX028:1:43904447A	chr1	43904447	LTX028	A	C	4	6.58	1.11	6.19	0.77	
LTX028:6:27879686G	chr6	27879686	LTX028	G	C	4	6.77	1.13	5.84	0.73	
LTX025:22:29095912C	chr22	29095912	LTX025	C	A	1	56.95	35.26	57.36	33.82	
LTX025:X:152807895T	chrX	152807895	LTX025	T	A	2	37.14	30.25	48.63	32.80	
LTX025:19:3113467C	chr19	3113467	LTX025	C	G	2	11.11	7.20	30.89	17.89	
LTX025:16:3786795C	chr16	3786795	LTX025	C	A	2	7.51	4.16	30.77	16.40	
LTX025:3:57448502G	chr3	57448502	LTX025	G	C	2	38.28	22.42	30.22	18.66	
LTX025:7:91691662C	chr7	91691662	LTX025	C	T	2	21.77	14.83	19.47	14.24	
LTX025:19:4362364G	chr19	4362364	LTX025	G	A	2	50.00	18.97	15.75	5.03	
LTX025:13:29600029G	chr13	29600029	LTX025	G	C	4	31.13	19.76	33.52	19.92	
LTX025:12:122261145G	chr12	122261145	LTX025	G	T	4	17.65	10.36	21.31	13.02	
LTX025:15:24922479G	chr15	24922479	LTX025	G	A	4	16.02	9.37	16.99	8.64	
LTX025:9:79322437C	chr9	79322437	LTX025	C	A	4	38.00	23.21	31.33	20.16	
LTX025:2:10894174C	chr2	10894174	LTX025	C	A	4	39.92	24.22	42.94	24.50	
LTX025:11:56085828G	chr11	56085828	LTX025	G	T	4	25.72	18.61	20.41	15.01	
LTX025:12:1940586G	chr12	1940586	LTX025	G	C	4	10.37	2.59	7.72	1.93	
LTX025:6:170592096C	chr6	170592096	LTX025	C	G	4	8.38	2.09	6.00	1.50	
LTX025:5:140603250A	chr5	140603250	LTX025	A	C	4	5.14	1.30	6.49	1.62	
LTX025:4:1991518C	chr4	1991518	LTX025	C	A	4	5.78	1.45	6.72	1.73	
LTX025:2:70905982C	chr2	70905982	LTX025	C	G	4	5.18	1.30	5.91	1.48	
LTX025:11:93088652C	chr11	93088652	LTX025	C	T	4	4.18	1.06	5.12	1.28	
LTX120:17:7578527A	chr17	7578527	LTX120	A	G	1	53.85	38.43	36.78	29.81	
LTX120:7:137597807C	chr7	137597807	LTX120	C	G	2	26.42	20.53	28.92	20.05	
LTX120:10:8006756G	chr10	8006756	LTX120	G	T	4	15.00	14.22	19.90	15.93	

LTX120:7:27582682C	chr7	27582682	LTX120	C	A	4	25.00	19.15	25.37	17.45	
LTX120:10:96798759G	chr10	96798759	LTX120	G	T	4	17.95	16.11	20.22	15.74	
LTX120:13:43986184C	chr13	43986184	LTX120	C	T	4	24.59	19.33	25.34	19.50	
LTX120:18:346453G	chr18	346453	LTX120	G	T	4	36.36	26.05	23.51	18.18	
LTX120:20:30432471G	chr20	30432471	LTX120	G	T	4	50.00	36.65	49.44	34.38	
LTX120:1:182993071G	chr1	182993071	LTX120	G	A	4	27.06	13.53	19.59	16.67	
LTX120:3:49294386C	chr3	49294386	LTX120	C	G	4	19.05	16.77	25.08	19.47	
LTX120:3:50324123A	chr3	50324123	LTX120	A	T	4	7.57	6.01	12.77	9.40	
LTX120:1:6206306C	chr1	6206306	LTX120	C	G	4	7.09	6.74	13.33	10.23	
LTX120:9:5798962C	chr9	5798962	LTX120	C	T	4	18.18	12.57	9.13	7.68	
LTX120:20:62323174G	chr20	62323174	LTX120	G	A	4	11.56	5.78	10.73	8.13	
LTX120:3:38768524G	chr3	38768524	LTX120	G	T	4	12.73	10.12	12.92	9.64	
LTX120:2:141359067A	chr2	141359067	LTX120	A	G	4	12.86	8.00	6.25	4.36	
LTX120:2:211521351G	chr2	211521351	LTX120	G	T	4	15.12	10.60	8.33	6.53	
LTX120:9:131107700G	chr9	131107700	LTX120	G	A	4	8.16	5.40	6.50	4.31	
LTX041:X:152830557C	chrX	152830557	LTX041	C	G	2	76.91	55.52	46.67	23.39	
LTX041:12:25398285C	chr12	25398285	LTX041	C	A	1	44.70	34.18	37.39	22.15	
LTX041:4:153245455C	chr4	153245455	LTX041	C	A	1	37.56	27.15	36.39	20.27	
LTX041:17:7579378G	chr17	7579378	LTX041	G	T	1	37.13	26.71	33.98	19.36	
LTX041:13:103520588G	chr13	103520588	LTX041	G	T	1	28.13	20.22	27.59	14.05	
LTX041:16:15844020C	chr16	15844020	LTX041	C	T	2	29.27	23.71	24.29	13.74	
LTX041:10:104857113G	chr10	104857113	LTX041	G	C	2	22.74	15.19	21.71	10.46	
LTX041:11:85733463C	chr11	85733463	LTX041	C	G	2	18.28	12.54	15.81	8.59	
LTX041:X:90691588G	chrX	90691588	LTX041	G	T	4	24.10	16.76	37.67	19.44	
LTX041:12:7636270G	chr12	7636270	LTX041	G	T	4	44.90	34.41	44.74	27.00	
LTX041:2:79348040C	chr2	79348040	LTX041	C	A	4	28.41	21.98	26.57	16.48	

LTX041:16:68023965C	chr16	68023965	LTX041	C	A	4	14.80	9.93	13.77		6.92	
LTX041:13:110804825C	chr13	110804825	LTX041	C	A	4	10.53	7.28	6.25		3.92	
LTX041:14:105920600G	chr14	105920600	LTX041	G	T	4	10.53	3.51	6.83		1.84	
LTX041:1:17176246G	chr1	17176246	LTX041	G	T	4	5.35	1.80	7.75		1.94	
LTX041:1:150259318G	chr1	150259318	LTX041	G	C	4	17.75	12.29	16.23		8.35	
LTX041:6:62390879C	chr6	62390879	LTX041	C	A	4	16.50	12.23	16.15		7.72	
LTX041:16:4896197C	chr16	4896197	LTX041	C	A	4	13.47	8.90	13.16		7.56	
LTX041:13:110804826C	chr13	110804826	LTX041	C	A	4	10.55	7.31	6.10		3.90	
LTX097:17:7577580T	chr17	7577580	LTX097	T	C	1	37.89	23.03	40.44		20.72	
LTX097:1:115256529T	chr1	115256529	LTX097	T	C	1	40.39	26.00	39.28		21.12	
LTX097:2:178098966C	chr2	178098966	LTX097	C	T	2	27.00	17.83	28.67		14.89	
LTX097:7:98609727G	chr7	98609727	LTX097	G	A	2	12.46	8.78	14.73		8.88	
LTX097:15:42059002G	chr15	42059002	LTX097	G	C	2	16.82	10.33	13.96		8.37	
LTX097:5:66460021G	chr5	66460021	LTX097	G	A	4	31.82	19.60	18.60		9.41	
LTX097:1:2939112G	chr1	2939112	LTX097	G	C	4	30.65	18.90	17.26		9.05	
LTX097:2:136615556C	chr2	136615556	LTX097	C	T	4	13.10	7.69	13.41		6.22	
LTX097:19:1083272C	chr19	1083272	LTX097	C	T	4	15.38	9.51	22.27		10.59	
LTX097:7:75932205C	chr7	75932205	LTX097	C	A	4	15.79	2.90	5.65		0.79	
LTX097:19:3978139G	chr19	3978139	LTX097	G	A	4	5.82	0.92	10.71		1.36	
LTX097:19:39087699G	chr19	39087699	LTX097	G	A	4	8.79	1.28	7.41		0.96	
LTX097:16:72184618C	chr16	72184618	LTX097	C	G	4	14.21	2.03	8.73		1.09	
LTX097:22:37903864A	chr22	37903864	LTX097	A	C	4	13.56	6.28	20.78		7.19	
LTX097:7:121612669A	chr7	121612669	LTX097	A	C	4	7.72	1.40	8.56		1.33	
LTX097:22:36722683G	chr22	36722683	LTX097	G	A	3	15.61	5.01	15.00		4.19	
LTX097:17:10398519G	chr17	10398519	LTX097	G	A	4	18.18	6.39	11.64		4.08	
LTX097:11:134018480G	chr11	134018480	LTX097	G	A	4	9.23	2.51	9.82		1.95	

LTX097:5:52386370T	chr5	52386370	LTX097	T	C	4	10.49	2.70	11.81	2.56	
LTX055:12:25398285C	chr12	25398285	LTX055	C	A	1	48.85	44.77	40.95	38.52	
LTX055:17:29483017G	chr17	29483017	LTX055	G	T	1	28.82	28.24	26.57	24.24	
LTX055:4:41749461C	chr4	41749461	LTX055	C	G	1	41.06	38.99	23.46	20.85	
LTX055:19:51380137C	chr19	51380137	LTX055	C	A	2	15.58	15.28	14.73	13.07	
LTX055:1:78430779C	chr1	78430779	LTX055	C	A	1	11.45	6.79	10.47	5.08	
LTX055:12:25398284C	chr12	25398284	LTX055	C	A	1	5.51	1.84	5.14	1.71	
LTX055:1:236882203T	chr1	236882203	LTX055	T	A	4	10.98	10.72	15.21	11.53	
LTX055:15:28513699C	chr15	28513699	LTX055	C	A	4	32.17	31.26	27.87	26.09	
LTX055:1:183775513C	chr1	183775513	LTX055	C	G	4	13.81	11.88	11.59	10.43	
LTX055:12:101739472G	chr12	101739472	LTX055	G	T	4	25.39	24.08	25.58	22.52	
LTX055:18:31523112C	chr18	31523112	LTX055	C	A	4	4.90	1.63	7.60	2.53	
LTX055:X:100745059A	chrX	100745059	LTX055	A	C	4	6.87	2.29	7.55	2.52	
LTX055:5:38425079C	chr5	38425079	LTX055	C	G	4	7.09	2.36	8.02	2.67	
LTX055:3:178543485G	chr3	178543485	LTX055	G	C	4	4.24	1.41	6.02	2.01	
LTX055:4:57796165G	chr4	57796165	LTX055	G	C	4	10.00	4.91	10.97	5.04	
LTX055:4:123184698G	chr4	123184698	LTX055	G	T	4	12.48	5.70	9.84	5.11	
LTX055:4:85530655G	chr4	85530655	LTX055	G	T	4	12.99	5.93	9.21	4.43	
LTX055:5:174099A	chr5	174099	LTX055	A	T	4	6.70	2.23	7.53	2.68	
LTX055:16:80718770G	chr16	80718770	LTX055	G	C	4	11.90	4.11	8.78	2.93	
LTX055:12:32145428G	chr12	32145428	LTX055	G	C	4	9.30	3.17	7.88	2.66	
LTX055:X:37985925G	chrX	37985925	LTX055	G	T	4	19.99	6.68	24.81	8.27	
LTX165:17:7578457C	chr17	7578457	LTX165	C	A	1	65.59	53.30	66.67	52.43	
LTX165:4:153245381T	chr4	153245381	LTX165	T	C	1	53.76	42.14	53.71	44.71	
LTX165:13:28542956G	chr13	28542956	LTX165	G	T	2	48.94	36.64	42.41	36.40	
LTX165:13:32929041G	chr13	32929041	LTX165	G	T	2	42.09	36.56	39.77	30.06	

LTX165:11:111228171G	chr11	111228171	LTX165	G	A	2	14.47	3.64	12.85		3.21	
LTX165:17:71361424C	chr17	71361424	LTX165	C	A	4	45.05	35.08	53.07		37.00	
LTX165:14:31061546G	chr14	31061546	LTX165	G	C	4	51.05	34.23	52.52		34.80	
LTX165:16:48174630A	chr16	48174630	LTX165	A	T	4	33.22	27.53	35.06		25.29	
LTX165:10:28224075G	chr10	28224075	LTX165	G	C	4	52.24	44.13				
LTX165:4:22394224T	chr4	22394224	LTX165	T	A	4	43.88	35.12	39.93		35.28	
LTX165:6:27858176C	chr6	27858176	LTX165	C	G	4	25.15	6.31	13.46		3.37	
LTX165:19:11226802C	chr19	11226802	LTX165	C	T	4	15.04	3.81	13.36		3.34	
LTX165:4:106880244G	chr4	106880244	LTX165	G	A	4	14.68	3.71	12.72		3.18	
LTX165:1:117644093G	chr1	117644093	LTX165	G	A	4	21.59	5.47	20.42		5.11	
LTX165:18:10784905C	chr18	10784905	LTX165	C	T	4	11.21	2.85	6.43		1.61	
LTX165:10:6264869C	chr10	6264869	LTX165	C	T	4	41.14	19.52	27.43		12.81	
LTX165:11:72141386G	chr11	72141386	LTX165	G	A	4	19.41	8.79	17.46		7.66	
LTX165:14:105518356C	chr14	105518356	LTX165	C	T	4	40.59	20.29	34.12		18.95	
LTX165:3:121228960G	chr3	121228960	LTX165	G	A	4	9.44	2.40				
LTX165:11:30433103G	chr11	30433103	LTX165	G	T	4	9.71	2.43	8.61		2.15	
LTX021:9:95179143G	chr9	95179143	LTX021	G	A	2	15.30	10.11	15.57		10.39	
LTX021:5:149514547C	chr5	149514547	LTX021	C	A	2	11.13	7.81	10.38		8.35	
LTX021:5:158140143T	chr5	158140143	LTX021	T	G	2	10.18	8.66	10.20		8.38	
LTX021:X:76938197C	chrX	76938197	LTX021	C	A	1	8.07	6.72	7.32		5.99	
LTX021:1:232172482G	chr1	232172482	LTX021	G	T	4	15.63	11.32	10.24		7.11	
LTX021:6:161143509C	chr6	161143509	LTX021	C	A	4	9.24	6.37	8.04		6.01	
LTX021:8:48626203G	chr8	48626203	LTX021	G	T	4	7.86	5.68	12.56		6.94	
LTX021:1:150256855G	chr1	150256855	LTX021	G	C	4	5.92	1.48	5.01		1.25	
LTX021:X:144906375T	chrX	144906375	LTX021	T	A	4	6.22	1.56	8.53		2.16	
LTX021:7:126173825G	chr7	126173825	LTX021	G	C	4	5.15	3.04	5.89		3.35	

LTX021:17:17700179C	chr17	17700179	LTX021	C	G	4	8.00	2.75	8.68		3.14	
LTX021:13:114748827G	chr13	114748827	LTX021	G	T	4	11.63	5.39	6.91		4.30	
LTX021:X:37312417C	chrX	37312417	LTX021	C	A	4	9.45	5.11	8.12		4.26	
LTX021:12:112528627C	chr12	112528627	LTX021	C	G	4	5.87	1.47	5.73		1.43	
LTX021:3:148924116T	chr3	148924116	LTX021	T	G	4	4.78	1.19	5.11		1.28	
LTX021:17:72859324T	chr17	72859324	LTX021	T	A	4	3.86	0.97	7.32		1.83	
LTX021:2:45826689T	chr2	45826689	LTX021	T	G	4	4.97	1.24	5.11		1.30	
LTX021:12:12006363G	chr12	12006363	LTX021	G	C	3	10.74	3.97	10.21		3.28	
LTX021:14:94420800T	chr14	94420800	LTX021	T	A	4	10.69	4.51	8.47		3.66	
LTX059:22:36715609G	chr22	36715609	LTX059	G	C	2	25.46	18.31	26.47		13.82	
LTX059:13:103519140T	chr13	103519140	LTX059	T	A	1	13.20	5.30	12.04		3.86	
LTX059:15:72039278C	chr15	72039278	LTX059	C	A	4	16.36	15.37	13.34		8.61	
LTX059:4:72618298C	chr4	72618298	LTX059	C	G	4	18.87	13.27	15.01		10.30	
LTX059:7:113558795G	chr7	113558795	LTX059	G	T	4	19.60	14.44	17.17		9.78	
LTX059:6:167369586G	chr6	167369586	LTX059	G	C	4	52.58	30.30	33.16		15.17	
LTX059:7:126173256T	chr7	126173256	LTX059	T	C	4	19.85	14.54	14.63		9.52	
LTX059:9:104499652C	chr9	104499652	LTX059	C	A	4	33.82	19.08	29.31		14.06	
LTX059:1:15635212G	chr1	15635212	LTX059	G	A	4	18.54	14.08	13.24		8.57	
LTX059:6:152599226G	chr6	152599226	LTX059	G	T	4	13.05	10.89	9.91		5.35	
LTX059:4:121737614G	chr4	121737614	LTX059	G	T	4	13.76	9.61	14.41		6.81	
LTX059:6:89981387G	chr6	89981387	LTX059	G	A	4	10.39	9.13	9.53		5.90	
LTX059:1:109778027A	chr1	109778027	LTX059	A	G	4	13.57	9.01	14.17		6.91	
LTX059:11:74424521C	chr11	74424521	LTX059	C	T	4	4.84	1.63	7.30		1.93	
LTX059:X:48759725C	chrX	48759725	LTX059	C	T	4	8.73	2.95	6.35		1.59	
LTX059:20:55033411A	chr20	55033411	LTX059	A	T	4	11.35	4.69	12.05		3.80	
LTX059:3:142089350C	chr3	142089350	LTX059	C	T	4	6.60	2.23	5.81		1.57	

LTX059:17:1538596G	chr17	1538596	LTX059	G	T	4	0.00	0.00	5.02		1.26	
LTX084:12:25398284C	chr12	25398284	LTX084	C	G	1	19.69	14.02	17.43		12.78	
LTX084:16:14029154G	chr16	14029154	LTX084	G	T	2	10.06	7.44	10.59		7.23	
LTX084:2:51255338G	chr2	51255338	LTX084	G	T	4	25.00	12.50	13.36		9.79	
LTX084:1:12024323G	chr1	12024323	LTX084	G	T	4	9.91	6.35	9.47		6.42	
LTX084:17:56540520C	chr17	56540520	LTX084	C	A	4	11.19	8.94	11.30		8.55	
LTX084:5:101595952C	chr5	101595952	LTX084	C	T	4	11.66	8.63	13.33		9.78	
LTX084:13:60413543C	chr13	60413543	LTX084	C	A	4	12.64	9.83	10.01		8.97	
LTX084:1:207196454C	chr1	207196454	LTX084	C	T	4	5.97	2.97	5.97		2.91	
LTX084:7:78256448C	chr7	78256448	LTX084	C	T	4	16.47	10.63	13.93		8.69	
LTX084:4:41663444C	chr4	41663444	LTX084	C	A	4	11.11	8.62	10.44		7.73	
LTX084:1:68910321C	chr1	68910321	LTX084	C	A	4	10.37	7.05	9.51		6.04	
LTX084:1:19449434C	chr1	19449434	LTX084	C	A	4	10.54	6.45	9.46		5.80	
LTX084:10:68687168G	chr10	68687168	LTX084	G	T	4	9.65	7.66	8.48		6.36	
LTX084:18:63477161G	chr18	63477161	LTX084	G	T	4	5.74	3.20	5.01		2.72	
LTX135:12:49434516C	chr12	49434516	LTX135	C	A	1	36.07	19.41	38.46		17.00	
LTX135:14:21869106C	chr14	21869106	LTX135	C	T	2	42.59	23.43	37.76		17.76	
LTX135:12:25398284C	chr12	25398284	LTX135	C	A	1	36.64	22.64	36.20		16.83	
LTX135:15:45007672C	chr15	45007672	LTX135	C	G	2	36.90	20.58	35.36		16.19	
LTX135:1:27023307C	chr1	27023307	LTX135	C	G	1	0.00	0.00	33.18		13.82	
LTX135:19:10600420C	chr19	10600420	LTX135	C	G	2	31.16	16.11	31.91		12.11	
LTX135:14:81610301C	chr14	81610301	LTX135	C	A	1	35.37	20.94	31.34		16.64	
LTX135:15:88727459T	chr15	88727459	LTX135	T	A	2	28.68	17.16	29.72		14.39	
LTX135:17:7578190T	chr17	7578190	LTX135	T	C	1	32.57	16.94	28.22		13.15	
LTX135:17:29663397G	chr17	29663397	LTX135	G	T	1	23.96	14.16	25.85		11.14	
LTX135:1:3329196G	chr1	3329196	LTX135	G	A	2	25.00	6.25	25.70		12.11	

LTX135:19:45262781C	chr19	45262781	LTX135	C	T	2	23.04	13.56	23.87	10.93	
LTX135:11:128680482C	chr11	128680482	LTX135	C	T	2	20.29	11.05	19.12	7.11	
LTX135:3:69928297G	chr3	69928297	LTX135	G	T	2	13.35	5.57	13.70	4.44	
LTX135:21:31709951G	chr21	31709951	LTX135	G	C	4	10.69	2.67	9.09	1.82	
LTX135:8:109260902G	chr8	109260902	LTX135	G	C	4	7.82	3.64	6.35	2.13	
LTX135:X:69262973G	chrX	69262973	LTX135	G	C	4	18.71	4.68	7.53	1.51	
LTX135:17:7674212G	chr17	7674212	LTX135	G	C	4	6.23	1.57	10.24	2.05	
LTX135:7:1976519C	chr7	1976519	LTX135	C	G	4	2.61	0.65	5.20	1.04	
LTX048:1:179087864T	chr1	179087864	LTX048	T	A	2	23.46	20.04	24.72	16.03	
LTX048:7:13975490T	chr7	13975490	LTX048	T	A	2	11.07	10.66	12.26	8.04	
LTX048:22:36688117T	chr22	36688117	LTX048	T	G	2	6.64	2.21	6.96	1.74	
LTX048:19:1009549C	chr19	1009549	LTX048	C	A	4	50.00	19.44	29.47	16.65	
LTX048:5:170883636G	chr5	170883636	LTX048	G	T	4	22.00	18.05	22.98	16.93	
LTX048:2:79312626G	chr2	79312626	LTX048	G	T	4	17.61	13.65	14.89	9.15	
LTX048:6:147527134C	chr6	147527134	LTX048	C	T	4	25.30	20.30	19.14	13.97	
LTX048:6:26225746C	chr6	26225746	LTX048	C	A	4	22.74	17.72	21.76	13.55	
LTX048:X:44108149C	chrX	44108149	LTX048	C	A	4	26.86	23.34	25.00	17.99	
LTX048:14:23523992C	chr14	23523992	LTX048	C	G	4	9.81	3.27	9.66	2.48	
LTX048:X:49040341C	chrX	49040341	LTX048	C	T	4	7.91	2.64	6.57	1.75	
LTX048:6:16326778C	chr6	16326778	LTX048	C	A	4	5.79	1.93	7.68	1.92	
LTX048:1:225565074G	chr1	225565074	LTX048	G	A	4	11.94	4.00	11.66	2.92	
LTX048:14:20692485C	chr14	20692485	LTX048	C	T	4	17.41	5.82	14.65	3.73	
LTX048:7:115890528C	chr7	115890528	LTX048	C	T	4	10.96	3.66	11.90	2.98	
LTX048:13:100425110T	chr13	100425110	LTX048	T	G	4	6.29	2.10	6.45	1.61	
LTX048:22:19883040G	chr22	19883040	LTX048	G	A	4	24.18	8.07	13.74	3.68	
LTX048:17:18219954C	chr17	18219954	LTX048	C	T	4	6.50	3.90	6.84	2.84	

LTX046:17:7579485C	chr17	7579485	LTX046	C	A		1	36.82	25.75	37.01		25.06
LTX046:7:55241708G	chr7	55241708	LTX046	G	C		1	36.18	25.09	36.05		23.47
LTX046:18:48604750G	chr18	48604750	LTX046	G	A		2	16.16	4.17	15.30		3.88
LTX046:X:152830448G	chrX	152830448	LTX046	G	A		2	17.11	4.33	7.41		1.85
LTX046:19:45375306G	chr19	45375306	LTX046	G	C		4	26.20	15.92	24.22		16.26
LTX046:2:228882599C	chr2	228882599	LTX046	C	T		4	12.43	9.53	9.01		7.20
LTX046:10:118689468C	chr10	118689468	LTX046	C	G		4	11.55	2.92	11.95		2.99
LTX046:3:4847939C	chr3	4847939	LTX046	C	G		4	9.67	2.44	10.47		2.62
LTX046:16:58713976C	chr16	58713976	LTX046	C	A		4	10.45	2.62	9.85		2.52
LTX046:4:57839436C	chr4	57839436	LTX046	C	G		4	13.49	6.06	10.75		4.71
LTX046:22:43539119C	chr22	43539119	LTX046	C	A		4	13.89	3.47	9.69		5.23
LTX046:4:164272221G	chr4	164272221	LTX046	G	C		4	6.96	3.15	8.50		3.40
LTX046:13:30107108C	chr13	30107108	LTX046	C	A		4	7.09	2.78	7.67		2.40
LTX046:21:27071135C	chr21	27071135	LTX046	C	A		4	6.05	2.26	6.86		2.28
LTX046:1:237754064C	chr1	237754064	LTX046	C	T		4	6.34	2.33	5.48		2.26
LTX046:17:19261251C	chr17	19261251	LTX046	C	T		4	13.65	3.53	11.14		2.87
LTX046:10:15121020G	chr10	15121020	LTX046	G	T		4	4.09	1.03	6.75		1.69
LTX046:11:78574162C	chr11	78574162	LTX046	C	A		4	3.82	0.96	5.54		1.39
LTX036:17:7579398C	chr17	7579398	LTX036	C	A		1	39.88	28.49	43.95		18.87
LTX036:19:1220502G	chr19	1220502	LTX036	G	T		1	54.55	21.91	40.91		15.56
LTX036:12:133256551C	chr12	133256551	LTX036	C	A		2	32.69	18.90	38.74		13.34
LTX036:18:22805714C	chr18	22805714	LTX036	C	T		2	26.47	15.87	26.63		9.50
LTX036:1:19018437C	chr1	19018437	LTX036	C	A		2	13.77	4.32	15.49		2.81
LTX036:11:108186565A	chr11	108186565	LTX036	A	T		1	15.20	8.38	14.05		5.40
LTX036:11:55798386C	chr11	55798386	LTX036	C	A		4	15.92	8.26	11.38		4.61
LTX036:16:4933402C	chr16	4933402	LTX036	C	A		4	34.42	19.91	33.77		11.48

LTX036:19:56539619C	chr19	56539619	LTX036	C	G	4	22.22	14.40	19.70	6.97	
LTX036:2:39559089T	chr2	39559089	LTX036	T	G	4	6.56	1.39	5.26	0.72	
LTX036:17:48252792G	chr17	48252792	LTX036	G	T	4	9.33	2.15	7.63	1.02	
LTX036:10:7262401C	chr10	7262401	LTX036	C	A	4	8.29	1.88	9.76	1.30	
LTX036:2:128774019C	chr2	128774019	LTX036	C	A	4	5.96	1.26	5.26	0.68	
LTX036:7:49815508C	chr7	49815508	LTX036	C	A	4	6.63	1.33	6.48	0.90	
LTX036:9:135983408A	chr9	135983408	LTX036	A	C	3	13.10	6.28	14.13	4.50	
LTX036:6:2895637T	chr6	2895637	LTX036	T	A	4	11.93	6.55	12.89	4.42	
LTX036:1:193150241G	chr1	193150241	LTX036	G	T	4	9.78	1.97	9.99	1.30	
LTX036:5:140187899A	chr5	140187899	LTX036	A	T	4	11.28	2.27	9.49	1.22	
LTX036:15:43694034A	chr15	43694034	LTX036	A	C	4	5.52	1.14	5.60	0.70	
LTX036:3:115439665A	chr3	115439665	LTX036	A	C	4	5.41	1.10	5.40	0.69	
LTX022:17:7578190T	chr17	7578190	LTX022	T	C	1	31.41	18.32	24.62	8.12	
LTX022:18:22807056C	chr18	22807056	LTX022	C	A	2	18.95	9.95	16.96	4.82	
LTX022:4:187532858C	chr4	187532858	LTX022	C	A	2	13.71	7.57	14.76	4.42	
LTX022:5:176710869A	chr5	176710869	LTX022	A	T	2	11.45	4.35	13.02	2.61	
LTX022:8:88365909G	chr8	88365909	LTX022	G	T	2	11.16	6.40	12.60	3.70	
LTX022:9:97887448C	chr9	97887448	LTX022	C	A	1	11.11	6.71	10.46	3.26	
LTX022:18:47802230C	chr18	47802230	LTX022	C	A	2	19.93	16.34	10.45	4.12	
LTX022:18:47800615C	chr18	47800615	LTX022	C	A	2	18.14	12.77	9.92	3.09	
LTX022:16:14024630C	chr16	14024630	LTX022	C	A	2	9.66	5.95	9.63	3.37	
LTX022:12:129559276C	chr12	129559276	LTX022	C	T	4	10.32	6.15	10.20	3.37	
LTX022:1:247836132G	chr1	247836132	LTX022	G	T	4	28.96	18.76	30.25	10.09	
LTX022:7:117432761C	chr7	117432761	LTX022	C	A	4	16.55	11.28	10.70	4.13	
LTX022:6:155153840A	chr6	155153840	LTX022	A	G	4	10.57	6.35	12.50	4.02	
LTX022:5:167645878T	chr5	167645878	LTX022	T	G	4	22.29	13.20	18.56	6.54	

LTX022:9:35714237T	chr9	35714237	LTX022	T	C	4	6.68	2.30	6.48		1.28
LTX022:9:123220803C	chr9	123220803	LTX022	C	G	4	11.63	4.40	13.04		2.44
LTX022:19:6732134C	chr19	6732134	LTX022	C	G	4	3.31	1.10	5.29		0.88
LTX022:8:70674006G	chr8	70674006	LTX022	G	T	4	11.44	4.33	8.33		1.71
LTX022:2:1168816T	chr2	1168816	LTX022	T	C	4	8.41	3.31	8.28		1.72
LTX022:9:95841793G	chr9	95841793	LTX022	G	C	4	5.74	1.93	5.85		0.98
LTX049:12:25398284C	chr12	25398284	LTX049	C	A	1	41.06	35.59	36.38		30.76
LTX049:1:3313149G	chr1	3313149	LTX049	G	T	2	31.47	23.04	31.03		18.20
LTX049:19:11152100A	chr19	11152100	LTX049	A	T	1	35.66	30.90	30.30		24.57
LTX049:15:88680726C	chr15	88680726	LTX049	C	A	2	30.01	24.34	27.57		25.65
LTX049:12:46244010G	chr12	46244010	LTX049	G	C	2	24.95	21.38	25.84		22.23
LTX049:X:76939413T	chrX	76939413	LTX049	T	A	1	21.94	16.53	23.11		16.27
LTX049:16:2121841G	chr16	2121841	LTX049	G	T	1	28.57	18.83	18.25		14.68
LTX049:X:48547447C	chrX	48547447	LTX049	C	A	2	26.39	16.32	14.42		11.59
LTX049:3:57457248C	chr3	57457248	LTX049	C	A	2	18.09	15.77	13.95		13.24
LTX049:19:10897345C	chr19	10897345	LTX049	C	A	1	9.45	5.71	9.67		6.68
LTX049:3:128200113G	chr3	128200113	LTX049	G	A	2	7.41	5.43	8.97		5.85
LTX049:20:51870588G	chr20	51870588	LTX049	G	T	4	28.71	24.20	27.32		22.60
LTX049:2:116520170C	chr2	116520170	LTX049	C	G	4	24.38	20.40			
LTX049:21:47987434G	chr21	47987434	LTX049	G	T	4	11.58	10.26	11.31		9.25
LTX049:17:72519788C	chr17	72519788	LTX049	C	A	4	41.50	36.29	34.77		30.01
LTX049:8:9437749C	chr8	9437749	LTX049	C	G	4	8.93	4.46	8.02		4.19
LTX049:12:111953997C	chr12	111953997	LTX049	C	A	4	10.03	5.01	10.63		5.32
LTX049:8:52323848C	chr8	52323848	LTX049	C	A	4	8.25	5.66	6.13		4.14
LTX049:3:129370350C	chr3	129370350	LTX049	C	G	4	6.48	3.24	6.51		3.26
LTX063:9:135982591C	chr9	135982591	LTX063	C	A	2	46.35	33.79	42.62		27.57

LTX063:17:7578263G	chr17	7578263	LTX063	G	A		1	31.73	25.70	28.12		18.90
LTX063:3:57430962G	chr3	57430962	LTX063	G	A		2	24.98	18.28	26.50		15.76
LTX063:1:27102068G	chr1	27102068	LTX063	G	T		1	20.84	16.05	16.97		10.07
LTX063:16:65016009C	chr16	65016009	LTX063	C	G		2	14.42	9.08	16.04		7.56
LTX063:11:32449506T	chr11	32449506	LTX063	T	A		1	33.33	16.20	14.14		8.83
LTX063:15:74326870C	chr15	74326870	LTX063	C	T		2	10.84	4.74	12.98		3.55
LTX063:7:50450378C	chr7	50450378	LTX063	C	G		2	8.04	3.18	11.19		2.81
LTX063:16:15811171C	chr16	15811171	LTX063	C	T		2	9.30	4.02	8.96		3.45
LTX063:10:50732500C	chr10	50732500	LTX063	C	A		4	20.46	15.25	18.49		11.98
LTX063:7:31144522A	chr7	31144522	LTX063	A	C		4	20.44	15.43	20.06		11.93
LTX063:10:108378016C	chr10	108378016	LTX063	C	A		4	20.00	14.51	16.57		9.65
LTX063:2:73302776C	chr2	73302776	LTX063	C	A		4	15.66	10.63	22.49		10.08
LTX063:12:125298872C	chr12	125298872	LTX063	C	A		4	19.75	14.66	20.45		10.26
LTX063:10:70332109G	chr10	70332109	LTX063	G	A		4	10.51	4.47	9.54		4.21
LTX063:8:144812392C	chr8	144812392	LTX063	C	T		4	2.33	0.47	7.87		2.93
LTX063:6:26508774T	chr6	26508774	LTX063	T	A		4	10.29	4.28	8.78		3.23
LTX063:2:11770074C	chr2	11770074	LTX063	C	A		4	9.67	4.21	7.51		2.90
LTX063:19:15511627G	chr19	15511627	LTX063	G	T		4	9.87	4.09	9.11		3.36
LTX063:7:49815709G	chr7	49815709	LTX063	G	C		4	9.20	3.41	7.60		2.53
LTX144:22:41566508G	chr22	41566508	LTX144	G	A		1	22.71	7.68	23.39		8.00
LTX144:11:69465952C	chr11	69465952	LTX144	C	T		2	26.67	8.89	19.83		6.72
LTX144:7:50459535A	chr7	50459535	LTX144	A	T		2	10.17	3.39	8.97		2.99
LTX144:7:98588208C	chr7	98588208	LTX144	C	T		2	7.30	2.45	7.46		2.49
LTX144:17:29664428C	chr17	29664428	LTX144	C	G		1	5.99	2.00	6.36		2.12
LTX144:4:3201640G	chr4	3201640	LTX144	G	T		4	29.01	27.16	32.37		26.89
LTX144:1:186303604T	chr1	186303604	LTX144	T	A		3	10.54	3.51	7.98		2.66

LTX144:13:110844627G	chr13	110844627	LTX144	G	T	4	6.21	2.07	8.99	3.00	
LTX144:3:183957527C	chr3	183957527	LTX144	C	A	4	7.61	2.58	5.62	1.87	
LTX144:10:49944072C	chr10	49944072	LTX144	C	G	4	26.77	8.93	26.06	8.78	
LTX144:X:130220369T	chrX	130220369	LTX144	T	A	4	37.55	12.53	34.41	11.47	
LTX144:2:84864406C	chr2	84864406	LTX144	C	A	4	27.12	16.23	28.22	16.85	
LTX144:7:131864446C	chr7	131864446	LTX144	C	A	4	23.41	13.91	24.07	13.36	
LTX144:16:1812912C	chr16	1812912	LTX144	C	G	4	24.49	11.61	23.01	13.50	
LTX144:6:345914C	chr6	345914	LTX144	C	A	4	11.19	3.82	9.58	3.23	
LTX144:22:50688115C	chr22	50688115	LTX144	C	G	4	9.57	3.19	21.35	7.25	
LTX144:7:134618237A	chr7	134618237	LTX144	A	C	4	18.93	6.31	17.25	5.75	
LTX144:2:44459475C	chr2	44459475	LTX144	C	A	4	6.26	2.09	7.10	2.37	
LTX144:2:162762359C	chr2	162762359	LTX144	C	G	4	6.19	2.06	6.48	2.16	
LTX038:14:51196324G	chr14	51196324	LTX038	G	A	1	64.73	44.76	61.97	41.66	
LTX038:1:65332716C	chr1	65332716	LTX038	C	A	2	49.19	14.44	48.18	13.87	
LTX038:16:4836063G	chr16	4836063	LTX038	G	C	2	38.31	10.38	37.54	10.20	
LTX038:2:178098810C	chr2	178098810	LTX038	C	G	1	38.82	26.77	36.67	25.58	
LTX038:9:134010388A	chr9	134010388	LTX038	A	T	2	33.74	26.34	33.84	25.08	
LTX038:11:69456203C	chr11	69456203	LTX038	C	G	2	16.33	2.56	31.43	5.15	
LTX038:1:27106535G	chr1	27106535	LTX038	G	A	1	25.00	7.41	25.96	7.78	
LTX038:12:131276458G	chr12	131276458	LTX038	G	T	2	18.18	5.41	17.48	4.43	
LTX038:9:139413985C	chr9	139413985	LTX038	C	T	2	5.65	0.81	15.07	2.21	
LTX038:X:76939312G	chrX	76939312	LTX038	G	A	2	12.17	1.74	14.62	2.09	
LTX038:3:37061826G	chr3	37061826	LTX038	G	A	1	12.11	1.75	11.56	1.65	
LTX038:4:55980381G	chr4	55980381	LTX038	G	A	2	9.20	3.08	9.93	3.23	
LTX038:1:198700816G	chr1	198700816	LTX038	G	C	2	7.88	1.13	8.62	1.23	
LTX038:12:464400C	chr12	464400	LTX038	C	T	2	5.05	0.75	5.40	0.78	

LTX038:1:158576657G	chr1	158576657	LTX038	G	T		4	56.61	37.08	57.90		36.89
LTX038:X:88008704C	chrX	88008704	LTX038	C	A		4	74.72	55.50	68.22		48.89
LTX038:3:64132613C	chr3	64132613	LTX038	C	A		4	61.63	43.95	55.49		39.15
LTX038:6:17772153G	chr6	17772153	LTX038	G	C		4	5.85	0.84	6.07		0.90
LTX038:5:169020496A	chr5	169020496	LTX038	A	C		4	8.04	1.15	6.45		0.92
LTX038:15:71276480G	chr15	71276480	LTX038	G	T		4	8.52	1.22	5.24		0.75
LTX034:3:52436393G	chr3	52436393	LTX034	G	A		1	48.42	44.82	34.38		30.53
LTX034:7:148508719C	chr7	148508719	LTX034	C	T		2	27.37	24.76	30.42		25.82
LTX034:17:7578535T	chr17	7578535	LTX034	T	C		1	20.70	10.40	16.33		8.17
LTX034:13:48955550C	chr13	48955550	LTX034	C	T		1	5.27	2.78	6.17		3.09
LTX034:6:84895087G	chr6	84895087	LTX034	G	A		4	26.93	24.51	27.84		23.95
LTX034:X:125298988C	chrX	125298988	LTX034	C	G		4	32.21	25.17	31.81		26.47
LTX034:14:104639409C	chr14	104639409	LTX034	C	T		4	19.23	15.17	17.44		16.10
LTX034:X:78010800G	chrX	78010800	LTX034	G	A		4	21.22	17.80	19.97		16.96
LTX034:3:142735152A	chr3	142735152	LTX034	A	C		4	27.35	24.76	23.17		22.91
LTX034:16:88501136T	chr16	88501136	LTX034	T	C		4	22.22	11.11	21.95		10.98
LTX034:15:75692456C	chr15	75692456	LTX034	C	A		4	6.18	3.10	6.77		3.39
LTX034:12:56827393T	chr12	56827393	LTX034	T	A		4	4.98	2.51	6.64		3.32
LTX034:10:70646154G	chr10	70646154	LTX034	G	A		4	7.74	3.95	5.42		2.80
LTX034:5:138456816G	chr5	138456816	LTX034	G	A		4	6.72	3.40	8.16		4.08
LTX034:17:75471896G	chr17	75471896	LTX034	G	A		4	7.82	3.91	6.57		3.29
LTX034:12:118610456C	chr12	118610456	LTX034	C	A		4	6.66	3.33	5.71		2.86
LTX034:3:135870296C	chr3	135870296	LTX034	C	T		4	8.50	6.53	8.50		6.23
LTX034:3:160395441C	chr3	160395441	LTX034	C	A		4	7.69	5.57	6.10		5.31
LTX013:9:133730371A	chr9	133730371	LTX013	A	G		2	7.90	4.85	7.75		3.99
LTX013:5:15937258G	chr5	15937258	LTX013	G	A		4	22.32	13.27	25.19		10.79

LTX013:2:152403968C	chr2	152403968	LTX013	C	T	4	7.44	4.52	6.72	3.39	
LTX013:X:114141751C	chrX	114141751	LTX013	C	T	4	13.32	6.33	13.18	4.27	
LTX013:6:13316860G	chr6	13316860	LTX013	G	C	4	8.97	5.73	6.45	3.17	
LTX013:3:183994479T	chr3	183994479	LTX013	T	C	4	13.23	8.86	18.71	8.84	
LTX013:10:105147056C	chr10	105147056	LTX013	C	T	4	20.94	13.15	18.35	9.85	
LTX013:17:18154751C	chr17	18154751	LTX013	C	T	4	11.57	7.05	9.23	4.77	
LTX013:8:38205421T	chr8	38205421	LTX013	T	A	3	17.43	11.35	18.69	9.54	
LTX013:6:127768763T	chr6	127768763	LTX013	T	A	4	17.32	10.89	16.40	7.78	
LTX013:16:29706404C	chr16	29706404	LTX013	C	T	4	7.14	2.38	9.78	2.99	
LTX013:14:31592236G	chr14	31592236	LTX013	G	A	4	7.44	3.37	7.12	2.69	
LTX013:X:150348926G	chrX	150348926	LTX013	G	A	4	6.52	2.21	9.40	2.35	
LTX013:X:117044028C	chrX	117044028	LTX013	C	T	4	6.02	2.07	8.18	2.16	
LTX013:14:74988688C	chr14	74988688	LTX013	C	T	4	4.46	1.50	5.95	1.57	
LTX065:22:36702581C	chr22	36702581	LTX065	C	T	2	15.62	15.19	17.98	14.05	
LTX065:17:7577127C	chr17	7577127	LTX065	C	A	1	15.24	11.76	16.36	10.73	
LTX065:5:86629154G	chr5	86629154	LTX065	G	T	2	11.88	9.74	10.18	9.60	
LTX065:13:103385643A	chr13	103385643	LTX065	A	C	4	15.91	11.39	15.78	9.77	
LTX065:2:73679889G	chr2	73679889	LTX065	G	T	4	12.33	10.71	11.29	9.81	
LTX065:11:64360338G	chr11	64360338	LTX065	G	T	4	13.49	10.73	10.66	8.61	
LTX065:5:150133163G	chr5	150133163	LTX065	G	T	4	13.31	10.47	11.80	9.44	
LTX065:13:103390487G	chr13	103390487	LTX065	G	T	4	16.04	11.45	14.95	10.42	
LTX065:16:48209286G	chr16	48209286	LTX065	G	T	4	15.47	12.63	10.59	9.24	
LTX065:14:101347192C	chr14	101347192	LTX065	C	T	4	28.30	26.49	12.18	11.16	
LTX065:4:109674077C	chr4	109674077	LTX065	C	A	4	12.31	9.70	10.00	9.47	
LTX065:20:4837662C	chr20	4837662	LTX065	C	T	4	10.61	9.33	14.64	10.37	
LTX065:6:51523873T	chr6	51523873	LTX065	T	A	4	6.65	5.73	6.40	5.48	

LTX065:13:96530052C	chr13	96530052	LTX065	C	A	4	5.51	4.93	5.09		4.33
LTX065:2:220283462T	chr2	220283462	LTX065	T	A	4	2.78	1.74	5.01		3.65
LTX149:X:53239876G	chrX	53239876	LTX149	G	A	1	77.92	75.62	75.00		71.00
LTX149:16:3786719G	chr16	3786719	LTX149	G	A	2	52.05	46.41	45.55		41.80
LTX149:6:117647416C	chr6	117647416	LTX149	C	T	2	44.74	43.68	43.61		41.05
LTX149:1:160136469G	chr1	160136469	LTX149	G	T	4	61.20	60.26	57.15		55.85
LTX149:11:17629929C	chr11	17629929	LTX149	C	T	4	16.92	15.74	33.96		31.26
LTX149:2:201462193A	chr2	201462193	LTX149	A	G	4	42.04	40.38	45.22		39.88
LTX149:8:117950562G	chr8	117950562	LTX149	G	T	4	28.36	20.89	34.98		30.23
LTX149:16:49669770C	chr16	49669770	LTX149	C	T	4	66.67	53.74	43.45		42.24
LTX149:19:3783189C	chr19	3783189	LTX149	C	T	4	42.36	41.44	43.12		41.00
LTX149:14:70633968G	chr14	70633968	LTX149	G	T	4	43.81	42.76	39.02		36.84
LTX149:6:50791187C	chr6	50791187	LTX149	C	A	4	42.86	30.49	37.55		35.16
LTX149:20:62837060G	chr20	62837060	LTX149	G	A	4	30.26	29.15	30.47		27.78
LTX149:11:47200023C	chr11	47200023	LTX149	C	G	4	31.03	26.83	26.72		25.87
LTX149:3:52087959T	chr3	52087959	LTX149	T	G	4	10.20	2.55	10.22		2.56
LTX149:3:101520185A	chr3	101520185	LTX149	A	G	4	9.41	2.39	8.48		2.12
LTX149:15:40763898G	chr15	40763898	LTX149	G	T	4	25.00	6.25	7.00		1.75
LTX149:10:134161560C	chr10	134161560	LTX149	C	T	4	2.76	0.75	5.48		1.49
LTX102:8:30948434T	chr8	30948434	LTX102	T	A	1	41.20	31.96	42.83		29.80
LTX102:8:118847703C	chr8	118847703	LTX102	C	G	1	25.08	20.35	26.32		18.38
LTX102:12:25398284C	chr12	25398284	LTX102	C	A	1	31.87	24.23	22.77		19.82
LTX102:7:138603666A	chr7	138603666	LTX102	A	G	2	24.60	6.16	22.59		5.65
LTX102:17:7577538C	chr17	7577538	LTX102	C	T	1	19.11	4.84	18.82		4.71
LTX102:12:49416133G	chr12	49416133	LTX102	G	A	1	24.80	6.22	18.70		4.68
LTX102:9:132963250G	chr9	132963250	LTX102	G	T	4	29.56	24.43	23.62		18.30

LTX102.1:156883232G	chr1	156883232	LTX102	G	T	4	27.54	21.86	23.40	17.44	
LTX102.8:52721778C	chr8	52721778	LTX102	C	A	4	47.60	34.43	47.46	30.36	
LTX102.13:33109925C	chr13	33109925	LTX102	C	A	4	44.74	27.57	38.76	24.59	
LTX102.11:92714903T	chr11	92714903	LTX102	T	A	4	25.30	19.91	27.20	20.63	
LTX102.12:49361733C	chr12	49361733	LTX102	C	G	4	36.18	24.25	40.00	28.84	
LTX102.15:77425561C	chr15	77425561	LTX102	C	A	4	19.12	4.78	16.12	4.03	
LTX102.15:33855180A	chr15	33855180	LTX102	A	C	4	20.44	5.15	15.42	3.86	
LTX102.18:51731448A	chr18	51731448	LTX102	A	C	4	7.70	1.92	8.36	2.09	
LTX102.6:90398306G	chr6	90398306	LTX102	G	C	4	16.71	4.18	14.29	3.57	
LTX102.19:4488790G	chr19	4488790	LTX102	G	C	4	28.89	7.22	26.49	6.62	
LTX102.9:17135350A	chr9	17135350	LTX102	A	T	4	14.29	3.96	26.86	6.80	
LTX102.9:17135349G	chr9	17135349	LTX102	G	T	4	14.29	3.57	26.19	6.55	
LTX102.11:85459443T	chr11	85459443	LTX102	T	A	4	26.14	9.56	24.15	8.50	
LTX015.3:186501407G	chr3	186501407	LTX015	G	T	2	75.22	70.72	72.52	66.46	
LTX015.18:61262379G	chr18	61262379	LTX015	G	T	2	53.60	46.33	51.19	44.72	
LTX015.17:7578394T	chr17	7578394	LTX015	T	C	1	56.13	45.14	48.91	43.36	
LTX015.16:2014284G	chr16	2014284	LTX015	G	A	2	39.35	26.26	40.70	22.48	
LTX015.3:178917564T	chr3	178917564	LTX015	T	C	2	29.97	27.76	29.45	27.52	
LTX015.13:49027177C	chr13	49027177	LTX015	C	T	2	18.83	5.86	15.19	5.05	
LTX015.2:10350625G	chr2	10350625	LTX015	G	T	4	34.97	29.85	33.65	26.72	
LTX015.3:130285569G	chr3	130285569	LTX015	G	T	4	39.54	36.08	37.83	35.16	
LTX015.8:104388139G	chr8	104388139	LTX015	G	T	4	51.03	35.30	48.23	32.48	
LTX015.19:52568449G	chr19	52568449	LTX015	G	T	4	17.28	5.41	15.33	5.14	
LTX015.22:32894496T	chr22	32894496	LTX015	T	A	4	19.66	9.50	18.48	8.79	
LTX015.12:71898461G	chr12	71898461	LTX015	G	T	4	16.62	7.53	14.86	7.00	
LTX015.8:94935116G	chr8	94935116	LTX015	G	C	4	12.04	3.35	8.29	2.18	

LTX015:3:193120500A	chr3	193120500	LTX015	A	C	4	7.59	2.31	6.51		2.07
LTX015:14:70246051G	chr14	70246051	LTX015	G	T	4	17.07	7.85	11.64		5.73
LTX015:11:6790165C	chr11	6790165	LTX015	C	A	4	19.32	9.75	16.80		8.17
LTX015:4:71066286C	chr4	71066286	LTX015	C	G	3	9.98	2.64	9.11		2.37
LTX015:5:7626280A	chr5	7626280	LTX015	A	T	4	8.60	2.38	7.82		2.04
LTX015:17:10354175C	chr17	10354175	LTX015	C	G	4	15.44	5.04	13.28		4.01
LTX074:17:7578206T	chr17	7578206	LTX074	T	C	1	22.14	17.31	24.34		16.25
LTX074:10:89717615C	chr10	89717615	LTX074	C	T	1	24.42	22.69	23.54		21.05
LTX074:9:5069164A	chr9	5069164	LTX074	A	G	2	21.33	17.98	22.54		16.80
LTX074:3:47139542G	chr3	47139542	LTX074	G	A	1	20.39	11.57	21.25		11.31
LTX074:20:31023115G	chr20	31023115	LTX074	G	T	2	16.59	13.95	16.99		14.57
LTX074:12:49420108C	chr12	49420108	LTX074	C	G	1	18.30	15.33	16.38		14.07
LTX074:1:150935141G	chr1	150935141	LTX074	G	C	2	9.55	4.70	8.70		3.97
LTX074:19:47424096C	chr19	47424096	LTX074	C	G	2	4.70	2.33	5.07		2.21
LTX074:20:57829494C	chr20	57829494	LTX074	C	G	4	17.48	14.17	18.41		14.06
LTX074:17:76490183C	chr17	76490183	LTX074	C	G	4	0.44	0.21	17.41		13.91
LTX074:1:33272142C	chr1	33272142	LTX074	C	G	4	5.49	2.50	5.53		1.78
LTX074:16:27374243G	chr16	27374243	LTX074	G	T	4	4.10	1.98	5.37		2.31
LTX074:4:1806572T	chr4	1806572	LTX074	T	G	3	14.43	7.06	8.76		3.20
LTX074:8:134145841G	chr8	134145841	LTX074	G	C	4	4.67	2.24	6.31		2.52
LTX074:12:110956536C	chr12	110956536	LTX074	C	G	4	6.16	1.55	6.74		1.69
LTX074:12:120741431C	chr12	120741431	LTX074	C	A	4	10.97	2.75	10.95		2.74
LTX074:7:107706249A	chr7	107706249	LTX074	A	T	4	16.25	8.75	14.97		8.41
LTX074:19:3611966G	chr19	3611966	LTX074	G	C	4	43.90	21.55	18.51		9.69
LTX074:17:29653132C	chr17	29653132	LTX074	C	G	3	10.75	2.69	10.38		2.60
LTX075:7:55259515T	chr7	55259515	LTX075	T	G	1	83.94	81.34	81.78		80.80

LTX075:17:7578403C	chr17	7578403	LTX075	C	A	1	33.53	33.20	36.12		30.82	
LTX075:X:47040716G	chrX	47040716	LTX075	G	T	2	43.40	37.51	35.29		34.02	
LTX075:X:47039288T	chrX	47039288	LTX075	T	G	2	28.54	27.40	31.16		29.37	
LTX075:18:8376593G	chr18	8376593	LTX075	G	A	4	12.12	6.95	15.83		8.74	
LTX075:12:49949724C	chr12	49949724	LTX075	C	G	4	30.53	29.63	29.14		27.50	
LTX075:20:2840714C	chr20	2840714	LTX075	C	T	4	24.68	23.91	22.53		21.46	
LTX075:2:223787502C	chr2	223787502	LTX075	C	A	3	24.74	24.28	19.94		19.59	
LTX075:20:31676821G	chr20	31676821	LTX075	G	A	4	24.88	24.69	26.24		25.92	
LTX075:17:47010696G	chr17	47010696	LTX075	G	C	4	25.43	23.31	23.72		20.37	
LTX075:17:37571363G	chr17	37571363	LTX075	G	C	4	10.14	5.07	9.19		4.60	
LTX075:12:116457705C	chr12	116457705	LTX075	C	T	4	8.80	4.42	7.89		3.95	
LTX075:17:3717712C	chr17	3717712	LTX075	C	T	4	6.59	3.31	7.82		3.91	
LTX075:4:146653666G	chr4	146653666	LTX075	G	C	4	16.31	8.16	7.05		3.53	
LTX075:3:172065111G	chr3	172065111	LTX075	G	C	4	3.90	1.95	5.34		2.67	
LTX075:10:127843807G	chr10	127843807	LTX075	G	A	4	20.46	15.61	15.43		12.16	
LTX075:6:105609358A	chr6	105609358	LTX075	A	G	4	13.96	8.98	12.97		8.61	
LTX075:1:247654898T	chr1	247654898	LTX075	T	C	4	9.47	7.19	9.88		7.64	
LTX075:14:92588089G	chr14	92588089	LTX075	G	T	4	23.95	18.58	9.69		6.78	
LTX206:5:112173860G	chr5	112173860	LTX206	G	T	1	52.66	41.82				
LTX206:6:106552983C	chr6	106552983	LTX206	C	A	1	38.14	29.66				
LTX206:7:140453155C	chr7	140453155	LTX206	C	T	1	33.86	27.54				
LTX206:17:7578475G	chr17	7578475	LTX206	G	A	1	34.56	29.50				
LTX206:17:7577548C	chr17	7577548	LTX206	C	A	1	32.93	27.41				
LTX206:19:47424411G	chr19	47424411	LTX206	G	T	2	33.10	28.67				
LTX206:12:25398285C	chr12	25398285	LTX206	C	A	1	0.00	0.00				
LTX206:12:66839174C	chr12	66839174	LTX206	C	A	4	35.03	28.45				

LTX206:11:113650655G	chr11	113650655	LTX206	G	T		4	39.18	29.08			
LTX206:5:82833213C	chr5	82833213	LTX206	C	A		4	33.35	27.70			
LTX206:13:88328070C	chr13	88328070	LTX206	C	A		4	47.63	38.02			
LTX206:22:44004420C	chr22	44004420	LTX206	C	A		4	34.69	28.92			
LTX206:3:165548547G	chr3	165548547	LTX206	G	T		4	33.94	29.84			
LTX206:8:24251659T	chr8	24251659	LTX206	T	C		4	52.30	40.89			
LTX206:3:121712805G	chr3	121712805	LTX206	G	C		4	0.00	0.00			
LTX206:13:103390783G	chr13	103390783	LTX206	G	T		4	9.35	3.12			
LTX206:1:216144041C	chr1	216144041	LTX206	C	T		4	7.86	2.65			
LTX206:4:30921862G	chr4	30921862	LTX206	G	C		4	4.31	1.44			
LTX206:16:30510661C	chr16	30510661	LTX206	C	T		4	4.75	1.59			
LTX033:17:7577082C	chr17	7577082	LTX033	C	T		1	78.63	61.29	78.34		59.34
LTX033:19:10600447G	chr19	10600447	LTX033	G	A		2	46.56	36.29	42.34		34.15
LTX033:17:4439438G	chr17	4439438	LTX033	G	A		4	95.45	77.58	80.73		58.91
LTX033:20:62165606G	chr20	62165606	LTX033	G	T		4	46.60	38.46	39.67		31.36
LTX033:1:152732873C	chr1	152732873	LTX033	C	A		4	42.24	30.36	32.42		23.24
LTX033:7:4947050G	chr7	4947050	LTX033	G	T		4	10.03	7.55	11.63		9.02
LTX033:17:7350222C	chr17	7350222	LTX033	C	A		4	66.57	46.85	81.45		60.38
LTX033:22:21167719G	chr22	21167719	LTX033	G	A		4	12.10	3.24	10.59		2.97
LTX033:3:100093927G	chr3	100093927	LTX033	G	T		4	6.22	1.75	8.55		2.24
LTX033:20:35862487T	chr20	35862487	LTX033	T	C		4	6.41	1.81	7.38		2.17
LTX033:2:26700580G	chr2	26700580	LTX033	G	A		4	4.13	1.36	6.32		1.93
LTX033:X:96684657G	chrX	96684657	LTX033	G	T		4	29.48	7.77	25.35		6.71
LTX033:13:38172799T	chr13	38172799	LTX033	T	C		4	8.71	2.19	9.40		2.35
LTX033:3:147121807C	chr3	147121807	LTX033	C	A		4	5.48	2.04	5.39		1.68
LTX033:9:35057128C	chr9	35057128	LTX033	C	T		4	3.70	1.80	5.30		1.60

LTX033:16:29791531G	chr16	29791531	LTX033	G	T	4	14.84	4.53	15.27		4.67	
LTX033:19:57286130C	chr19	57286130	LTX033	C	T	4	14.36	4.44	13.71		4.53	
LTX033:17:76134464G	chr17	76134464	LTX033	G	A	4	3.17	0.94	10.56		2.80	
LTX091:19:10602907G	chr19	10602907	LTX091	G	A	2	48.02	45.60	39.13		33.53	
LTX091:19:1220487G	chr19	1220487	LTX091	G	A	1	62.50	57.57	38.75		37.95	
LTX091:6:106555068G	chr6	106555068	LTX091	G	A	1	37.59	35.02	36.14		34.29	
LTX091:1:155874286A	chr1	155874286	LTX091	A	C	2	30.05	28.04	29.61		28.59	
LTX091:12:91449475A	chr12	91449475	LTX091	A	C	4	26.89	25.23	24.69		23.19	
LTX091:11:74800278G	chr11	74800278	LTX091	G	T	4	27.55	25.98	23.22		22.94	
LTX091:1:54675768C	chr1	54675768	LTX091	C	A	4	15.40	15.03	12.60		11.80	
LTX091:17:8045743A	chr17	8045743	LTX091	A	C	3	80.00	50.00	27.78		26.16	
LTX091:1:214170777G	chr1	214170777	LTX091	G	T	4	38.97	36.38	28.07		26.17	
LTX091:1:109859508C	chr1	109859508	LTX091	C	G	4	10.93	5.46	9.12		4.56	
LTX091:7:142988670G	chr7	142988670	LTX091	G	T	4	9.52	4.76	10.40		5.20	
LTX091:17:9559744C	chr17	9559744	LTX091	C	T	4	10.95	5.47	9.52		4.76	
LTX091:12:114380190A	chr12	114380190	LTX091	A	G	4	5.91	2.96	12.77		6.39	
LTX091:14:95562863T	chr14	95562863	LTX091	T	C	3	10.19	5.10	11.31		5.66	
LTX091:12:112668613G	chr12	112668613	LTX091	G	A	4	10.91	5.46	10.20		5.17	
LTX091:4:110791343C	chr4	110791343	LTX091	C	T	4	14.48	7.24	14.10		7.05	
LTX091:2:16082277G	chr2	16082277	LTX091	G	A	3	10.10	5.05	10.66		5.33	
LTX091:15:42980590C	chr15	42980590	LTX091	C	G	4	13.67	7.58	15.70		8.75	
LTX091:22:31592935C	chr22	31592935	LTX091	C	T	4	16.98	9.11	13.37		7.41	
LTX076:4:187521078C	chr4	187521078	LTX076	C	T	2	41.78	35.90	53.46		43.66	
LTX076:17:7577090C	chr17	7577090	LTX076	C	G	1	41.58	34.67	44.19		37.59	
LTX076:12:133225515C	chr12	133225515	LTX076	C	A	2	33.14	19.86	27.54		17.36	
LTX076:14:21868192G	chr14	21868192	LTX076	G	A	2	16.83	15.04	17.47		14.02	

LTX076:14:21868191T	chr14	21868191	LTX076	T	A		2	16.89	15.07	16.96		14.22
LTX076:6:138199630C	chr6	138199630	LTX076	C	T		1	6.18	1.56	6.73		1.68
LTX076:16:4043420T	chr16	4043420	LTX076	T	A		4	39.20	33.77	39.88		35.63
LTX076:7:98574134T	chr7	98574134	LTX076	T	A		3	47.67	41.12	53.08		46.35
LTX076:11:18434326G	chr11	18434326	LTX076	G	T		4	21.52	20.38	38.00		33.50
LTX076:17:7416153G	chr17	7416153	LTX076	G	T		4	23.22	16.57	23.08		13.39
LTX076:11:119045783G	chr11	119045783	LTX076	G	A		4	33.33	20.24	20.18		14.60
LTX076:5:19838947C	chr5	19838947	LTX076	C	T		4	14.71	10.37	16.14		10.30
LTX076:19:45209082C	chr19	45209082	LTX076	C	T		4	6.11	4.21	5.62		3.71
LTX076:X:32482787C	chrX	32482787	LTX076	C	G		4	15.33	3.84	14.64		3.66
LTX076:2:228884112C	chr2	228884112	LTX076	C	A		4	12.92	3.23	11.20		2.80
LTX076:16:3656696T	chr16	3656696	LTX076	T	A		4	10.32	2.58	10.67		2.67
LTX076:10:104136546G	chr10	104136546	LTX076	G	A		4	8.95	2.26	9.76		2.44
LTX076:10:79595553C	chr10	79595553	LTX076	C	A		4	15.49	3.89	20.26		5.07
LTX076:8:72182032C	chr8	72182032	LTX076	C	G		4	5.87	1.47	6.13		1.53
LTX076:3:53125957G	chr3	53125957	LTX076	G	C		4	15.70	3.92	7.59		1.90
LTX076:3:129251434G	chr3	129251434	LTX076	G	A		4	13.99	3.54	16.58		4.15
LTX160:12:25398284C	chr12	25398284	LTX160	C	A		1	61.73	39.77	53.99		43.45
LTX160:19:47491255C	chr19	47491255	LTX160	C	T		2	15.39	9.03	14.39		8.98
LTX160:19:11138504G	chr19	11138504	LTX160	G	T		1	9.27	1.86	8.99		2.25
LTX160:7:97361937G	chr7	97361937	LTX160	G	C		4	13.39	6.16	19.00		10.86
LTX160:11:64622898T	chr11	64622898	LTX160	T	A		4	17.59	9.32	19.29		11.91
LTX160:10:43292571C	chr10	43292571	LTX160	C	A		4	18.98	9.56	14.00		9.38
LTX160:18:61602264G	chr18	61602264	LTX160	G	C		4	18.30	10.10	14.14		9.55
LTX160:7:150777840C	chr7	150777840	LTX160	C	A		4	50.00	19.80	27.45		18.02
LTX160:2:27601137C	chr2	27601137	LTX160	C	A		4	21.62	9.69	25.33		12.19

LTX160:22:21990773C	chr22	21990773	LTX160	C	T	4	17.51	9.49	21.71		13.60	
LTX160:4:8229319G	chr4	8229319	LTX160	G	A	4	40.00	11.45	13.25		10.18	
LTX160:5:140744399C	chr5	140744399	LTX160	C	T	4	14.60	6.37	18.27		10.49	
LTX160:12:29464049T	chr12	29464049	LTX160	T	C	4	17.87	3.59	14.29		3.57	
LTX160:10:46999601G	chr10	46999601	LTX160	G	A	4	100.00	29.00	22.14		5.54	
LTX160:15:24921526G	chr15	24921526	LTX160	G	T	4	15.72	3.20				
LTX160:11:104034545G	chr11	104034545	LTX160	G	T	4	20.99	4.20	21.62		5.41	
LTX160:11:66190163G	chr11	66190163	LTX160	G	A	4	16.04	3.28	13.97		3.49	
LTX160:4:66356134G	chr4	66356134	LTX160	G	A	4	17.06	6.33	19.51		8.35	
LTX160:20:2375907G	chr20	2375907	LTX160	G	T	4	10.13	4.10	13.58		7.37	
LTX103:17:7578406C	chr17	7578406	LTX103	C	T	1	13.29	11.18	17.02		12.06	
LTX103:14:51226846C	chr14	51226846	LTX103	C	T	2	5.51	4.63	5.17		4.24	
LTX103:12:56360899G	chr12	56360899	LTX103	G	C	4	5.85	5.11	6.71		4.88	
LTX103:1:154127373G	chr1	154127373	LTX103	G	C	4	13.75	11.61	7.71		6.69	
LTX103:14:96777916G	chr14	96777916	LTX103	G	C	4	5.85	4.80	5.81		5.37	
LTX103:19:34857281C	chr19	34857281	LTX103	C	A	4	7.82	5.69	8.10		5.10	
LTX103:X:84362885A	chrX	84362885	LTX103	A	G	4	12.85	10.94	14.18		10.19	
LTX103:10:96043655G	chr10	96043655	LTX103	G	T	4	4.15	3.24	12.90		6.57	
LTX103:19:10220867C	chr19	10220867	LTX103	C	T	4	16.67	10.27	10.91		5.99	
LTX103:20:25304046C	chr20	25304046	LTX103	C	T	4	5.90	5.11	6.00		4.14	
LTX103:16:30999142A	chr16	30999142	LTX103	A	G	4	0.00	0.00	6.85		1.71	
LTX103:7:94937446T	chr7	94937446	LTX103	T	C	4	0.02	0.01	6.41		1.81	
LTX103:1:171076966G	chr1	171076966	LTX103	G	A	4	0.06	0.04	5.43		1.36	
LTX029:17:7577121:G	chr17	7577121	LTX029	G	T	1	23.23	12.14	27.04		14.51	
LTX029:19:51768714:T	chr19	51768714	LTX029	T	A	4	16.43	16.26	19.88		19.19	
LTX029:17:21318932:C	chr17	21318932	LTX029	C	A	4	9.15	4.69	5.80		3.01	

LTX029:12:100489456:C	chr12	100489456	LTX029	C	A	4	20.08	19.89	16.54	16.36	
LTX029:1:79093680:T	chr1	79093680	LTX029	T	G	4	12.37	6.22	12.24	6.29	
LTX029:4:119174718:A	chr4	119174718	LTX029	A	T	4	12.45	6.26	13.30	6.65	
LTX029:1:97278352:G	chr1	97278352	LTX029	G	T	4	19.07	18.71	18.51	16.86	
LTX029:1:107867516:G	chr1	107867516	LTX029	G	A	4	12.97	6.49	11.68	5.84	
LTX029:12:14947611:G	chr12	14947611	LTX029	G	A	4	19.99	19.59	21.85	21.31	
LTX029:2:88874212:C	chr2	88874212	LTX029	C	T	4	5.95	2.99	6.02	3.01	
LTX029:11:4928801:G	chr11	4928801	LTX029	G	A	4	18.92	18.51	18.58	17.76	
LTX029:7:100350720:A	chr7	100350720	LTX029	A	T	5	18.31	17.99	20.17	19.60	
LTX029:11:64695830:C	chr11	64695830	LTX029	C	T	4	4.84	2.43	6.58	3.29	
LTX029:16:1691170:A	chr16	1691170	LTX029	A	G	4	21.10	20.60	20.88	20.74	
LTX029:21:27074569:C	chr21	27074569	LTX029	C	T	4	19.65	19.40	20.49	20.27	
LTX029:3:179294425:C	chr3	179294425	LTX029	C	T	4	0.04	0.03	14.77	8.07	
LTX029:17:62558920:C	chr17	62558920	LTX029	C	T	4	19.63	19.16	19.77	19.46	
LTX029:3:142383088:C	chr3	142383088	LTX029	C	T	5	12.02	6.01	9.76	4.88	
LTX029:11:2154783:G	chr11	2154783	LTX029	G	A	5	7.08	5.26	19.93	18.96	
LTX029:14:102484863:C	chr14	102484863	LTX029	C	T	5	18.25	9.32	19.55	9.77	
LTX060:6:157522016:G	chr6	157522016	LTX060	G	C	1	9.02	4.53	7.38	3.69	
LTX060:1:16237768:G	chr1	16237768	LTX060	G	C	1	21.89	17.61	21.81	17.74	
LTX060:12:394744:C	chr12	394744	LTX060	C	T	2	8.86	7.22	7.68	6.22	
LTX060:15:34649385:C	chr15	34649385	LTX060	C	T	2	18.07	15.00	15.20	13.54	
LTX060:22:31741348:C	chr22	31741348	LTX060	C	T	2	34.15	29.07	11.32	10.13	
LTX060:3:59999825:C	chr3	59999825	LTX060	C	G	2	10.50	5.26	11.72	5.86	
LTX060:2:29541185:C	chr2	29541185	LTX060	C	G	2	13.55	11.89	13.83	12.32	
LTX060:3:12633227:C	chr3	12633227	LTX060	C	G	2	4.95	3.91	6.71	5.72	
LTX060:3:105452857:C	chr3	105452857	LTX060	C	A	1	14.23	13.20	13.94	12.36	

LTX060:17:7578455:C	chr17	7578455	LTX060	C	G		1	34.04	29.86	41.06		32.34
LTX060:20:31021451:G	chr20	31021451	LTX060	G	T		1	5.49	2.75	5.25		2.63
LTX060:4:187557791:C	chr4	187557791	LTX060	C	A		2	24.76	20.65	27.59		22.40
LTX060:1:198721448:C	chr1	198721448	LTX060	C	G		1	5.90	4.97	5.40		4.55
LTX060:17:47677801:G	chr17	47677801	LTX060	G	C		2	10.78	8.45	13.28		10.18
LTX060:16:9857250:G	chr16	9857250	LTX060	G	C		3	6.23	5.09	6.55		4.95
LTX060:21:36265236:G	chr21	36265236	LTX060	G	C		3	16.62	11.87	14.83		11.87
LTX060:4:1952890:C	chr4	1952890	LTX060	C	G		3	21.14	17.72	19.66		15.71
LTX060:16:50741841:T	chr16	50741841	LTX060	T	A		4	3.46	3.24	5.07		3.59
LTX060:17:48918125:G	chr17	48918125	LTX060	G	C		4	14.40	13.25	12.72		12.21
LTX060:20:16348162:G	chr20	16348162	LTX060	G	C		4	14.11	10.55	15.58		10.95
LTX070:1:78425919:C	chr1	78425919	LTX070	C	T		1	12.81	6.41	9.78		4.89
LTX070:4:187524383:C	chr4	187524383	LTX070	C	A		2	32.71	27.14	28.70		25.44
LTX070:4:187629198:T	chr4	187629198	LTX070	T	A		2	29.51	24.94	30.63		25.76
LTX070:1:204494696:G	chr1	204494696	LTX070	G	T		2	28.09	14.29	25.46		13.14
LTX070:1:7737790:G	chr1	7737790	LTX070	G	C		2	46.33	40.54	48.21		42.34
LTX070:12:472154:T	chr12	472154	LTX070	T	C		2	22.98	11.58	22.67		11.33
LTX070:13:49039352:G	chr13	49039352	LTX070	G	T		1	28.83	24.94	25.40		24.26
LTX070:20:50092070:G	chr20	50092070	LTX070	G	C		2	11.85	5.93	10.26		5.13
LTX070:22:29092948:G	chr22	29092948	LTX070	G	A		1	62.55	54.03	61.65		53.46
LTX070:2:100175348:C	chr2	100175348	LTX070	C	A		2	23.43	22.65	25.56		21.07
LTX070:18:22806473:G	chr18	22806473	LTX070	G	A		2	9.98	8.63	10.54		8.85
LTX070:16:9858176:G	chr16	9858176	LTX070	G	T		2	30.75	23.01	32.52		22.17
LTX070:11:32414247:G	chr11	32414247	LTX070	G	T		1	31.41	26.69	31.39		26.50
LTX070:10:20106063:C	chr10	20106063	LTX070	C	A		4	11.58	5.79	10.20		5.10
LTX070:10:50690868:C	chr10	50690868	LTX070	C	A		4	28.78	23.54	26.32		20.41

LTX070.8:116599547:C	chr8	116599547	LTX070	C	A	4	36.69	30.71	34.92	30.24	
LTX070.5:89949375:G	chr5	89949375	LTX070	G	T	4	27.46	26.40	32.14	27.86	
LTX070.16:27544655:C	chr16	27544655	LTX070	C	A	4	27.36	25.36	29.61	26.20	
LTX070.11:4470680:T	chr11	4470680	LTX070	T	A	4	31.28	26.97	30.53	25.45	
LTX070.1:236911057:G	chr1	236911057	LTX070	G	T	4	29.88	26.15	25.93	22.30	
LTX079.8:41791615:C	chr8	41791615	LTX079	C	A	2	12.87	9.12	11.82	8.50	
LTX079.12:48388217:G	chr12	48388217	LTX079	G	T	1	7.80	5.74	7.27	4.97	
LTX079.18:61264439:G	chr18	61264439	LTX079	G	T	2	27.68	21.05	13.54	10.17	
LTX079.17:78319450:G	chr17	78319450	LTX079	G	T	2	6.20	4.53	8.54	6.41	
LTX079.19:54647194:A	chr19	54647194	LTX079	A	G	1	4.66	2.36	9.34	4.67	
LTX079.7:98506521:G	chr7	98506521	LTX079	G	A	2	13.28	8.53	12.44	9.06	
LTX079.6:128297917:T	chr6	128297917	LTX079	T	A	2	7.26	5.57	7.71	5.58	
LTX079.2:37129741:C	chr2	37129741	LTX079	C	A	2	7.79	5.44	8.60	6.14	
LTX079.1:186287889:T	chr1	186287889	LTX079	T	A	2	4.27	2.85	8.28	5.79	
LTX079.17:29665800:A	chr17	29665800	LTX079	A	T	1	7.44	5.23	6.97	4.91	
LTX079.2:42490337:G	chr2	42490337	LTX079	G	T	2	7.27	5.11	6.91	5.13	
LTX079.11:17741382:G	chr11	17741382	LTX079	G	T	2	10.00	5.00	7.51	5.89	
LTX079.18:42281430:C	chr18	42281430	LTX079	C	G	2	5.59	4.14	8.30	7.90	
LTX079.1:120512325:G	chr1	120512325	LTX079	G	T	2	8.59	8.06	6.93	6.46	
LTX079.5:86672323:C	chr5	86672323	LTX079	C	T	2	7.17	3.68	7.01	3.58	
LTX079.12:6701126:T	chr12	6701126	LTX079	T	A	2	7.50	5.44	6.93	5.26	
LTX079.7:73462038:T	chr7	73462038	LTX079	T	G	3	13.54	9.34	12.03	7.97	
LTX079.13:42481775:C	chr13	42481775	LTX079	C	A	4	8.15	6.00	7.07	5.05	
LTX079.11:120833322:G	chr11	120833322	LTX079	G	T	4	8.55	4.67	9.20	4.78	
LTX079.2:40656469:C	chr2	40656469	LTX079	C	A	4	7.14	5.13	7.50	5.52	
LTX083.19:10599912:C	chr19	10599912	LTX083	C	A	2	32.92	25.04	27.48	22.41	

LTX083:16:4837556:C	chr16	4837556	LTX083	C	T	2	21.75	15.32	15.37		12.26
LTX083:15:52664400:C	chr15	52664400	LTX083	C	A	2	14.39	12.77	10.60		10.34
LTX083:12:46233154:G	chr12	46233154	LTX083	G	T	1	13.61	9.96	12.29		9.95
LTX083:3:52443736:C	chr3	52443736	LTX083	C	T	1	20.88	10.44	14.19		7.48
LTX083:10:72358720:C	chr10	72358720	LTX083	C	T	1	10.12	5.66	6.16		3.24
LTX083:3:52437799:C	chr3	52437799	LTX083	C	A	1	18.81	9.44	17.34		8.84
LTX083:12:49444965:G	chr12	49444965	LTX083	G	A	2	9.16	4.59	6.61		3.39
LTX083:18:22807256:C	chr18	22807256	LTX083	C	A	2	24.44	19.52	20.95		17.65
LTX083:12:48377902:C	chr12	48377902	LTX083	C	A	1	15.54	10.85	9.86		8.99
LTX083:12:115120894:G	chr12	115120894	LTX083	G	C	2	16.67	8.33	23.71		19.61
LTX083:15:88483862:C	chr15	88483862	LTX083	C	A	2	24.91	16.57	26.19		18.16
LTX083:5:158140041:C	chr5	158140041	LTX083	C	G	2	20.89	18.43	19.37		14.76
LTX083:15:42042784:C	chr15	42042784	LTX083	C	T	2	8.64	7.15	8.56		7.87
LTX083:14:51219327:T	chr14	51219327	LTX083	T	G	2	9.51	8.84	7.82		6.66
LTX083:11:111229572:C	chr11	111229572	LTX083	C	T	2	9.24	4.65	7.58		3.79
LTX083:15:41988393:G	chr15	41988393	LTX083	G	C	3	5.04	2.52	5.34		2.67
LTX083:19:50666043:G	chr19	50666043	LTX083	G	C	4	7.33	4.51	6.90		5.23
LTX083:3:54919567:A	chr3	54919567	LTX083	A	T	4	19.65	14.44	16.51		12.03
LTX083:1:201618085:C	chr1	201618085	LTX083	C	G	4	30.43	24.15	13.31		9.68
LTX100:7:134893553:A	chr7	134893553	LTX100	A	C	4	16.45	10.41	20.59		12.40
LTX100:5:169310121:G	chr5	169310121	LTX100	G	T	4	46.97	29.36	50.57		31.46
LTX100:18:52586536:G	chr18	52586536	LTX100	G	C	4	47.88	29.96	45.73		28.22
LTX100:11:2161400:G	chr11	2161400	LTX100	G	T	4	32.00	22.25	39.44		24.95
LTX100:9:138011488:G	chr9	138011488	LTX100	G	T	4	45.76	29.12	44.02		27.40
LTX100:11:64126738:G	chr11	64126738	LTX100	G	C	4	20.00	17.14	44.26		28.38
LTX100:12:72893294:T	chr12	72893294	LTX100	T	A	4	36.84	23.24	36.81		23.83

LTX100:14:65398870:G	chr14	65398870	LTX100	G	T	4	37.34	23.62	35.31	23.21	
LTX100:8:39502888:C	chr8	39502888	LTX100	C	A	4	54.47	37.69	52.51	34.67	
LTX100:4:41016238:C	chr4	41016238	LTX100	C	A	4	37.01	24.08	31.82	20.34	
LTX100:1:35370902:G	chr1	35370902	LTX100	G	T	4	16.13	8.06	15.96	11.18	
LTX100:11:1027376:T	chr11	1027376	LTX100	T	A	4	28.68	19.44	21.74	13.37	
LTX100:5:148632344:G	chr5	148632344	LTX100	G	T	4	25.90	16.00	22.61	14.00	
LTX100:3:149498195:G	chr3	149498195	LTX100	G	C	4	23.65	14.68	22.24	14.15	
LTX100:1:3544202:A	chr1	3544202	LTX100	A	T	5	37.25	24.05	38.57	24.30	
LTX100:1:196397359:G	chr1	196397359	LTX100	G	T	4	55.83	38.55	51.40	35.43	
LTX100:9:100331259:G	chr9	100331259	LTX100	G	T	5	25.38	15.89	23.04	13.76	
LTX100:17:17700464:G	chr17	17700464	LTX100	G	C	4	52.44	32.55	42.60	26.49	
LTX100:19:17442022:C	chr19	17442022	LTX100	C	A	4	61.97	37.01	60.85	37.24	
LTX109:9:34556410:G	chr9	34556410	LTX109	G	T	4	8.41	1.70	5.04	1.01	
LTX109:5:33954466:C	chr5	33954466	LTX109	C	A	4	26.42	24.57	26.25	24.49	
LTX109:3:48463099:C	chr3	48463099	LTX109	C	A	4	37.90	33.53	35.36	33.08	
LTX109:11:5411311:T	chr11	5411311	LTX109	T	G	4	26.59	21.26	46.64	38.84	
LTX109:1:237666746:G	chr1	237666746	LTX109	G	T	4	37.61	34.18	39.29	34.00	
LTX109:1:228468075:A	chr1	228468075	LTX109	A	T	4	45.76	40.95	39.05	34.39	
LTX109:10:91198802:A	chr10	91198802	LTX109	A	C	4	35.70	32.90	36.49	33.58	
LTX109:1:237711798:C	chr1	237711798	LTX109	C	A	4	39.21	35.28	34.47	31.19	
LTX109:7:44189600:C	chr7	44189600	LTX109	C	A	4	37.38	34.70	31.18	27.48	
LTX109:9:71549910:A	chr9	71549910	LTX109	A	T	4	34.25	30.42	34.06	29.96	
LTX109:3:130368376:C	chr3	130368376	LTX109	C	A	4	37.17	34.53	37.69	32.37	
LTX109:1:34663368:C	chr1	34663368	LTX109	C	A	4	33.24	30.07	35.45	32.64	
LTX109:4:155156394:C	chr4	155156394	LTX109	C	A	4	27.27	13.44	35.27	32.40	
LTX109:13:88330370:C	chr13	88330370	LTX109	C	A	4	45.45	36.51	43.93	35.66	

LTX109:11:120998619:G	chr11	120998619	LTX109	G	T	4	72.93	65.99	60.50		52.14	
LTX109:9:6328604:T	chr9	6328604	LTX109	T	A	4	40.16	35.26	41.13		33.70	
LTX109:2:165550841:C	chr2	165550841	LTX109	C	A	4	60.12	51.65	58.24		52.50	
LTX109:8:1639792:G	chr8	1639792	LTX109	G	T	4	73.40	65.35	54.67		49.40	
LTX110:6:117641107:G	chr6	117641107	LTX110	G	T	2	9.32	8.13	8.86		6.75	
LTX110:4:106180868:A	chr4	106180868	LTX110	A	T	1	10.30	8.66	8.56		8.17	
LTX110:18:48593406:G	chr18	48593406	LTX110	G	A	1	8.89	7.64	9.17		7.01	
LTX110:8:42798576:G	chr8	42798576	LTX110	G	T	2	7.80	6.77	8.33		7.36	
LTX110:3:168845830:C	chr3	168845830	LTX110	C	A	2	24.46	21.43	23.17		17.98	
LTX110:3:70014251:G	chr3	70014251	LTX110	G	A	2	10.61	10.54	9.46		8.74	
LTX110:6:157469761:A	chr6	157469761	LTX110	A	G	2	7.76	6.76	8.20		7.85	
LTX110:19:10602334:C	chr19	10602334	LTX110	C	T	2	6.70	6.23	6.53		6.10	
LTX110:6:152265547:A	chr6	152265547	LTX110	A	T	3	17.63	17.09	7.98		7.54	
LTX110:14:93273219:G	chr14	93273219	LTX110	G	T	3	9.44	8.66	9.50		6.86	
LTX110:7:31378611:C	chr7	31378611	LTX110	C	A	4	7.94	7.23	8.32		7.21	
LTX110:11:72406892:G	chr11	72406892	LTX110	G	T	4	8.64	8.10	8.05		6.28	
LTX110:11:55927714:A	chr11	55927714	LTX110	A	T	4	8.83	7.93	9.47		8.01	
LTX110:3:186793407:C	chr3	186793407	LTX110	C	A	4	8.75	8.05	6.72		5.93	
LTX110:3:43408427:T	chr3	43408427	LTX110	T	A	4	8.03	7.09	9.93		7.89	
LTX110:4:57181010:C	chr4	57181010	LTX110	C	G	4	4.96	4.14	9.93		8.62	
LTX110:4:162577567:G	chr4	162577567	LTX110	G	T	4	8.75	7.37	8.21		7.50	
LTX110:19:42599717:A	chr19	42599717	LTX110	A	C	4	4.52	3.77	8.20		6.92	
LTX110:8:37734705:C	chr8	37734705	LTX110	C	A	4	9.00	7.85	8.78		7.08	
LTX110:11:57886693:G	chr11	57886693	LTX110	G	T	4	9.97	9.13	9.30		9.08	
LTX145:3:53752345:G	chr3	53752345	LTX145	G	T	2	32.20	26.36	33.87		24.57	
LTX145:3:168833962:T	chr3	168833962	LTX145	T	A	2	0.01	0.00	21.15		5.49	

LTX145:3:121341836:T	chr3	121341836	LTX145	T	A	4	31.64	26.60	29.29		25.86	
LTX145:8:117657285:T	chr8	117657285	LTX145	T	G	4	10.66	3.41	9.61		3.35	
LTX145:15:65491088:C	chr15	65491088	LTX145	C	A	4	34.59	28.50	27.89		24.91	
LTX145:15:27725970:C	chr15	27725970	LTX145	C	G	4	32.71	27.31	27.17		24.84	
LTX145:11:111614206:T	chr11	111614206	LTX145	T	G	4	31.70	26.05	30.12		25.12	
LTX145:15:30026516:C	chr15	30026516	LTX145	C	A	4	33.64	27.30	26.86		24.28	
LTX145:5:131714085:G	chr5	131714085	LTX145	G	C	4	21.85	9.37	16.83		8.11	
LTX145:5:140023551:G	chr5	140023551	LTX145	G	T	4	47.95	38.38	43.13		35.08	
LTX145:5:13729582:C	chr5	13729582	LTX145	C	A	4	32.86	27.31	33.47		25.96	
LTX145:14:74824852:C	chr14	74824852	LTX145	C	A	4	39.46	34.42	30.77		24.72	
LTX145:1:197030056:C	chr1	197030056	LTX145	C	A	4	23.68	20.92	20.35		17.75	
LTX145:1:99772343:T	chr1	99772343	LTX145	T	A	4	31.87	26.14	29.83		24.56	
LTX145:4:57796315:A	chr4	57796315	LTX145	A	C	4	37.57	31.19	27.14		24.78	
LTX145:8:132052088:C	chr8	132052088	LTX145	C	A	5	29.90	25.66	31.49		25.44	
LTX145:1:168066004:C	chr1	168066004	LTX145	C	A	4	37.57	32.18	22.06		19.43	
LTX145:8:95523466:G	chr8	95523466	LTX145	G	T	4	30.44	26.72	26.82		23.32	
LTX225:17:7578205:C	chr17	7578205	LTX225	C	A	1	34.60	27.67	32.96		25.40	
LTX225:10:118310697:A	chr10	118310697	LTX225	A	T	4	24.41	20.29	19.40		17.63	
LTX225:7:24905006:G	chr7	24905006	LTX225	G	C	4	8.53	5.31	8.75		4.93	
LTX225:2:241075707:G	chr2	241075707	LTX225	G	T	4	0.00	0.00	20.84		18.94	
LTX225:12:81532998:G	chr12	81532998	LTX225	G	T	4	7.59	3.80	6.56		3.28	
LTX225:18:44149596:G	chr18	44149596	LTX225	G	A	4	15.57	15.33	19.29		17.26	
LTX225:1:151141527:A	chr1	151141527	LTX225	A	C	4	23.27	19.43	24.31		20.05	
LTX225:11:76877203:G	chr11	76877203	LTX225	G	A	4	8.36	4.18	7.70		3.85	
LTX225:19:1051534:G	chr19	1051534	LTX225	G	T	4	5.97	3.49	9.89		5.52	
LTX225:16:546834:C	chr16	546834	LTX225	C	T	4	4.56	2.28	5.18		2.59	

LTX225:19:10570296:G	chr19	10570296	LTX225	G	A	4	4.95	2.47	5.75		2.88
LTX225:12:104408833:A	chr12	104408833	LTX225	A	G	4	24.71	20.70	24.02		21.31
LTX225:21:42830594:G	chr21	42830594	LTX225	G	A	4	21.39	10.88	7.86		3.93
LTX225:19:4720762O:C	chr19	47207620	LTX225	C	T	4	7.70	3.88	10.47		5.23
LTX225:1:205889344:A	chr1	205889344	LTX225	A	G	5	8.04	4.02	7.32		3.66
LTX225:2:99182129:A	chr2	99182129	LTX225	A	G	4	52.01	45.51	23.41		18.15
LTX225:10:50028323:C	chr10	50028323	LTX225	C	T	5	25.50	23.03	19.06		17.39
LTX225:13:113479755:C	chr13	113479755	LTX225	C	T	4	8.29	4.17	6.82		3.41
LTX145:9:34993279:G	chr9	34993279	LTX145	G	A	4	5.89	1.51	6.06		1.52
LTX145:2:97268559:G	chr2	97268559	LTX145	G	A	5	5.36	1.36	7.10		1.78
LTX019:17:29576091:C	chr17	29576091	LTX019	C	G	1	26.33	15.41	25.43		15.19
LTX019:22:41574949:G	chr22	41574949	LTX019	G	C	1	21.43	12.84	22.99		12.74
LTX019:9:136231864:G	chr9	136231864	LTX019	G	C	4	29.89	17.04	29.36		17.28
LTX019:19:39914989:T	chr19	39914989	LTX019	T	G	4	18.39	9.02	21.50		12.42
LTX019:2:74733940:C	chr2	74733940	LTX019	C	G	4	15.07	9.12	18.10		9.33
LTX019:8:42821731:C	chr8	42821731	LTX019	C	G	2	20.36	13.81	21.60		13.96
LTX019:4:153249457:G	chr4	153249457	LTX019	G	A	1	27.25	15.97	23.27		13.71
LTX019:2:100168048:T	chr2	100168048	LTX019	T	C	2	24.86	16.43	20.36		13.89
LTX019:2:47637426:T	chr2	47637426	LTX019	T	A	1	17.87	12.97	20.53		12.30
LTX019:17:40870017:C	chr17	40870017	LTX019	C	A	2	17.91	13.10	15.53		11.44
LTX019:5:142258975:G	chr5	142258975	LTX019	G	T	3	42.03	28.13	37.10		25.88
LTX019:15:78921901:A	chr15	78921901	LTX019	A	C	4	17.37	12.04	21.37		15.06
LTX019:9:18928351:C	chr9	18928351	LTX019	C	A	4	31.61	19.85	32.18		19.22
LTX019:3:119530387:G	chr3	119530387	LTX019	G	T	4	21.67	14.06	23.38		14.35
LTX019:7:127013601:T	chr7	127013601	LTX019	T	A	4	31.50	19.47	31.68		19.73
LTX019:11:55587191:T	chr11	55587191	LTX019	T	G	4	9.69	1.94	7.96		1.63

LTX019:11:119547900:C	chr11	119547900	LTX019	C	G	4	8.66	2.65	9.50	2.38	
LTX019:14:31602819:C	chr14	31602819	LTX019	C	G	4	11.60	6.98	12.20	6.83	
LTX019:8:62212481:C	chr8	62212481	LTX019	C	A	4	25.02	17.16	20.44	11.48	
LTX068:17:7577586:A	chr17	7577586	LTX068	A	T	1	58.33	40.68	60.26	42.05	
LTX068:11:32450162:T	chr11	32450162	LTX068	T	A	1	36.23	26.66	46.43	32.99	
LTX068:6:168319470:G	chr6	168319470	LTX068	G	C	2	32.85	25.52	35.46	24.99	
LTX068:11:48177384:G	chr11	48177384	LTX068	G	T	4	35.08	27.18	35.92	26.12	
LTX068:17:51900935:A	chr17	51900935	LTX068	A	T	4	33.28	25.11	32.78	22.93	
LTX068:7:142564817:C	chr7	142564817	LTX068	C	A	4	18.77	14.71	15.19	12.30	
LTX068:11:47369017:C	chr11	47369017	LTX068	C	A	4	38.68	29.09	34.88	24.90	
LTX068:17:10258418:G	chr17	10258418	LTX068	G	T	4	58.66	39.80	52.67	36.34	
LTX068:15:64019933:C	chr15	64019933	LTX068	C	A	4	25.70	19.61	22.35	16.59	
LTX068:12:4853776:G	chr12	4853776	LTX068	G	T	4	40.02	31.91	44.32	32.96	
LTX068:5:95746549:A	chr5	95746549	LTX068	A	T	4	42.17	31.45	45.80	30.36	
LTX068:18:58039460:G	chr18	58039460	LTX068	G	T	4	39.63	28.81	37.17	26.57	
LTX068:1:103400091:G	chr1	103400091	LTX068	G	T	4	32.40	25.00	43.24	25.96	
LTX068:6:25924117:A	chr6	25924117	LTX068	A	T	4	33.31	26.36	31.67	21.59	
LTX068:11:123813893:T	chr11	123813893	LTX068	T	G	4	16.18	12.31	14.93	12.39	
LTX068:13:101997653:T	chr13	101997653	LTX068	T	A	4	14.96	9.83	14.68	8.13	
LTX068:16:9010372:T	chr16	9010372	LTX068	T	A	4	18.24	13.90	18.37	12.46	
LTX068:17:10426687:T	chr17	10426687	LTX068	T	G	4	13.03	4.96	14.84	5.60	
LTX068:3:193051643:G	chr3	193051643	LTX068	G	C	4	4.96	1.76	5.60	2.02	
LTX068:19:10904505:G	chr19	10904505	LTX068	G	A	1	10.89	2.63	12.22	2.63	
LTX156:7:138252243:G	chr7	138252243	LTX156	G	C	2	15.49	13.33	16.95	12.06	
LTX156:10:32306146:G	chr10	32306146	LTX156	G	A	2	8.57	7.19	7.60	5.84	
LTX156:14:42368142:C	chr14	42368142	LTX156	C	A	4	9.87	7.48	9.34	5.56	

LTX156:10:50004397:C	chr10	50004397	LTX156	C	G		4	41.34	33.16	37.34		32.88
LTX156:1:28138714:G	chr1	28138714	LTX156	G	T		4	21.43	18.79	20.37		17.88
LTX156:1:154239006:G	chr1	154239006	LTX156	G	T		4	7.28	6.39	7.41		6.21
LTX156:4:77662103:A	chr4	77662103	LTX156	A	C		4	28.57	10.40	10.00		7.09
LTX156:12:132271052:G	chr12	132271052	LTX156	G	T		4	54.93	46.33	38.35		32.45
LTX156:1:1246450:C	chr1	1246450	LTX156	C	A		5	23.91	16.40	22.33		16.52
LTX156:3:99649754:G	chr3	99649754	LTX156	G	T		4	17.28	14.31	16.20		12.34
LTX156:2:210694040:C	chr2	210694040	LTX156	C	A		4	9.67	7.70	7.96		6.42
LTX156:1:27877157:C	chr1	27877157	LTX156	C	G		4	12.24	9.55	12.24		8.76
LTX156:16:29818790:G	chr16	29818790	LTX156	G	T		5	36.36	26.23	26.82		21.27
LTX156:8:3226817:G	chr8	3226817	LTX156	G	C		4	11.51	9.01	9.13		7.56
LTX156:11:534223:G	chr11	534223	LTX156	G	A		2	10.34	5.71	9.35		6.64
LTX156:12:7653956:C	chr12	7653956	LTX156	C	A		4	8.48	5.73	9.02		5.13
LTX156:6:90312838:C	chr6	90312838	LTX156	C	A		4	8.66	5.30	7.67		4.66
LTX156:12:6494404:G	chr12	6494404	LTX156	G	C		4	4.09	2.48	7.26		4.14
LTX156:12:111776278:G	chr12	111776278	LTX156	G	T		4	4.72	1.18	5.26		1.32
LTX162:1:27683895:T	chr1	27683895	LTX162	T	A		4	29.03	16.24	21.43		17.32
LTX162:9:130374711:T	chr9	130374711	LTX162	T	G		4	0.00	0.00	16.03		15.59
LTX162:7:55242481:A	chr7	55242481	LTX162	A	C		3	0.00	0.00	19.20		16.29
LTX162:6:83828613:C	chr6	83828613	LTX162	C	G		4	17.78	13.65	17.21		12.90
LTX162:16:424265:G	chr16	424265	LTX162	G	C		4	20.00	10.00	19.62		18.01
LTX162:9:90252886:T	chr9	90252886	LTX162	T	A		4	24.96	21.29	24.95		20.10
LTX162:5:118280268:G	chr5	118280268	LTX162	G	T		4	26.13	21.25	21.51		17.71
LTX162:12:122396246:A	chr12	122396246	LTX162	A	C		4	23.92	20.87	20.27		19.30
LTX162:11:66481562:C	chr11	66481562	LTX162	C	T		4	27.70	25.05	27.71		22.63
LTX162:11:18253075:G	chr11	18253075	LTX162	G	T		4	10.73	10.22	10.40		9.83

LTX162:20:13567899:C	chr20	13567899	LTX162	C	G		4	12.64	12.12	11.31		9.78
LTX162:16:67997389:G	chr16	67997389	LTX162	G	T		4	8.32	4.34	9.77		5.09
LTX162:16:29993033:A	chr16	29993033	LTX162	A	T		4	7.60	7.59	7.96		7.71
LTX162:15:88670416:T	chr15	88670416	LTX162	T	A		2	6.99	3.50	6.34		3.17
LTX162:9:136508541:C	chr9	136508541	LTX162	C	A		4	4.94	2.47	6.83		3.49
LTX162:11:44959763:A	chr11	44959763	LTX162	A	G		4	4.20	2.10	8.56		4.28
LTX162:6:41752712:G	chr6	41752712	LTX162	G	C		4	9.42	8.71	7.37		6.98
LTX162:6:12122235:G	chr6	12122235	LTX162	G	A		4	7.55	7.44	7.29		7.19
LTX162:12:49396782:C	chr12	49396782	LTX162	C	A		4	16.77	13.53	17.75		13.45
LTX164:5:112178402:A	chr5	112178402	LTX164	A	T		1	15.84	13.99	16.71		13.14
LTX164:4:1805534:A	chr4	1805534	LTX164	A	T		2	16.67	10.96	12.89		11.67
LTX164:19:1207182:C	chr19	1207182	LTX164	C	G		1	32.95	29.56	29.69		25.48
LTX164:1:157545325:C	chr1	157545325	LTX164	C	T		2	34.25	28.54	24.39		20.53
LTX164:6:114270209:C	chr6	114270209	LTX164	C	A		4	14.81	13.57	12.28		10.83
LTX164:2:131487614:A	chr2	131487614	LTX164	A	T		4	16.68	15.21	17.74		14.36
LTX164:5:140203161:G	chr5	140203161	LTX164	G	T		4	30.77	17.24	13.38		13.13
LTX164:3:47307361:C	chr3	47307361	LTX164	C	A		4	16.50	14.85	14.79		11.79
LTX164:17:65362542:C	chr17	65362542	LTX164	C	A		4	27.59	17.50	14.06		12.57
LTX164:11:107966336:A	chr11	107966336	LTX164	A	T		4	16.68	15.04	12.05		12.02
LTX164:4:186545504:T	chr4	186545504	LTX164	T	A		4	17.10	14.87	15.00		13.87
LTX164:7:75615283:G	chr7	75615283	LTX164	G	T		4	66.67	50.00	22.53		15.55
LTX164:1:174219725:G	chr1	174219725	LTX164	G	T		4	32.68	27.88	26.75		26.05
LTX164:5:19571754:G	chr5	19571754	LTX164	G	T		4	12.33	12.33	11.07		8.19
LTX164:4:119176820:C	chr4	119176820	LTX164	C	A		4	19.20	17.18	14.89		14.35
LTX164:5:161322753:T	chr5	161322753	LTX164	T	A		4	15.01	14.29	18.22		15.23
LTX164:7:66274029:A	chr7	66274029	LTX164	A	C		4	2.05	1.03	5.32		2.66

LTX164:9:140707929:C	chr9	140707929	LTX164	C	G	4	7.33	3.66	7.69	3.85	
LTX201:19:1220487:G	chr19	1220487	LTX201	G	A	1	20.00	12.14	16.93	11.46	
LTX201:17:7574017:C	chr17	7574017	LTX201	C	A	1	12.55	8.47	10.96	8.40	
LTX201:5:78610237:G	chr5	78610237	LTX201	G	C	4	64.64	42.46	13.99	10.17	
LTX201:20:46293955:C	chr20	46293955	LTX201	C	G	4	12.04	6.63	8.94	5.31	
LTX201:17:40362191:G	chr17	40362191	LTX201	G	C	3	22.29	15.69	21.58	14.33	
LTX201:1:11561104:G	chr1	11561104	LTX201	G	C	4	13.46	8.11	12.50	8.69	
LTX201:14:105707702:C	chr14	105707702	LTX201	C	G	4	11.34	5.29	15.25	7.95	
LTX201:12:13768151:C	chr12	13768151	LTX201	C	A	4	14.52	10.12	13.54	9.41	
LTX201:8:23004525:C	chr8	23004525	LTX201	C	G	4	20.60	8.34	20.00	8.56	
LTX201:6:90578290:G	chr6	90578290	LTX201	G	C	4	13.86	7.85	15.95	7.95	
LTX201:19:6381736:C	chr19	6381736	LTX201	C	G	4	15.86	11.33	19.51	13.05	
LTX201:12:70713116:G	chr12	70713116	LTX201	G	C	4	13.56	8.85	19.46	8.31	
LTX201:17:40815438:C	chr17	40815438	LTX201	C	G	4	12.53	7.98	11.79	7.86	
LTX201:13:53616220:G	chr13	53616220	LTX201	G	C	4	11.51	5.96	11.70	5.80	
LTX201:4:164271510:G	chr4	164271510	LTX201	G	T	4	14.54	8.33	13.86	8.58	
LTX201:12:6427936:C	chr12	6427936	LTX201	C	G	4	13.66	9.61	14.36	9.45	
LTX201:1:2411726:G	chr1	2411726	LTX201	G	T	4	22.22	11.61	19.54	9.26	
LTX201:3:169514030:G	chr3	169514030	LTX201	G	C	4	13.17	9.89	11.90	9.08	
LTX201:19:57326152:G	chr19	57326152	LTX201	G	T	4	6.08	0.76	7.01	0.88	
LTX201:5:131013471:A	chr5	131013471	LTX201	A	C	4	4.21	0.96	6.50	1.25	
LTX201:8:32621655:A	chr8	32621655	LTX201	A	G	2	9.81	4.94	6.41	4.12	
LTX203:12:46243395:T	chr12	46243395	LTX203	T	G	1	17.80	12.80	18.01	13.08	
LTX203:14:51226902:T	chr14	51226902	LTX203	T	C	2	19.04	13.22	17.65	13.79	
LTX203:17:7579313:G	chr17	7579313	LTX203	G	T	1	35.77	21.26	23.75	14.74	
LTX203:5:176522563:G	chr5	176522563	LTX203	G	T	3	66.67	46.67	25.97	15.57	

LTX203:1:197390397:G	chr1	197390397	LTX203	G	C	4	28.77	18.45	25.62		17.16
LTX203:2:8871304:C	chr2	8871304	LTX203	C	A	4	20.32	13.01	21.04		13.65
LTX203:18:61223556:A	chr18	61223556	LTX203	A	T	4	11.74	8.63	11.01		8.24
LTX203:19:51161347:C	chr19	51161347	LTX203	C	A	4	21.95	16.48	18.22		13.43
LTX203:8:87076348:A	chr8	87076348	LTX203	A	T	4	23.52	15.55	23.26		15.24
LTX203:5:161580183:G	chr5	161580183	LTX203	G	T	4	25.26	15.20	21.06		12.33
LTX203:1:162325112:G	chr1	162325112	LTX203	G	T	4	17.66	11.19	12.30		8.51
LTX203:8:144239885:C	chr8	144239885	LTX203	C	A	4	26.83	21.48	18.81		13.46
LTX203:5:22078734:C	chr5	22078734	LTX203	C	A	4	34.45	24.42	29.30		21.96
LTX203:3:142681882:G	chr3	142681882	LTX203	G	T	4	40.00	31.52	34.65		21.79
LTX203:16:50332821:G	chr16	50332821	LTX203	G	T	4	26.94	23.22	18.60		12.45
LTX203:1:247588067:C	chr1	247588067	LTX203	C	A	4	41.35	26.96	20.14		12.99
LTX203:19:54822825:G	chr19	54822825	LTX203	G	T	4	21.15	14.20	24.71		15.72
LTX203:22:41077781:G	chr22	41077781	LTX203	G	T	4	18.54	13.60	15.45		12.28
LTX203:6:74078509:A	chr6	74078509	LTX203	A	C	4	29.37	19.18	29.22		16.32
LTX221:7:128850948:C	chr7	128850948	LTX221	C	T	2	28.09	25.72	26.83		23.87
LTX221:10:3821771:C	chr10	3821771	LTX221	C	A	1	37.08	27.45	38.14		27.55
LTX221:14:57114011:C	chr14	57114011	LTX221	C	A	4	32.11	25.90	29.57		22.25
LTX221:12:29709874:G	chr12	29709874	LTX221	G	T	4	42.36	31.60	30.24		23.93
LTX221:1:158622433:G	chr1	158622433	LTX221	G	C	4	24.63	21.38	24.96		19.82
LTX221:1:60314811:A	chr1	60314811	LTX221	A	T	4	34.74	25.85	34.74		24.65
LTX221:21:32526616:C	chr21	32526616	LTX221	C	G	4	21.36	15.25	27.05		19.74
LTX221:18:44113134:G	chr18	44113134	LTX221	G	T	4	36.52	25.65	32.67		24.60
LTX221:1:198701441:G	chr1	198701441	LTX221	G	T	3	53.58	40.67	55.80		38.15
LTX221:4:94377023:C	chr4	94377023	LTX221	C	A	4	36.67	26.46	38.69		26.70
LTX221:3:142985603:C	chr3	142985603	LTX221	C	A	4	38.08	27.68	30.60		23.51

LTX221:11:1016493:G	chr11	1016493	LTX221	G	T	4	38.21	25.31	33.20	22.01	
LTX221:5:174151798:C	chr5	174151798	LTX221	C	A	4	100.00	33.33	38.89	26.23	
LTX221:18:61226882:G	chr18	61226882	LTX221	G	T	4	35.01	25.64	31.13	22.18	
LTX221:2:192194687:G	chr2	192194687	LTX221	G	T	4	31.09	10.40	30.51	10.21	
LTX221:3:49321474:G	chr3	49321474	LTX221	G	T	4	16.43	5.48	13.96	4.68	
LTX221:22:29115418:T	chr22	29115418	LTX221	T	G	3	16.69	5.56	31.25	10.42	
LTX221:7:115580943:C	chr7	115580943	LTX221	C	A	4	25.76	13.89	21.61	11.38	
LTX221:7:47851531:C	chr7	47851531	LTX221	C	T	4	6.58	2.21	6.74	2.29	
LTX249:13:20635239:A	chr13	20635239	LTX249	A	C	2	23.08	20.17	20.56	17.88	
LTX249:16:3789589:G	chr16	3789589	LTX249	G	A	2	9.70	8.80	9.58	8.31	
LTX249:12:51054045:C	chr12	51054045	LTX249	C	G	4	9.97	8.47	8.51	7.56	
LTX249:8:10469860:G	chr8	10469860	LTX249	G	T	4	24.19	21.03	17.99	15.86	
LTX249:1:177250070:G	chr1	177250070	LTX249	G	T	4	10.29	8.35	9.65	7.83	
LTX249:1:171621722:G	chr1	171621722	LTX249	G	C	4	15.51	15.23	14.25	13.33	
LTX249:10:50955213:C	chr10	50955213	LTX249	C	A	4	24.02	21.80	23.40	21.91	
LTX249:17:18029731:T	chr17	18029731	LTX249	T	A	4	9.51	8.57	9.12	8.19	
LTX249:6:123786083:G	chr6	123786083	LTX249	G	T	4	10.68	10.01	12.12	8.88	
LTX249:9:18770718:G	chr9	18770718	LTX249	G	T	4	26.29	22.96	26.17	18.65	
LTX249:2:27746222:T	chr2	27746222	LTX249	T	A	4	32.93	31.82	31.16	29.83	
LTX249:8:105001541:T	chr8	105001541	LTX249	T	A	4	10.97	10.02	16.07	13.86	
LTX249:11:20648293:G	chr11	20648293	LTX249	G	T	4	30.31	27.41	23.04	21.72	
LTX249:11:36596299:G	chr11	36596299	LTX249	G	T	4	8.45	7.29	9.06	7.41	
LTX249:20:3674958:C	chr20	3674958	LTX249	C	A	4	21.49	18.40	17.07	15.05	
LTX249:18:29867943:T	chr18	29867943	LTX249	T	A	4	23.15	20.86	22.81	20.96	
LTX249:18:56205356:G	chr18	56205356	LTX249	G	T	4	13.84	11.87	11.94	10.87	
LTX249:12:76791654:C	chr12	76791654	LTX249	C	G	4	9.42	8.52	10.75	8.30	

LTX249:5:110818572:T	chr5	110818572	LTX249	T	A	4	10.23	3.43	12.94		4.31	
LTX249:17:7578508:C	chr17	7578508	LTX249	C	T	1	15.07	5.15	13.68		4.76	
LTX249:1:247615046:G	chr1	247615046	LTX249	G	A	4	8.46	5.35	8.70		5.55	
LTX251:3:69813032:G	chr3	69813032	LTX251	G	T	2	56.16	38.35	50.14		37.64	
LTX251:17:7577082:C	chr17	7577082	LTX251	C	A	1	74.28	54.07	67.47		49.90	
LTX251:7:55259515:T	chr7	55259515	LTX251	T	G	1	45.20	38.95	39.96		39.20	
LTX251:3:44975414:C	chr3	44975414	LTX251	C	G	4	28.28	18.76	21.85		14.53	
LTX251:7:95665039:G	chr7	95665039	LTX251	G	C	4	12.06	9.59	11.84		9.28	
LTX251:17:76071234:A	chr17	76071234	LTX251	A	T	4	15.43	11.75	11.20		7.47	
LTX251:1:97547995:C	chr1	97547995	LTX251	C	G	4	43.59	31.67	40.18		28.81	
LTX251:5:174868798:G	chr5	174868798	LTX251	G	C	4	30.24	22.73	24.45		18.73	
LTX251:1:99753592:C	chr1	99753592	LTX251	C	A	4	32.60	24.86	31.49		23.08	
LTX251:6:158850928:A	chr6	158850928	LTX251	A	T	4	52.03	37.97	50.30		36.00	
LTX251:16:24580321:A	chr16	24580321	LTX251	A	T	5	13.61	10.38	12.43		9.57	
LTX251:19:54760176:G	chr19	54760176	LTX251	G	T	4	68.06	48.12	69.35		48.84	
LTX251:19:12817525:C	chr19	12817525	LTX251	C	A	4	73.94	62.02	69.84		57.15	
LTX251:19:42794685:C	chr19	42794685	LTX251	C	T	1	16.67	8.33	11.40		5.70	
LTX251:17:11726168:T	chr17	11726168	LTX251	T	G	4	13.88	6.94	10.62		5.35	
LTX251:15:89424894:C	chr15	89424894	LTX251	C	G	4	14.99	7.50	14.88		7.44	
LTX251:20:31608191:T	chr20	31608191	LTX251	T	A	4	6.10	4.15	5.72		4.15	
LTX251:11:110450272:A	chr11	110450272	LTX251	A	T	4	7.40	4.83	7.92		5.78	
LTX121:1:120510124:G	chr1	120510124	LTX121	G	T	2	31.25	24.62	21.43		18.20	
LTX121:12:49431006:G	chr12	49431006	LTX121	G	C	1	42.82	34.16	38.46		31.91	
LTX121:17:7579358:C	chr17	7579358	LTX121	C	A	2	63.38	49.65	57.45		45.18	
LTX121:14:95570254:G	chr14	95570254	LTX121	G	T	1	69.08	59.80	59.40		52.19	
LTX121:12:132681673:C	chr12	132681673	LTX121	C	A	4	34.19	29.45	27.20		21.82	

LTX121:1:158736295:A	chr1	158736295	LTX121	A	T	4	36.12	29.39	32.32		25.75	
LTX121:9:110251297:C	chr9	110251297	LTX121	C	G	3	19.30	13.22	46.10		38.15	
LTX121:6:51712624:G	chr6	51712624	LTX121	G	T	4	45.87	38.50	43.75		32.59	
LTX121:1:196227523:C	chr1	196227523	LTX121	C	G	4	23.33	23.10	28.71		24.19	
LTX121:4:88964509:G	chr4	88964509	LTX121	G	T	4	30.24	22.22	22.28		18.92	
LTX121:4:70798307:G	chr4	70798307	LTX121	G	T	4	15.02	7.51	12.05		6.26	
LTX121:11:48285561:G	chr11	48285561	LTX121	G	T	4	36.75	34.76	33.25		32.81	
LTX121:7:106523488:G	chr7	106523488	LTX121	G	T	4	53.25	33.19	47.23		30.88	
LTX121:10:103433303:G	chr10	103433303	LTX121	G	T	4	69.12	52.68	54.17		39.58	
LTX121:17:43011894:C	chr17	43011894	LTX121	C	A	4	47.11	36.85	46.00		34.87	
LTX121:8:145151305:C	chr8	145151305	LTX121	C	G	4	10.72	5.36	7.46		3.90	
LTX121:17:11593059:A	chr17	11593059	LTX121	A	T	4	16.29	10.95	54.95		44.63	
LTX121:17:27899577:G	chr17	27899577	LTX121	G	T	4	50.00	48.81	31.22		28.48	
LTX121:19:56416312:G	chr19	56416312	LTX121	G	T	4	22.00	17.37	27.78		22.16	
LTX142:17:7577099:C	chr17	7577099	LTX142	C	T	1	65.00	59.12	69.81		59.17	
LTX142:17:79954414:C	chr17	79954414	LTX142	C	T	2	7.84	6.34	6.88		6.80	
LTX142:7:55259524:T	chr7	55259524	LTX142	T	A	1	37.93	34.60	36.78		36.26	
LTX142:16:47732407:T	chr16	47732407	LTX142	T	G	4	11.15	10.58	12.30		11.80	
LTX142:5:140710736:T	chr5	140710736	LTX142	T	A	4	21.40	19.28	24.92		21.66	
LTX142:17:41174017:A	chr17	41174017	LTX142	A	C	4	59.09	54.55	56.86		50.58	
LTX142:4:100128617:C	chr4	100128617	LTX142	C	A	4	42.37	38.66	43.65		35.84	
LTX142:19:15300124:C	chr19	15300124	LTX142	C	A	5	19.83	13.98	15.13		13.15	
LTX142:7:12419132:C	chr7	12419132	LTX142	C	A	4	37.90	32.59	38.15		35.56	
LTX142:6:65655721:G	chr6	65655721	LTX142	G	T	4	20.38	16.74	20.29		16.89	
LTX142:1:19166201:G	chr1	19166201	LTX142	G	C	4	57.82	55.03	53.73		52.83	
LTX142:7:31793050:C	chr7	31793050	LTX142	C	A	4	9.04	8.78	8.53		6.70	

LTX142:1:40309782:C	chr1	40309782	LTX142	C	A	4	12.03	11.40	11.90		11.86	
LTX142:6:160469535:G	chr6	160469535	LTX142	G	T	4	24.22	20.08	28.02		20.49	
LTX142:2:11355065:T	chr2	11355065	LTX142	T	G	4	12.21	11.73	10.84		10.42	
LTX142:2:9541476:C	chr2	9541476	LTX142	C	T	4	34.84	32.09	33.04		28.33	
LTX142:7:139661754:C	chr7	139661754	LTX142	C	T	4	38.10	36.05	34.17		33.30	
LTX142:1:244816649:T	chr1	244816649	LTX142	T	C	4	13.64	9.65	10.68		8.52	
LTX142:17:74078720:C	chr17	74078720	LTX142	C	T	4	3.95	3.57	10.00		9.99	
LTX143:14:21871730:T	chr14	21871730	LTX143	T	A	2	24.37	20.13	20.18		16.90	
LTX143:3:47103798:G	chr3	47103798	LTX143	G	A	1	71.10	53.70	69.46		51.87	
LTX143:6:25850091:C	chr6	25850091	LTX143	C	A	4	58.99	37.85	57.52		37.38	
LTX143:18:33795771:A	chr18	33795771	LTX143	A	T	4	29.86	25.14	25.00		24.35	
LTX143:17:26937541:A	chr17	26937541	LTX143	A	C	4	29.73	23.27	25.18		22.24	
LTX143:5:37198820:C	chr5	37198820	LTX143	C	G	4	39.26	26.82	27.61		19.30	
LTX143:9:140082218:T	chr9	140082218	LTX143	T	A	4	31.11	23.79	29.27		22.01	
LTX143:1:51754538:T	chr1	51754538	LTX143	T	G	4	28.52	23.47	19.39		18.36	
LTX143:18:10789080:G	chr18	10789080	LTX143	G	T	4	31.41	25.60	25.00		21.27	
LTX143:14:88946553:G	chr14	88946553	LTX143	G	T	4	22.22	11.11	21.82		18.20	
LTX143:1:150444100:T	chr1	150444100	LTX143	T	A	5	28.34	14.18	29.66		14.95	
LTX143:15:60806877:C	chr15	60806877	LTX143	C	A	4	14.37	7.18	12.20		6.10	
LTX143:10:43698758:G	chr10	43698758	LTX143	G	C	5	0.00	0.00	12.61		6.31	
LTX143:12:104174078:C	chr12	104174078	LTX143	C	G	4	34.99	27.50	18.82		14.08	
LTX143:22:42383705:C	chr22	42383705	LTX143	C	A	4	31.54	25.30	34.85		25.94	
LTX143:2:15698722:T	chr2	15698722	LTX143	T	A	4	24.35	20.88	21.10		16.61	
LTX143:17:56676512:G	chr17	56676512	LTX143	G	T	4	13.34	6.67	10.31		5.38	
LTX143:7:2409183:A	chr7	2409183	LTX143	A	T	4	15.03	7.51	12.69		6.34	
LTX143:19:34706094:G	chr19	34706094	LTX143	G	A	3	14.56	7.30	17.36		8.68	

LTX143:6:151914338:C	chr6	151914338	LTX143	C	T	4	21.31	11.21	17.93	9.53	
LTX166:8:117870662:T	chr8	117870662	LTX166	T	A	1	7.93	7.57	8.23	7.20	
LTX166:17:15961869:T	chr17	15961869	LTX166	T	A	1	9.59	8.81	8.25	7.95	
LTX166:19:36224536:G	chr19	36224536	LTX166	G	T	2	16.25	15.61	12.46	10.47	
LTX166:8:92998516:C	chr8	92998516	LTX166	C	A	2	6.68	6.62	9.77	7.94	
LTX166:10:8097641:C	chr10	8097641	LTX166	C	A	1	0.00	0.00	6.18	5.05	
LTX166:11:71725123:C	chr11	71725123	LTX166	C	A	3	22.45	18.97	10.26	8.70	
LTX166:8:32617796:G	chr8	32617796	LTX166	G	T	3	10.16	9.30	7.97	7.97	
LTX166:3:19295239:G	chr3	19295239	LTX166	G	T	4	10.07	9.37	10.79	9.91	
LTX166:1:248059738:C	chr1	248059738	LTX166	C	A	4	9.57	8.73	9.12	7.48	
LTX166:12:102045165:A	chr12	102045165	LTX166	A	T	4	9.37	8.73	10.52	8.38	
LTX166:17:7360034:T	chr17	7360034	LTX166	T	G	4	8.71	8.36	10.15	9.12	
LTX166:16:70305742:T	chr16	70305742	LTX166	T	G	4	7.25	6.74	8.25	6.49	
LTX166:8:113326772:G	chr8	113326772	LTX166	G	C	4	18.88	16.52	17.86	16.04	
LTX166:19:57327121:G	chr19	57327121	LTX166	G	C	4	12.40	11.07	9.25	9.23	
LTX166:13:52952149:C	chr13	52952149	LTX166	C	A	4	4.76	4.47	5.12	4.39	
LTX166:16:5037594:C	chr16	5037594	LTX166	C	A	4	7.32	4.48	5.37	4.10	
LTX166:19:55831784:C	chr19	55831784	LTX166	C	A	4	10.49	9.71	10.39	9.13	
LTX166:2:231906124:G	chr2	231906124	LTX166	G	T	4	9.72	8.76	6.99	5.71	
LTX166:4:57181452:C	chr4	57181452	LTX166	C	A	4	10.71	8.85	8.25	5.85	
LTX170:19:10610391:A	chr19	10610391	LTX170	A	T	2	57.03	50.56	57.19	46.69	
LTX170:2:100623381:G	chr2	100623381	LTX170	G	T	2	39.88	34.83	37.09	32.71	
LTX170:3:41266124:A	chr3	41266124	LTX170	A	G	1	35.29	31.70	33.26	31.02	
LTX170:20:30747905:G	chr20	30747905	LTX170	G	T	5	37.35	32.30	34.62	29.42	
LTX170:12:6494195:T	chr12	6494195	LTX170	T	A	4	38.69	33.68	37.50	33.05	
LTX170:20:40161941:G	chr20	40161941	LTX170	G	C	4	35.09	32.15	36.34	31.92	

LTX170:2:8916998:G	chr2	8916998	LTX170	G	T	4	36.15	32.64	31.33	29.40	
LTX170:3:39226512:C	chr3	39226512	LTX170	C	A	5	72.22	57.54	34.01	30.62	
LTX170:17:9596477:G	chr17	9596477	LTX170	G	T	4	56.76	47.97	51.78	45.84	
LTX170:8:37595500:C	chr8	37595500	LTX170	C	A	4	35.74	31.56	34.27	31.85	
LTX170:2:210559002:A	chr2	210559002	LTX170	A	G	4	38.37	35.35	33.97	31.18	
LTX170:19:19656564:C	chr19	19656564	LTX170	C	T	5	50.00	33.82	57.06	48.03	
LTX170:7:134618249:G	chr7	134618249	LTX170	G	A	5	53.44	49.95	52.65	48.13	
LTX170:19:1918968:G	chr19	1918968	LTX170	G	A	4	0.00	0.00	5.30	2.65	
LTX170:12:51865238:C	chr12	51865238	LTX170	C	T	4	5.61	3.90	5.73	3.94	
LTX170:5:176023830:C	chr5	176023830	LTX170	C	T	5	50.00	35.00	37.92	32.75	
LTX183:17:7578190:T	chr17	7578190	LTX183	T	C	1	61.27	48.15	53.75	42.89	
LTX183:17:38512306:T	chr17	38512306	LTX183	T	C	2	29.17	23.62	31.50	24.55	
LTX183:6:128304459:T	chr6	128304459	LTX183	T	A	2	24.89	18.59	23.79	18.13	
LTX183:15:40915346:A	chr15	40915346	LTX183	A	T	2	22.74	12.56	15.18	8.21	
LTX183:1:32742288:G	chr1	32742288	LTX183	G	T	3	6.97	2.37	5.00	1.67	
LTX183:11:7063774:G	chr11	7063774	LTX183	G	T	4	56.90	39.92	56.66	45.19	
LTX183:16:27483215:C	chr16	27483215	LTX183	C	G	4	37.00	30.29	34.55	26.67	
LTX183:6:169646298:G	chr6	169646298	LTX183	G	T	4	25.43	19.52	21.86	16.71	
LTX183:18:63489460:G	chr18	63489460	LTX183	G	T	4	25.92	20.78	24.10	19.77	
LTX183:18:29054285:C	chr18	29054285	LTX183	C	A	4	63.06	52.83	60.11	49.02	
LTX183:18:756629:C	chr18	756629	LTX183	C	A	4	71.02	54.91	68.64	52.94	
LTX183:1:161953526:C	chr1	161953526	LTX183	C	A	4	38.38	33.94	38.18	32.09	
LTX183:6:40399776:G	chr6	40399776	LTX183	G	T	4	28.48	22.03	25.34	19.77	
LTX183:7:142561407:C	chr7	142561407	LTX183	C	A	4	20.04	11.51	11.69	7.63	
LTX183:2:11919675:A	chr2	11919675	LTX183	A	T	4	44.27	35.46	47.93	35.47	
LTX183:9:82323576:G	chr9	82323576	LTX183	G	T	4	23.93	19.29	23.03	19.29	

LTX183:8:22009122:C	chr8	22009122	LTX183	C	A	4	19.08	7.98	19.40	8.69	
LTX183:3:197239083:C	chr3	197239083	LTX183	C	A	4	56.13	44.80	61.41	50.56	
LTX183:1:247614576:C	chr1	247614576	LTX183	C	A	4	22.74	7.58	17.20	5.86	
LTX183:2:105858758:C	chr2	105858758	LTX183	C	A	4	32.99	25.77	24.50	21.01	
LTX193:3:178952085:A	chr3	178952085	LTX193	A	G	1	28.54	20.92	26.31	20.21	
LTX193:15:74337116:A	chr15	74337116	LTX193	A	C	3	14.08	7.04	12.80	6.40	
LTX193:1:183861293:A	chr1	183861293	LTX193	A	T	4	19.38	18.46	24.28	19.85	
LTX193:9:97555200:G	chr9	97555200	LTX193	G	C	4	12.61	9.76	13.21	9.91	
LTX193:6:41559003:C	chr6	41559003	LTX193	C	G	4	13.20	13.06	12.98	12.75	
LTX193:17:31415974:C	chr17	31415974	LTX193	C	A	4	5.57	2.78	5.48	2.74	
LTX193:22:50693636:A	chr22	50693636	LTX193	A	T	4	11.50	9.38	13.50	10.89	
LTX193:1:900411:G	chr1	900411	LTX193	G	T	4	16.24	13.15	14.69	11.15	
LTX193:4:148545025:T	chr4	148545025	LTX193	T	G	4	13.59	13.45	15.99	14.43	
LTX193:2:202254585:T	chr2	202254585	LTX193	T	A	4	11.79	5.89	11.77	5.89	
LTX193:1:77588026:C	chr1	77588026	LTX193	C	A	4	15.43	14.00	15.44	11.35	
LTX193:19:4409136:A	chr19	4409136	LTX193	A	C	4	11.89	11.09	12.16	10.92	
LTX193:17:6661505:G	chr17	6661505	LTX193	G	C	4	19.16	15.94	21.55	18.23	
LTX193:17:28270616:G	chr17	28270616	LTX193	G	A	4	28.43	21.15	26.44	18.95	
LTX193:22:37603258:C	chr22	37603258	LTX193	C	G	4	25.00	12.50	6.99	3.49	
LTX193:16:20931494:G	chr16	20931494	LTX193	G	T	4	21.20	10.60	19.72	9.86	
LTX193:15:41229085:A	chr15	41229085	LTX193	A	G	4	12.28	6.17	15.18	7.59	
LTX193:17:33319614:G	chr17	33319614	LTX193	G	A	4	11.15	5.60	6.06	3.03	
LTX193:11:61257328:G	chr11	61257328	LTX193	G	A	4	7.19	3.63	5.67	2.84	
LTX223:6:128540153:G	chr6	128540153	LTX223	G	A	2	17.90	3.85	14.98	3.27	
LTX223:12:25380276:T	chr12	25380276	LTX223	T	A	1	33.63	29.52	34.72	29.12	
LTX223:19:17948799:G	chr19	17948799	LTX223	G	A	2	36.39	32.49	34.46	29.63	

LTX223:16:3823769:G	chr16	3823769	LTX223	G	A		2	36.76	33.08	38.26		31.15
LTX223:12:70956841:C	chr12	70956841	LTX223	C	A		2	33.69	29.84	34.86		29.09
LTX223:1:59247967:C	chr1	59247967	LTX223	C	G		3	36.67	14.00	32.71		13.20
LTX223:16:66881106:T	chr16	66881106	LTX223	T	A		4	33.92	29.16	30.30		28.74
LTX223:20:56098178:C	chr20	56098178	LTX223	C	A		4	11.03	8.86	8.87		7.47
LTX223:1:197053484:C	chr1	197053484	LTX223	C	A		4	67.47	57.17	60.28		51.84
LTX223:10:108439449:G	chr10	108439449	LTX223	G	T		4	35.07	30.93	31.87		27.25
LTX223:7:131122632:C	chr7	131122632	LTX223	C	A		4	38.11	33.56	31.65		28.32
LTX223:4:140640665:G	chr4	140640665	LTX223	G	C		4	26.51	22.64	31.56		26.44
LTX223:1:161683145:G	chr1	161683145	LTX223	G	T		4	33.73	30.79	19.40		17.86
LTX223:1:237947367:C	chr1	237947367	LTX223	C	A		4	21.10	18.69	21.84		18.36
LTX223:2:180008479:C	chr2	180008479	LTX223	C	A		4	24.27	18.62	23.02		17.33
LTX223:2:88367465:T	chr2	88367465	LTX223	T	A		4	58.36	48.71	57.28		43.63
LTX223:16:87744981:C	chr16	87744981	LTX223	C	A		4	78.38	67.84	32.30		27.07
LTX223:1:236898981:C	chr1	236898981	LTX223	C	A		4	60.82	56.11	57.41		54.56
LTX223:11:114027139:A	chr11	114027139	LTX223	A	T		3	34.54	31.08	31.02		25.19
LTX227:13:103518682:A	chr13	103518682	LTX227	A	C		1	5.21	1.30	6.82		1.70
LTX227:19:11144123:A	chr19	11144123	LTX227	A	G		1	36.90	34.14	57.59		48.14
LTX227:12:131286011:G	chr12	131286011	LTX227	G	C		2	12.67	3.19	11.61		2.90
LTX227:1:100155391:G	chr1	100155391	LTX227	G	C		4	34.77	32.19	35.72		31.53
LTX227:9:100092681:A	chr9	100092681	LTX227	A	C		4	8.37	2.10	9.44		2.36
LTX227:2:179412185:C	chr2	179412185	LTX227	C	G		4	16.45	4.34	15.17		3.79
LTX227:5:13841114:C	chr5	13841114	LTX227	C	G		4	13.35	12.64	13.87		12.14
LTX227:10:89311887:G	chr10	89311887	LTX227	G	T		4	44.77	37.42	42.68		35.82
LTX227:10:75305393:A	chr10	75305393	LTX227	A	T		4	12.16	3.04	12.11		3.03
LTX227:1:15361347:G	chr1	15361347	LTX227	G	C		4	6.97	1.74	9.54		2.45

LTX227:5:19483462:A	chr5	19483462	LTX227	A	C	4	14.55	13.88	13.93		11.82	
LTX227:11:111796705:A	chr11	111796705	LTX227	A	G	4	34.93	30.91	35.57		31.09	
LTX227:10:123970420:G	chr10	123970420	LTX227	G	C	4	30.38	25.06	33.10		25.35	
LTX227:11:12904658:C	chr11	12904658	LTX227	C	T	4	12.45	3.16	8.18		2.04	
LTX227:17:27183361:C	chr17	27183361	LTX227	C	G	5	15.29	3.82	13.35		3.34	
LTX227:5:81614068:G	chr5	81614068	LTX227	G	C	5	36.46	33.32	41.03		37.23	
LTX227:18:28935056:G	chr18	28935056	LTX227	G	A	4	5.48	1.38	5.17		1.29	
LTX227:2:215919324:C	chr2	215919324	LTX227	C	T	4	13.53	3.39	13.47		3.40	
LTX227:20:51873087:C	chr20	51873087	LTX227	C	T	5	35.63	32.37	33.16		29.31	
LTX227:1:200801898:A	chr1	200801898	LTX227	A	G	5	6.57	1.65	7.01		1.75	
LTX242:4:187549878:G	chr4	187549878	LTX242	G	A	2	5.56	2.78	6.20		3.10	
LTX242:17:7578461:C	chr17	7578461	LTX242	C	A	1	16.38	15.59	17.51		15.51	
LTX242:4:170028027:C	chr4	170028027	LTX242	C	G	4	6.76	4.32	6.27		4.10	
LTX242:2:170789445:G	chr2	170789445	LTX242	G	C	4	3.10	1.55	5.61		2.90	
LTX242:19:52148744:T	chr19	52148744	LTX242	T	A	4	14.34	11.81	11.22		10.35	
LTX242:1:23419178:C	chr1	23419178	LTX242	C	G	4	3.42	1.88	5.11		2.69	
LTX242:7:94293806:C	chr7	94293806	LTX242	C	G	4	13.33	12.69	14.12		13.62	
LTX242:20:23586282:G	chr20	23586282	LTX242	G	T	4	11.92	10.90	12.97		11.98	
LTX242:4:90169956:C	chr4	90169956	LTX242	C	G	4	6.77	3.89	7.62		4.14	
LTX242:2:20974648:G	chr2	20974648	LTX242	G	T	4	14.02	12.94	12.90		12.68	
LTX242:14:52509589:C	chr14	52509589	LTX242	C	A	4	14.20	13.11	11.57		10.97	
LTX242:21:15746063:C	chr21	15746063	LTX242	C	A	4	13.87	12.86	14.76		13.47	
LTX242:2:168726250:C	chr2	168726250	LTX242	C	G	4	11.99	11.35	12.25		10.91	
LTX242:20:41385131:A	chr20	41385131	LTX242	A	T	4	12.03	11.98	11.20		10.54	
LTX242:19:50792785:G	chr19	50792785	LTX242	G	T	5	14.49	12.36	16.97		13.44	
LTX242:5:1394859:G	chr5	1394859	LTX242	G	C	5	12.22	11.75	8.89		8.29	

LTX242:1:15986430:G	chr1	15986430	LTX242	G	C	4	14.41	12.76	11.33		10.53	
LTX242:13:114622561:G	chr13	114622561	LTX242	G	C	4	11.54	10.78	15.51		12.63	
LTX121:5:1278910:A	chr5	1278910	LTX121	A	G	3	10.63	5.31	7.96		4.06	
LTX143:16:1497665:T	chr16	1497665	LTX143	T	C	5	18.18	9.09	19.53		10.02	
LTX183:14:70235955:G	chr14	70235955	LTX183	G	C	4	4.41	1.47	5.74		1.91	
LTX183:12:43833461:A	chr12	43833461	LTX183	A	T	4	2.16	0.73	5.56		1.85	
LTX223:5:150518972:G	chr5	150518972	LTX223	G	A	4	50.00	10.00	9.51		1.90	
LTX223:12:52448422:G	chr12	52448422	LTX223	G	A	4	20.20	4.08	17.62		3.56	
LTX012:12:48387627:C	chr12	48387627	LTX012	C	T	1	18.12	18.08	20.45		19.68	
LTX012:7:101844729:G	chr7	101844729	LTX012	G	A	2	22.02	17.95	20.53		19.37	
LTX012:16:64981840:C	chr16	64981840	LTX012	C	T	2	26.93	26.82	25.04		23.58	
LTX012:9:37020745:G	chr9	37020745	LTX012	G	T	2	37.52	36.00	39.11		34.56	
LTX012:1:11174405:C	chr1	11174405	LTX012	C	T	2	28.20	27.85	36.70		31.46	
LTX012:5:158223429:G	chr5	158223429	LTX012	G	T	2	60.92	58.31	53.80		49.34	
LTX012:8:42179593:G	chr8	42179593	LTX012	G	A	2	17.78	17.63	21.41		18.02	
LTX012:1:205631234:C	chr1	205631234	LTX012	C	A	2	34.09	33.89	38.36		36.67	
LTX012:1:115256530:G	chr1	115256530	LTX012	G	T	1	18.64	18.43	17.06		15.50	
LTX012:8:93003952:C	chr8	93003952	LTX012	C	A	3	40.63	39.52	49.11		48.90	
LTX012:19:36212005:G	chr19	36212005	LTX012	G	T	3	45.39	44.57	51.55		47.30	
LTX012:1:3328693:G	chr1	3328693	LTX012	G	T	3	0.00	0.00	24.88		22.92	
LTX012:1:111060896:C	chr1	111060896	LTX012	C	A	4	38.97	36.66	33.55		30.20	
LTX012:4:164246802:C	chr4	164246802	LTX012	C	A	4	36.52	36.31	40.95		38.54	
LTX012:7:40789062:G	chr7	40789062	LTX012	G	T	4	37.37	36.76	36.87		33.81	
LTX012:12:1009651:C	chr12	1009651	LTX012	C	G	4	70.31	68.30	73.77		73.01	
LTX012:3:431037:C	chr3	431037	LTX012	C	A	4	57.78	57.12	54.14		51.22	
LTX012:8:17726111:T	chr8	17726111	LTX012	T	A	4	38.21	37.07	41.55		39.73	

LTX012:7:120373029:G	chr7	120373029	LTX012	G	T	4	37.56	36.94	37.07	34.84	
LTX051:17:7577130:A	chr17	7577130	LTX051	A	G	1	38.26	23.02	40.76	37.30	
LTX051:5:176707578:A	chr5	176707578	LTX051	A	G	2	27.38	16.43	28.71	25.48	
LTX051:7:55259515:T	chr7	55259515	LTX051	T	G	1	24.68	14.92	24.05	21.88	
LTX051:18:61264442:G	chr18	61264442	LTX051	G	T	2	7.69	2.56	6.12	3.13	
LTX051:9:2032967:C	chr9	2032967	LTX051	C	G	4	11.84	6.16	12.46	9.55	
LTX051:12:6062702:C	chr12	6062702	LTX051	C	A	4	8.44	4.92	8.76	6.27	
LTX051:12:122614594:G	chr12	122614594	LTX051	G	T	4	20.22	11.73	19.00	15.47	
LTX051:19:11475076:A	chr19	11475076	LTX051	A	T	4	7.46	4.87	10.68	8.83	
LTX051:7:103159854:C	chr7	103159854	LTX051	C	A	4	9.63	5.58	7.74	7.60	
LTX051:7:121652018:A	chr7	121652018	LTX051	A	C	4	9.75	5.89	7.78	7.42	
LTX051:1:94996065:G	chr1	94996065	LTX051	G	C	4	5.88	2.67	6.81	4.93	
LTX051:9:109697887:C	chr9	109697887	LTX051	C	A	4	10.56	6.00	10.34	7.70	
LTX051:3:164906700:G	chr3	164906700	LTX051	G	T	4	9.33	5.26	14.74	9.53	
LTX051:16:70500853:T	chr16	70500853	LTX051	T	A	4	9.45	3.15	5.56	2.78	
LTX051:17:67537889:G	chr17	67537889	LTX051	G	T	4	5.33	1.78	6.57	3.28	
LTX051:11:133714205:A	chr11	133714205	LTX051	A	T	4	6.72	2.24	7.89	3.95	
LTX051:14:42356281:G	chr14	42356281	LTX051	G	T	4	9.21	5.25	8.04	7.28	
LTX051:17:56692641:C	chr17	56692641	LTX051	C	A	4	5.47	1.82	6.92	3.46	
LTX118:1:198725228:G	chr1	198725228	LTX118	G	A	2	22.55	22.43	19.69	19.58	
LTX118:10:101646123:G	chr10	101646123	LTX118	G	T	4	23.86	23.74	22.87	20.94	
LTX118:1:19209667:A	chr1	19209667	LTX118	A	C	4	3.42	3.13	9.86	8.26	
LTX118:12:20766548:G	chr12	20766548	LTX118	G	T	4	11.64	10.76	12.32	12.20	
LTX118:10:18331694:T	chr10	18331694	LTX118	T	A	4	11.17	10.25	9.28	9.00	
LTX118:19:6501555:C	chr19	6501555	LTX118	C	G	4	23.19	22.06	20.28	20.04	
LTX118:8:52233392:C	chr8	52233392	LTX118	C	A	4	2.99	1.51	5.54	2.77	

LTX118:16:77401604:G	chr16	77401604	LTX118	G	T	4	11.89	11.43	10.91		10.08
LTX118:5:178050390:G	chr5	178050390	LTX118	G	A	4	16.27	12.49	17.55		12.24
LTX118:1:151641035:G	chr1	151641035	LTX118	G	A	4	14.75	13.18	14.07		12.90
LTX118:6:155728276:T	chr6	155728276	LTX118	T	C	4	21.23	20.74	20.39		19.53
LTX118:9:113208209:C	chr9	113208209	LTX118	C	T	4	24.67	23.16	24.29		24.03
LTX118:7:150779635:C	chr7	150779635	LTX118	C	T	4	5.56	4.95	8.65		8.49
LTX118:17:78071139:G	chr17	78071139	LTX118	G	A	5	9.08	8.43	9.27		8.63
LTX118:10:106982911:T	chr10	106982911	LTX118	T	A	5	13.01	12.00	11.14		10.36
LTX118:20:41306638:C	chr20	41306638	LTX118	C	T	4	12.83	12.52	12.32		12.07
LTX118:1:22191398:G	chr1	22191398	LTX118	G	A	4	50.00	25.00	15.75		14.48
LTX118:11:55861145:A	chr11	55861145	LTX118	A	G	4	21.77	21.19	20.62		20.50
LTX118:7:2687664:G	chr7	2687664	LTX118	G	A	4	10.81	9.46	8.08		7.76
LTX136:1:164781345:A	chr1	164781345	LTX136	A	T	2	43.14	40.28	42.09		40.16
LTX136:14:96180348:C	chr14	96180348	LTX136	C	A	2	89.61	83.65	93.53		87.03
LTX136:4:41750621:T	chr4	41750621	LTX136	T	C	1	57.10	52.43	59.55		55.63
LTX136:7:2949762:G	chr7	2949762	LTX136	G	T	2	52.63	46.22	59.12		49.47
LTX136:4:1961405:A	chr4	1961405	LTX136	A	T	2	58.44	53.66	54.62		49.71
LTX136:1:16245532:A	chr1	16245532	LTX136	A	G	1	29.42	24.82	27.93		23.01
LTX136:6:135520142:C	chr6	135520142	LTX136	C	G	2	84.81	77.67	81.79		74.45
LTX136:12:6701974:C	chr12	6701974	LTX136	C	A	2	29.81	27.92	29.23		26.46
LTX136:2:29446293:A	chr2	29446293	LTX136	A	T	2	42.99	33.75	43.12		32.25
LTX136:15:52605900:C	chr15	52605900	LTX136	C	A	3	84.58	77.04	84.62		80.04
LTX136:1:248004592:A	chr1	248004592	LTX136	A	T	4	46.59	40.10	43.52		39.23
LTX136:5:66396371:G	chr5	66396371	LTX136	G	T	4	85.87	79.23	88.19		79.52
LTX136:7:137801368:G	chr7	137801368	LTX136	G	T	4	38.21	33.20	33.94		29.20
LTX136:9:77354757:G	chr9	77354757	LTX136	G	C	4	84.89	77.27	83.98		75.90

LTX136:11:6806292:G	chr11	6806292	LTX136	G	T		4	86.14	78.58	81.41		76.33
LTX136:7:96115674:T	chr7	96115674	LTX136	T	G		4	9.74	3.25	9.35		3.12
LTX136:20:9440377:C	chr20	9440377	LTX136	C	A		4	37.17	31.53	37.18		31.59
LTX136:2:33505192:G	chr2	33505192	LTX136	G	T		4	43.09	34.82	33.05		27.86
LTX136:15:89415268:C	chr15	89415268	LTX136	C	A		4	28.43	24.15	24.60		19.76
LTX136:2:220155017:G	chr2	220155017	LTX136	G	C		4	41.18	38.97	44.13		37.26
LTX137:10:98145831:A	chr10	98145831	LTX137	A	C		4	17.53	16.36	15.77		14.63
LTX137:7:44185326:G	chr7	44185326	LTX137	G	C		4	16.67	8.33	17.72		16.48
LTX137:22:40798153:C	chr22	40798153	LTX137	C	T		4	20.03	17.83	14.94		13.84
LTX137:6:44272830:G	chr6	44272830	LTX137	G	A		4	17.10	12.92	15.19		10.96
LTX137:3:50404528:G	chr3	50404528	LTX137	G	A		4	18.40	15.84	20.90		18.81
LTX137:16:1497467:C	chr16	1497467	LTX137	C	T		4	9.09	6.93	16.90		15.11
LTX137:14:101350706:G	chr14	101350706	LTX137	G	A		5	18.29	17.00	18.18		17.06
LTX137:17:3524605:C	chr17	3524605	LTX137	C	T		4	20.77	18.22	16.43		13.19
LTX137:6:49483377:G	chr6	49483377	LTX137	G	A		5	19.80	16.66	14.36		14.08
LTX137:9:138670633:C	chr9	138670633	LTX137	C	T		5	10.00	9.55	20.74		17.13
LTX137:8:124267300:T	chr8	124267300	LTX137	T	C		4	19.66	17.27	17.65		15.47
LTX137:19:48389454:C	chr19	48389454	LTX137	C	T		4	24.21	22.41	17.86		15.08
LTX196:12:6690290:T	chr12	6690290	LTX196	T	C		2	18.76	9.38	22.95		11.47
LTX196:9:139413126:C	chr9	139413126	LTX196	C	T		2	36.36	20.81	57.31		34.30
LTX196:2:25966523:T	chr2	25966523	LTX196	T	C		2	48.37	31.63	47.98		31.76
LTX196:2:178098810:C	chr2	178098810	LTX196	C	G		1	32.28	16.14	31.72		15.92
LTX196:12:122839700:C	chr12	122839700	LTX196	C	G		2	20.17	10.11	17.25		8.62
LTX196:4:187630700:G	chr4	187630700	LTX196	G	T		2	48.37	31.40	44.48		29.44
LTX196:4:55127446:C	chr4	55127446	LTX196	C	A		2	37.51	26.92	34.00		24.47
LTX196:15:42028634:A	chr15	42028634	LTX196	A	G		2	14.15	9.24	16.57		11.90

LTX196:4:55964374:C	chr4	55964374	LTX196	C	A	3	38.40	27.45	36.57		25.87	
LTX196:11:35492158:C	chr11	35492158	LTX196	C	G	4	39.99	26.53	34.83		22.86	
LTX196:7:4285420:G	chr7	4285420	LTX196	G	T	4	28.71	19.05	29.86		19.83	
LTX196:13:43180688:C	chr13	43180688	LTX196	C	G	4	18.15	9.07	17.74		8.87	
LTX196:9:117139437:G	chr9	117139437	LTX196	G	C	4	18.61	9.30	18.22		9.11	
LTX196:9:37746099:A	chr9	37746099	LTX196	A	T	4	35.75	25.09	34.43		23.43	
LTX196:2:27448053:G	chr2	27448053	LTX196	G	C	4	21.27	10.64	16.42		8.21	
LTX196:22:40362142:G	chr22	40362142	LTX196	G	C	4	42.00	26.74	40.73		25.26	
LTX196:16:2814836:C	chr16	2814836	LTX196	C	G	4	16.29	8.15	15.17		7.58	
LTX196:4:94006209:G	chr4	94006209	LTX196	G	T	4	19.51	12.85	14.39		10.50	
LTX216:1:150902451:C	chr1	150902451	LTX216	C	G	2	6.07	3.03	5.78		3.04	
LTX216:19:52076607:C	chr19	52076607	LTX216	C	A	4	27.30	20.98	27.08		19.79	
LTX216:14:74401044:C	chr14	74401044	LTX216	C	A	4	17.41	14.42	16.94		13.36	
LTX216:1:26691630:T	chr1	26691630	LTX216	T	A	4	8.74	4.37	7.44		3.72	
LTX216:22:32257386:C	chr22	32257386	LTX216	C	A	4	24.18	18.53	22.49		16.01	
LTX216:17:38126860:C	chr17	38126860	LTX216	C	A	4	11.91	5.96	6.42		3.21	
LTX216:6:26045641:G	chr6	26045641	LTX216	G	T	4	14.53	12.05	13.62		9.79	
LTX216:7:128452932:G	chr7	128452932	LTX216	G	C	4	23.30	17.39	20.18		15.16	
LTX216:11:61050308:G	chr11	61050308	LTX216	G	T	4	13.59	6.80	15.13		7.56	
LTX216:2:155711700:G	chr2	155711700	LTX216	G	C	4	8.93	4.46	6.68		3.34	
LTX216:16:27221703:G	chr16	27221703	LTX216	G	A	4	40.03	33.27	37.66		31.28	
LTX216:12:2714893:G	chr12	2714893	LTX216	G	A	4	9.07	4.57	6.16		3.08	
LTX216:19:45916983:G	chr19	45916983	LTX216	G	T	5	62.04	45.93	59.00		42.99	
LTX216:1:111146597:G	chr1	111146597	LTX216	G	A	5	11.40	5.70	9.07		4.54	
LTX216:8:41166184:G	chr8	41166184	LTX216	G	C	5	16.67	8.33	7.45		3.72	
LTX216:20:33523435:C	chr20	33523435	LTX216	C	T	4	22.56	17.11	22.22		16.92	

LTX216:1:1231396:G	chr1	1231396	LTX216	G	A	4	2.27	1.14	10.25		5.13
LTX216:1:197411404:C	chr1	197411404	LTX216	C	T	5	7.23	3.61	6.27		3.18
LTX240:3:52595892:C	chr3	52595892	LTX240	C	A	1	35.61	26.15	38.06		24.64
LTX240:20:31025116:G	chr20	31025116	LTX240	G	T	1	25.85	19.28	25.31		17.40
LTX240:17:53345388:C	chr17	53345388	LTX240	C	T	2	41.18	27.62	42.03		31.14
LTX240:13:20567277:C	chr13	20567277	LTX240	C	T	2	23.66	19.64	22.58		17.43
LTX240:22:36714329:C	chr22	36714329	LTX240	C	T	2	18.51	12.65	14.13		10.85
LTX240:14:67389569:G	chr14	67389569	LTX240	G	C	2	25.29	19.18	21.18		15.26
LTX240:16:15814067:G	chr16	15814067	LTX240	G	C	2	29.00	19.14	22.04		16.33
LTX240:4:55139775:G	chr4	55139775	LTX240	G	T	3	12.86	11.21	12.80		9.19
LTX240:11:102980342:C	chr11	102980342	LTX240	C	G	4	25.19	18.40	22.86		16.61
LTX240:11:68703707:G	chr11	68703707	LTX240	G	C	4	26.14	18.69	20.88		17.18
LTX240:3:50151524:G	chr3	50151524	LTX240	G	C	4	35.81	25.29	37.69		26.53
LTX240:3:48456305:G	chr3	48456305	LTX240	G	C	4	13.55	10.76	13.60		10.26
LTX240:17:76565463:G	chr17	76565463	LTX240	G	C	4	35.29	26.92	34.82		24.52
LTX240:9:119139871:C	chr9	119139871	LTX240	C	A	4	33.98	25.41	29.70		20.81
LTX240:15:51350521:C	chr15	51350521	LTX240	C	G	4	17.07	13.66	16.90		12.59
LTX240:17:19700759:C	chr17	19700759	LTX240	C	G	4	33.12	25.26	26.40		22.37
LTX240:3:193854264:C	chr3	193854264	LTX240	C	G	4	10.66	7.10	11.01		8.34
LTX240:17:7348637:C	chr17	7348637	LTX240	C	G	4	8.70	5.56	35.45		25.78
LTX252:4:55129865:G	chr4	55129865	LTX252	G	T	2	8.94	8.49	7.73		6.39
LTX252:10:8106040:G	chr10	8106040	LTX252	G	T	1	9.10	7.71	9.61		7.39
LTX252:7:92247484:C	chr7	92247484	LTX252	C	A	2	10.59	8.56	10.30		8.52
LTX252:7:75186999:C	chr7	75186999	LTX252	C	A	2	5.36	4.76	5.56		3.71
LTX252:12:48380209:C	chr12	48380209	LTX252	C	A	1	10.88	9.55	10.08		9.79
LTX252:17:7578469:C	chr17	7578469	LTX252	C	A	1	5.64	4.57	7.31		5.12

LTX252:4:55561808:G	chr4	55561808	LTX252	G	T	2	8.66	7.86	10.04	7.80	
LTX252:16:9857510:G	chr16	9857510	LTX252	G	T	2	5.05	4.31	5.36	4.58	
LTX252:14:95597932:C	chr14	95597932	LTX252	C	A	1	10.85	9.46	11.48	8.51	
LTX252:1:43805193:A	chr1	43805193	LTX252	A	T	3	10.32	8.68	11.26	9.63	
LTX252:6:116574258:T	chr6	116574258	LTX252	T	A	4	9.81	8.58	7.77	6.72	
LTX252:11:36615266:A	chr11	36615266	LTX252	A	T	4	11.35	9.55	12.15	9.61	
LTX252:12:18243048:C	chr12	18243048	LTX252	C	A	4	16.37	13.91	14.66	11.57	
LTX252:7:111395595:C	chr7	111395595	LTX252	C	G	4	7.92	6.98	10.10	9.31	
LTX252:12:43840457:C	chr12	43840457	LTX252	C	A	4	4.77	4.23	6.31	4.35	
LTX252:11:116633520:T	chr11	116633520	LTX252	T	A	4	10.21	8.71	10.20	8.27	
LTX252:19:58850105:G	chr19	58850105	LTX252	G	T	4	7.98	7.27	6.97	6.62	
LTX252:22:26388344:G	chr22	26388344	LTX252	G	T	4	9.86	8.15	6.96	6.00	
LTX252:5:153175143:G	chr5	153175143	LTX252	G	T	4	11.20	9.07	8.28	7.34	
LTX136.1:26308858:C	chr1	26308858	LTX136	C	A	4	25.73	9.87	22.19	8.82	
LTX196:10:12154938:G	chr10	12154938	LTX196	G	C	4	5.70	2.85	6.52	3.26	
LTX240.12:109331093:C	chr12	109331093	LTX240	C	G	4	5.45	1.82	5.47	1.86	
LTX082.8:103293638:G	chr8	103293638	LTX082	G	A	1	9.37	6.07	7.99	5.62	
LTX082:9:135982542:C	chr9	135982542	LTX082	C	A	2	36.77	20.02	28.35	14.89	
LTX082.8:118831997:T	chr8	118831997	LTX082	T	A	2	44.65	16.81	45.17	17.21	
LTX082.2:100167964:C	chr2	100167964	LTX082	C	A	2	24.16	12.12	23.63	13.60	
LTX082.7:27222434:G	chr7	27222434	LTX082	G	T	2	7.73	4.53	7.86	4.73	
LTX082.1:204518721:C	chr1	204518721	LTX082	C	A	3	8.63	2.19	7.51	1.94	
LTX082.14:21899722:C	chr14	21899722	LTX082	C	A	3	29.96	17.08	34.09	17.62	
LTX082.10:34690803:C	chr10	34690803	LTX082	C	A	4	36.68	19.35	33.50	17.81	
LTX082.13:96293619:T	chr13	96293619	LTX082	T	A	4	47.07	21.78	27.41	12.10	
LTX082.7:148702405:A	chr7	148702405	LTX082	A	T	4	21.69	9.79	21.76	10.05	

LTX082:13:103718491:C	chr13	103718491	LTX082	C	A	4	13.51	6.23	10.02	4.44	
LTX082:8:109797309:C	chr8	109797309	LTX082	C	A	4	46.81	17.99	36.86	13.12	
LTX082:1:237802339:A	chr1	237802339	LTX082	A	T	4	28.52	13.42	30.16	13.59	
LTX082:12:99640280:C	chr12	99640280	LTX082	C	A	4	10.99	4.49	9.21	3.93	
LTX082:14:73578470:A	chr14	73578470	LTX082	A	T	4	22.04	12.35	20.32	10.85	
LTX082:3:35732394:C	chr3	35732394	LTX082	C	G	4	14.19	5.25	13.94	5.00	
LTX082:1:247463910:C	chr1	247463910	LTX082	C	A	4	20.95	10.44	15.89	8.14	
LTX031:9:123917151:T	chr9	123917151	LTX031	T	C	2	6.71	5.26	9.28	7.16	
LTX031:10:22002742:G	chr10	22002742	LTX031	G	T	2	7.14	5.31	6.83	6.15	
LTX031:19:11132515:G	chr19	11132515	LTX031	G	C	1	11.32	9.35	10.70	7.47	
LTX031:17:7577046:C	chr17	7577046	LTX031	C	A	1	12.36	8.84	13.55	9.05	
LTX031:5:127668682:C	chr5	127668682	LTX031	C	A	4	6.31	4.53	7.04	5.34	
LTX031:11:55579738:A	chr11	55579738	LTX031	A	C	4	4.92	3.68	7.14	4.81	
LTX031:14:69813796:G	chr14	69813796	LTX031	G	C	4	7.78	5.75	8.27	5.72	
LTX031:2:63182781:A	chr2	63182781	LTX031	A	T	4	6.76	4.81	6.33	5.38	
LTX031:19:17611154:A	chr19	17611154	LTX031	A	T	4	11.08	9.77	7.11	6.20	
LTX031:5:131553001:C	chr5	131553001	LTX031	C	A	4	6.09	4.58	7.21	5.85	
LTX031:5:10390610:G	chr5	10390610	LTX031	G	T	4	6.49	4.53	9.00	6.06	
LTX031:2:235950893:A	chr2	235950893	LTX031	A	T	4	7.08	5.77	7.49	6.64	
LTX031:13:92797222:G	chr13	92797222	LTX031	G	T	4	9.42	7.07	14.21	9.21	
LTX031:11:4389327:T	chr11	4389327	LTX031	T	A	4	7.93	5.64	10.39	6.15	
LTX031:19:9049247:G	chr19	9049247	LTX031	G	C	4	4.97	4.46	7.05	5.64	
LTX031:20:3214923:G	chr20	3214923	LTX031	G	T	4	12.50	11.64	9.82	7.03	
LTX031:17:40054897:C	chr17	40054897	LTX031	C	A	4	4.40	3.14	14.39	7.54	
LTX031:2:177034045:G	chr2	177034045	LTX031	G	T	4	7.32	5.06	6.28	3.56	
LTX031:5:140730550:G	chr5	140730550	LTX031	G	T	4	8.65	6.94	7.15	5.62	

LTX043:16:2226286:G	chr16	2226286	LTX043	G	T	2	16.67	9.52	11.28	8.85	
LTX043:8:41547755:G	chr8	41547755	LTX043	G	T	4	8.13	4.06	8.40	4.20	
LTX043:18:56058732:T	chr18	56058732	LTX043	T	A	5	13.74	10.20	12.61	10.29	
LTX043:5:129070769:A	chr5	129070769	LTX043	A	T	4	10.31	6.82	10.68	6.61	
LTX043:4:183721155:C	chr4	183721155	LTX043	C	T	4	0.00	0.00	12.33	9.46	
LTX043:17:28656289:G	chr17	28656289	LTX043	G	A	4	13.23	10.14	8.63	6.13	
LTX043:5:11346635:C	chr5	11346635	LTX043	C	T	4	52.52	48.74	12.67	9.98	
LTX043:12:91347889:G	chr12	91347889	LTX043	G	A	4	12.50	6.25	13.15	9.94	
LTX043:1:22848732:C	chr1	22848732	LTX043	C	T	4	20.56	13.81	17.58	12.53	
LTX043:17:9729424:C	chr17	9729424	LTX043	C	T	4	16.14	12.83	14.38	11.23	
LTX043:11:64878923:A	chr11	64878923	LTX043	A	G	4	9.62	7.75	10.09	8.50	
LTX043:11:28058010:G	chr11	28058010	LTX043	G	A	4	13.95	10.99	10.74	9.15	
LTX043:12:62974144:A	chr12	62974144	LTX043	A	G	4	12.61	9.77	12.00	10.13	
LTX043:2:26533649:C	chr2	26533649	LTX043	C	T	4	14.17	7.11	13.52	6.89	
LTX043:3:39229451:G	chr3	39229451	LTX043	G	A	5	14.65	11.33	14.41	10.51	
LTX043:4:37445949:C	chr4	37445949	LTX043	C	T	4	4.62	2.31	5.28	2.64	
LTX043:1:154313404:C	chr1	154313404	LTX043	C	T	4	5.80	2.95	5.74	2.87	
LTX043:5:138716491:C	chr5	138716491	LTX043	C	T	5	0.71	0.35	5.80	2.90	
LTX050:17:78341894:T	chr17	78341894	LTX050	T	G	2	50.52	45.17	51.07	45.00	
LTX050:6:7581615:A	chr6	7581615	LTX050	A	C	4	17.02	15.32	19.91	17.41	
LTX050:5:148632333:A	chr5	148632333	LTX050	A	T	4	6.84	6.17	7.02	5.51	
LTX050:2:179604479:C	chr2	179604479	LTX050	C	G	4	23.30	21.05	24.20	20.73	
LTX050:6:160543343:G	chr6	160543343	LTX050	G	C	4	21.48	13.20	17.76	10.84	
LTX050:5:140237536:G	chr5	140237536	LTX050	G	T	4	0.00	0.00	6.89	3.90	
LTX050:1:192779527:G	chr1	192779527	LTX050	G	T	4	6.87	1.37	5.74	1.15	
LTX050:8:145151964:C	chr8	145151964	LTX050	C	A	4	7.59	1.54	7.32	1.46	

LTX050:6:43015972:C	chr6	43015972	LTX050	C	A	4	6.40	1.28	7.83		1.57	
LTX050:6:130407355:G	chr6	130407355	LTX050	G	C	4	6.06	1.21	5.69		1.14	
LTX050:11:66311266:C	chr11	66311266	LTX050	C	A	5	14.71	2.94	11.06		2.29	
LTX050:16:50828189:G	chr16	50828189	LTX050	G	A	2	6.32	1.29	6.18		1.24	
LTX050:1:228336404:G	chr1	228336404	LTX050	G	C	4	5.61	1.12	7.17		1.43	
LTX050:11:59361594:G	chr11	59361594	LTX050	G	T	5	8.88	1.78	8.90		1.78	
LTX050:15:24924460:G	chr15	24924460	LTX050	G	C	4	6.40	1.28	6.29		1.26	
LTX050:9:137716677:C	chr9	137716677	LTX050	C	G	4	6.67	1.33	14.60		7.41	
LTX050:4:46994867:G	chr4	46994867	LTX050	G	C	4	10.10	5.47	7.76		4.43	
LTX050:13:41905487:C	chr13	41905487	LTX050	C	A	4	11.83	6.62	11.92		6.43	
LTX050:1:32742000:C	chr1	32742000	LTX050	C	G	2	18.27	13.24	22.64		13.09	
LTX050:2:75720594:T	chr2	75720594	LTX050	T	C	4	7.36	1.54	11.08		2.28	
LTX064:10:90773919:G	chr10	90773919	LTX064	G	A	1	5.23	0.80	5.39		0.77	
LTX064:6:168299035:C	chr6	168299035	LTX064	C	T	2	3.87	0.98	7.18		2.05	
LTX064:10:98105810:A	chr10	98105810	LTX064	A	T	4	37.91	5.42	36.57		5.22	
LTX064:9:36169923:C	chr9	36169923	LTX064	C	G	4	6.99	1.00	5.60		0.80	
LTX064:3:49397783:C	chr3	49397783	LTX064	C	A	2	18.43	2.64	15.27		2.21	
LTX064:8:41792326:G	chr8	41792326	LTX064	G	C	2	17.69	2.56	17.90		2.63	
LTX064:17:7577121:G	chr17	7577121	LTX064	G	A	1	79.53	49.45	76.51		48.38	
LTX064:6:55216167:G	chr6	55216167	LTX064	G	T	4	46.56	24.75	44.79		22.52	
LTX064:17:61498333:A	chr17	61498333	LTX064	A	T	4	59.08	25.74	55.82		25.14	
LTX064:15:74327583:C	chr15	74327583	LTX064	C	A	2	43.96	6.49	31.18		4.57	
LTX064:7:151879502:C	chr7	151879502	LTX064	C	G	2	8.57	1.24	9.73		1.42	
LTX064:10:85972865:G	chr10	85972865	LTX064	G	C	4	31.11	9.98	32.92		9.84	
LTX064:1:144859920:C	chr1	144859920	LTX064	C	T	2	22.05	7.42	20.22		6.96	
LTX064:17:41245378:G	chr17	41245378	LTX064	G	A	2	40.57	11.84	36.59		10.93	

LTX064:5:35876314:G	chr5	35876314	LTX064	G	A	2	7.00	1.07	5.33	0.80	
LTX064:11:62416083:C	chr11	62416083	LTX064	C	A	4	6.75	0.96	7.42	1.06	
LTX064:1:202705388:C	chr1	202705388	LTX064	C	A	4	14.33	3.52	14.65	3.94	
LTX064:13:52707300:C	chr13	52707300	LTX064	C	A	4	40.29	9.56	36.45	8.67	
LTX064 8:103357729:G	chr8	103357729	LTX064	G	A	1	14.00	4.87	13.64	4.60	
LTX064:4:114275220:G	chr4	114275220	LTX064	G	C	4	29.89	7.50	23.78	6.03	
LTX108:14:56103197:G	chr14	56103197	LTX108	G	T	3	7.26	5.92	6.54	5.09	
LTX108.4:31144238:C	chr4	31144238	LTX108	C	A	4	8.64	8.57	7.54	7.47	
LTX108.2:210786307:G	chr2	210786307	LTX108	G	T	4	8.07	6.72	6.73	4.39	
LTX108.7:150490198:C	chr7	150490198	LTX108	C	A	4	6.41	5.64	8.39	6.77	
LTX108.5:150922074:G	chr5	150922074	LTX108	G	C	4	5.85	4.82	9.58	6.74	
LTX108.15:65759434:T	chr15	65759434	LTX108	T	G	4	8.38	6.60	5.78	4.90	
LTX108.12:96437132:A	chr12	96437132	LTX108	A	C	4	6.94	6.34	8.29	5.46	
LTX108.6:109762353:G	chr6	109762353	LTX108	G	T	4	5.88	4.41	5.23	5.08	
LTX108.7:98256550:G	chr7	98256550	LTX108	G	T	4	11.26	8.13	5.17	3.85	
LTX108.12:93100715:G	chr12	93100715	LTX108	G	T	4	8.20	6.95	5.79	5.39	
LTX108.5:96071930:A	chr5	96071930	LTX108	A	T	4	6.45	5.68	5.71	5.06	
LTX108.8:2975974:G	chr8	2975974	LTX108	G	T	4	7.07	6.28	5.40	4.69	
LTX108.15:50288919:T	chr15	50288919	LTX108	T	A	4	9.99	8.38	8.76	7.57	
LTX108.11:33731800:A	chr11	33731800	LTX108	A	C	4	7.29	5.85	5.02	4.93	
LTX108.5:150723106:G	chr5	150723106	LTX108	G	T	4	6.71	5.69	6.38	5.75	
LTX108.11:5969447:C	chr11	5969447	LTX108	C	A	4	7.44	5.79	6.10	4.86	
LTX108.14:38724919:G	chr14	38724919	LTX108	G	T	4	15.79	7.89	5.07	4.93	
LTX108.11:4661941:G	chr11	4661941	LTX108	G	T	4	7.12	6.12	5.24	4.69	
LTX108.1:158435860:C	chr1	158435860	LTX108	C	G	4	6.08	3.04	6.58	3.29	
LTX108.2:202545751:C	chr2	202545751	LTX108	C	G	4	6.44	3.29	6.77	3.67	

LTX113:9:139397635:C	chr9	139397635	LTX113	C	A	2	13.64	6.26	12.62	8.91	
LTX113:12:49431181:C	chr12	49431181	LTX113	C	T	2	47.91	31.55	42.14	32.76	
LTX113:5:56170952:G	chr5	56170952	LTX113	G	T	1	32.44	19.82	27.94	20.77	
LTX113:14:24661971:C	chr14	24661971	LTX113	C	G	4	15.61	9.89	23.70	12.63	
LTX113:5:177633004:T	chr5	177633004	LTX113	T	A	4	21.62	13.17	23.29	16.44	
LTX113:4:111427827:C	chr4	111427827	LTX113	C	A	4	37.11	25.07	28.85	21.72	
LTX113:1:21097552:C	chr1	21097552	LTX113	C	G	4	12.71	7.98	10.71	7.18	
LTX113:4:103952924:A	chr4	103952924	LTX113	A	T	4	13.78	9.32	14.74	10.23	
LTX113:6:160999600:G	chr6	160999600	LTX113	G	T	4	26.77	17.65	25.45	16.39	
LTX113:11:68854070:G	chr11	68854070	LTX113	G	C	4	20.46	11.32	17.17	12.36	
LTX113:15:57925929:G	chr15	57925929	LTX113	G	C	4	29.35	19.62	39.02	25.18	
LTX113:2:72359406:G	chr2	72359406	LTX113	G	T	4	29.65	18.78	44.19	25.59	
LTX113:10:73553094:C	chr10	73553094	LTX113	C	A	4	37.03	25.36	33.79	26.41	
LTX113:3:19575499:G	chr3	19575499	LTX113	G	T	4	21.83	15.74	19.37	14.81	
LTX113:1:176811546:G	chr1	176811546	LTX113	G	T	4	24.96	18.58	28.72	16.47	
LTX113:11:117864815:T	chr11	117864815	LTX113	T	A	4	39.00	26.28	41.07	27.70	
LTX113:5:147019212:C	chr5	147019212	LTX113	C	A	4	31.23	19.17	23.17	17.77	
LTX113:9:124962190:C	chr9	124962190	LTX113	C	T	4	10.15	1.56	10.38	1.98	
LTX113:12:58018751:G	chr12	58018751	LTX113	G	A	4	7.38	1.31	5.56	1.10	
LTX124:17:7577534:C	chr17	7577534	LTX124	C	A	1	9.87	4.99	7.41	3.70	
LTX124:16:67662436:G	chr16	67662436	LTX124	G	A	2	5.85	3.00	5.35	2.77	
LTX124:7:55259515:T	chr7	55259515	LTX124	T	G	1	15.47	7.88	15.73	8.29	
LTX124:15:28116387:C	chr15	28116387	LTX124	C	A	4	8.44	4.28	7.90	4.05	
LTX124:8:62212683:G	chr8	62212683	LTX124	G	T	4	9.04	4.62	6.75	3.37	
LTX124:16:28157506:A	chr16	28157506	LTX124	A	C	4	8.11	4.16	5.35	2.67	
LTX124:8:42251782:T	chr8	42251782	LTX124	T	G	4	7.33	3.72	7.97	4.42	

LTX124:20:40735547:C	chr20	40735547	LTX124	C	A	4	9.02	4.59	9.70		5.25	
LTX124:1:115226860:A	chr1	115226860	LTX124	A	T	5	7.95	4.04	8.46		4.23	
LTX124:6:47682595:G	chr6	47682595	LTX124	G	C	4	28.24	14.82	23.02		12.24	
LTX124:3:66312500:C	chr3	66312500	LTX124	C	T	4	8.75	4.46	10.31		5.16	
LTX124:15:34018648:C	chr15	34018648	LTX124	C	T	4	7.60	3.82	6.08		3.17	
LTX124:17:37902172:A	chr17	37902172	LTX124	A	G	4	26.73	13.93	25.40		13.11	
LTX124:1:65845156:G	chr1	65845156	LTX124	G	A	4	5.13	2.64	5.30		2.90	
LTX124:11:33373769:A	chr11	33373769	LTX124	A	G	5	5.27	2.66	5.36		2.95	
LTX124:7:150714975:G	chr7	150714975	LTX124	G	A	5	7.30	3.65	11.59		5.79	
LTX124:3:169815127:C	chr3	169815127	LTX124	C	T	4	42.07	21.73	35.24		17.97	
LTX124:3:194081608:G	chr3	194081608	LTX124	G	A	5	7.92	4.04	7.82		4.09	
LTX125:12:9232257:C	chr12	9232257	LTX125	C	G	4	32.49	30.08	29.13		23.65	
LTX125:16:67234687:A	chr16	67234687	LTX125	A	T	4	13.46	12.77	20.90		19.20	
LTX125:13:52532509:C	chr13	52532509	LTX125	C	G	4	19.44	17.58	16.13		15.85	
LTX125:20:13850179:C	chr20	13850179	LTX125	C	A	4	20.88	19.09	17.03		15.53	
LTX125:12:57423327:G	chr12	57423327	LTX125	G	T	5	19.62	18.29	17.81		17.35	
LTX125:19:55798406:G	chr19	55798406	LTX125	G	T	5	21.67	19.42	13.84		13.67	
LTX125:12:51399172:A	chr12	51399172	LTX125	A	T	5	18.21	16.85	16.67		16.21	
LTX125:1:158390084:A	chr1	158390084	LTX125	A	T	4	32.00	29.37	28.80		27.82	
LTX125:11:66241285:G	chr11	66241285	LTX125	G	T	5	31.41	27.52	15.14		15.14	
LTX125:2:97530765:T	chr2	97530765	LTX125	T	G	4	27.13	20.94	15.97		14.67	
LTX125:19:33167193:G	chr19	33167193	LTX125	G	T	5	25.00	12.50	22.78		19.68	
LTX125:7:95661982:C	chr7	95661982	LTX125	C	G	4	18.30	16.66	16.87		14.87	
LTX125:9:103947786:G	chr9	103947786	LTX125	G	C	4	19.22	17.98	16.40		14.79	
LTX125:17:4579369:C	chr17	4579369	LTX125	C	A	4	19.27	17.09	19.88		18.89	
LTX125:3:30715626:A	chr3	30715626	LTX125	A	T	4	23.01	20.34	19.75		17.49	

LTX125:17:38933525:C	chr17	38933525	LTX125	C	A		4	20.30	17.78	19.14		16.97
LTX125:21:35467973:A	chr21	35467973	LTX125	A	G		4	19.21	17.55	18.01		17.46
LTX125:3:10130634:G	chr3	10130634	LTX125	G	A		3	14.53	7.26	16.88		8.44
LTX125:15:24923895:G	chr15	24923895	LTX125	G	C		4	11.82	5.91	8.41		4.21
LTX125:10:61424018:G	chr10	61424018	LTX125	G	A		4	18.18	9.09	14.50		7.35
LTX232:3:128199890:G	chr3	128199890	LTX232	G	T		2	41.77	40.35	20.77		19.05
LTX232:17:7578239:C	chr17	7578239	LTX232	C	A		1	37.61	33.77	33.07		29.22
LTX232:7:98608873:G	chr7	98608873	LTX232	G	T		3	37.02	33.07	34.85		30.53
LTX232:16:3820729:T	chr16	3820729	LTX232	T	A		3	29.14	21.38	27.91		19.62
LTX232:11:6048513:G	chr11	6048513	LTX232	G	T		4	28.87	26.65	22.24		20.34
LTX232:8:113275889:C	chr8	113275889	LTX232	C	A		4	27.17	24.56	23.96		23.14
LTX232:9:131775296:A	chr9	131775296	LTX232	A	T		4	42.16	35.82	32.73		28.72
LTX232:1:196254812:C	chr1	196254812	LTX232	C	A		4	24.28	20.84	20.84		20.81
LTX232:9:127302315:G	chr9	127302315	LTX232	G	C		4	28.42	20.21	21.18		17.29
LTX232:3:111603127:C	chr3	111603127	LTX232	C	A		4	17.58	16.69	19.20		17.01
LTX232:7:44574064:G	chr7	44574064	LTX232	G	C		4	27.17	20.84	29.71		21.29
LTX232:3:87018224:C	chr3	87018224	LTX232	C	G		4	26.90	23.82	23.99		22.76
LTX232:1:39878755:A	chr1	39878755	LTX232	A	C		4	19.64	16.90	20.49		20.22
LTX232:5:98129419:C	chr5	98129419	LTX232	C	G		4	36.21	32.60	34.50		31.38
LTX232:6:41126665:G	chr6	41126665	LTX232	G	T		4	22.73	16.68	24.22		17.39
LTX232:1:167023637:C	chr1	167023637	LTX232	C	A		4	25.67	23.15	23.27		22.68
LTX232:16:30410401:G	chr16	30410401	LTX232	G	C		4	35.78	30.72	33.04		29.85
LTX232:1:156812918:C	chr1	156812918	LTX232	C	G		4	25.10	21.86	25.46		25.27
LTX232:3:9027267:G	chr3	9027267	LTX232	G	A		2	50.00	25.00	19.30		9.65
LTX250:2:178098810:C	chr2	178098810	LTX250	C	T		1	12.94	8.01	12.18		8.18
LTX250:1:114976270:C	chr1	114976270	LTX250	C	T		2	13.98	7.93	9.90		5.52

LTX250:6:168363135:G	chr6	168363135	LTX250	G	T	2	7.89	6.23	8.00	5.16	
LTX250:12:6702623:C	chr12	6702623	LTX250	C	T	2	13.12	7.90	12.22	7.61	
LTX250:9:14819293:C	chr9	14819293	LTX250	C	A	4	27.86	16.24	25.06	15.38	
LTX250:1:227073312:A	chr1	227073312	LTX250	A	T	4	45.32	26.68	40.62	25.34	
LTX250:8:28210743:C	chr8	28210743	LTX250	C	G	4	12.53	6.08	12.57	6.19	
LTX250:9:119033608:C	chr9	119033608	LTX250	C	G	4	36.68	21.74	34.18	19.93	
LTX250:22:50752913:C	chr22	50752913	LTX250	C	A	4	10.00	6.02	8.84	5.39	
LTX250:9:96323411:C	chr9	96323411	LTX250	C	G	4	14.49	7.76	14.08	8.69	
LTX250:21:41452208:G	chr21	41452208	LTX250	G	T	4	28.87	17.25	27.24	17.27	
LTX250:12:104025445:C	chr12	104025445	LTX250	C	G	4	11.51	7.55	8.29	5.78	
LTX250:12:57118296:C	chr12	57118296	LTX250	C	T	2	8.44	2.84	7.21	2.40	
LTX250:19:47425531:G	chr19	47425531	LTX250	G	A	2	7.40	2.49	6.07	2.02	
LTX250:8:103297964:C	chr8	103297964	LTX250	C	T	1	11.97	4.04	11.35	3.82	
LTX250:19:47425110:G	chr19	47425110	LTX250	G	C	2	6.39	2.14	7.77	2.62	
LTX250:20:51870456:G	chr20	51870456	LTX250	G	C	4	6.72	2.24	5.49	1.83	
LTX250:18:74593339:G	chr18	74593339	LTX250	G	C	4	50.00	16.67	5.78	1.98	
LTX250:9:128678017:G	chr9	128678017	LTX250	G	C	4	12.48	5.02	13.85	5.12	
LTX250:1:10328233:A	chr1	10328233	LTX250	A	T	4	12.74	4.25	10.24	3.41	

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CLAIMS

1. A subject-specific method for determining clonality of mutations in a lung tumour in a subject, comprising:

a) sequencing all of the genome or exome of a lung tumour of a subject to define all clonal and subclonal mutations in said tumour, wherein defining the clonal and subclonal mutations comprises:

1) calculating an observed cancer cell fraction (CCF) of each mutation (obsCCF) and a phylogenetic CCF of that mutation (phyloCCF);

2) timing each clonal mutation using the genome with at least two copies of a major allele preliminarily classified as early if a mutation copy number for the mutation is greater than 1 and as late if the mutation copy number for the mutation is less than or equal to 1;

3) performing temporal analysis comprising (a) classifying early mutations across the majority of tumor regions as early clonal mutations and (b) classifying late mutations across majority of tumor regions as late clonal mutations, and the remaining mutations as untimed mutations;

b) clustering the clonal and/or subclonal mutations;

c) performing phylogenetic analysis on mutations assigned thereto, wherein the phylogenetic analysis comprises assembling the mutations into a phylogenetic tree defining the clonal and subclonal mutation profile of the tumour;

d) analysing DNA included in a sample obtained from the subject subsequent to the tumour removal using a set of reagents capable of detecting at least one mutation characteristic of a trunk of the phylogenetic tree and at least one mutation characteristic of each branch of the phylogenetic tree.

2. A method according to claim 1, wherein said sequencing is carried out on a tumour biopsy, all or part of the tumour or one or more subsections of the tumour, or on cell free DNA (cfDNA), circulating tumour DNA, exosome derived tumour DNA or circulating tumour cells from the subject, or blood plasma obtained from the subject.

3. A method according to claim 2, wherein said sequencing is carried out on said tumour or subsection thereof following removal of the tumour.

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4. A method according to claim 1, wherein the sample to be analysed comprises cfDNA, circulating tumour DNA, exosome derived tumour DNA or circulating tumour cells or a blood plasma sample from the subject.

5. A method of claim 1, wherein all of the genome or exome of at least two subsections of the tumour is sequenced and clonal and subclonal mutations are defined based on which mutations occur in which tumour subsections.

6. A method of claim 5, wherein the clonal and subclonal mutations in the tumour are defined by sequencing the genome or exome of up to ten subsections of the tumour.

7. A method of any one of the preceding claims, wherein the clonal and subclonal mutations are single nucleotide variant (SNV) mutations.

8. A method of any one of the preceding claims, wherein said set of reagents is a set of multiplex PCR primers and said analysis is a multiplex PCR.

9. A method of any one of claims 1-8, further comprising sequencing all of the non-tumour genome or exome of the subject and comparing this with said tumour genome or exome sequences to define the clonal and subclonal mutations found in the subject's tumour.

10. A method of any one of the preceding claims, wherein said set of detection reagents detects at least one or at least two clonal mutations.

11. A method of any one of claims 2-10, wherein said set of detection reagents detects at least one mutation characteristic of each subsection of the tumour.

12. A method of any one of the preceding claims, wherein clonal and subclonal mutations are assembled into a phylogenetic tree defining the clonal and subclonal mutation profile of the tumour.

13. A method of claim 12, wherein said set of detection reagents is capable of detecting at least one mutation characteristic of the trunk of the phylogenetic tree and at least one mutation characteristic of each branch of the phylogenetic tree.

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14. A method according to any one of claims 1-13, wherein the whole genome or exome of said DNA from said tumour and/or the whole exome of said at least two tumour subsections and/or the whole non-tumour exome of the subject is sequenced.

15. A method of any one of the preceding claims, wherein the genome or exome is sequenced to identify early clonal mutations from the subject's tumour in the subject's cfDNA.

16. A method of claim 15, wherein mutations are detected in one or more of the genes selected from the group consisting of TP53, NOTCH, KRAS, WT1, EGFR, PTEN, PRDM1, FBXW7, MET, KMT2D, BRAF, SMAD4, TSC2, LATS1, PHOX2B, KEAP1, FBX2W7, CREBPP, CHEK2, APC, RBM10, BCOR, KEAP1, STK11, SOX2, PIK3CA, FOXL2, TERT, IL-7R, EGFR, FGFR1, MYC, HEY1, RSPO2, COX6C, CCND1, CD79A, AKT2, NKX2-1 and FOXA1.

17. A method of any one of the preceding claims, wherein said lung tumour is a non-small cell lung tumour.

18. A method of claim 17, wherein the non-small cell lung tumour is a squamous cell carcinoma, an adenocarcinoma or a large cell carcinoma.

19. A method of any one of the preceding claims, wherein the analysis is carried out at least 48 hours, from 48 hours to 7 days, from 7 to 14 days, from 14 days to one month, from one to two months, from two to six months, from six months to one year or over one year from the removal of the tumour.

20. A method of any one of the preceding claims, wherein the analysis of (c) is carried out on multiple occasions times over a period of time, for example at regular intervals.

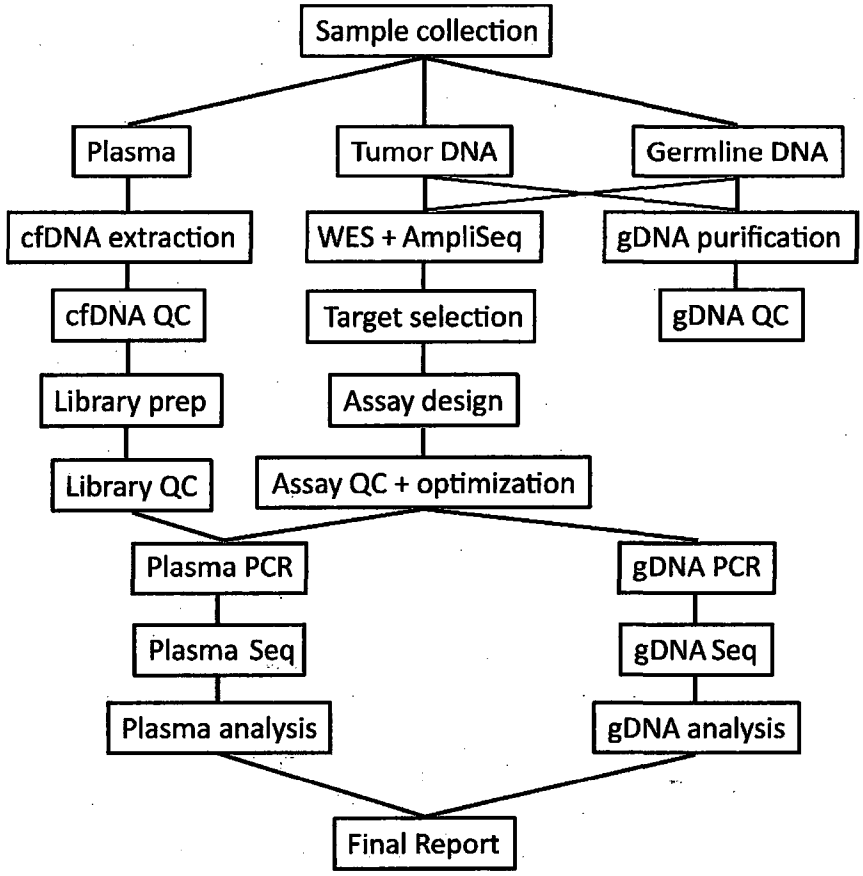

Sample collection
Plasma
Tumor DNA
Germline DNA
cfDNA extraction
WES + AmpliSeq
gDNA purification
cfDNA QC
Target selection
gDNA QC
Library prep
Assay design
Library QC
Assay QC + optimization
Plasma PCR
gDNA PCR
Plasma Seq
gDNA Seq
Plasma analysis
gDNA analysis
Final Report

Figure 1

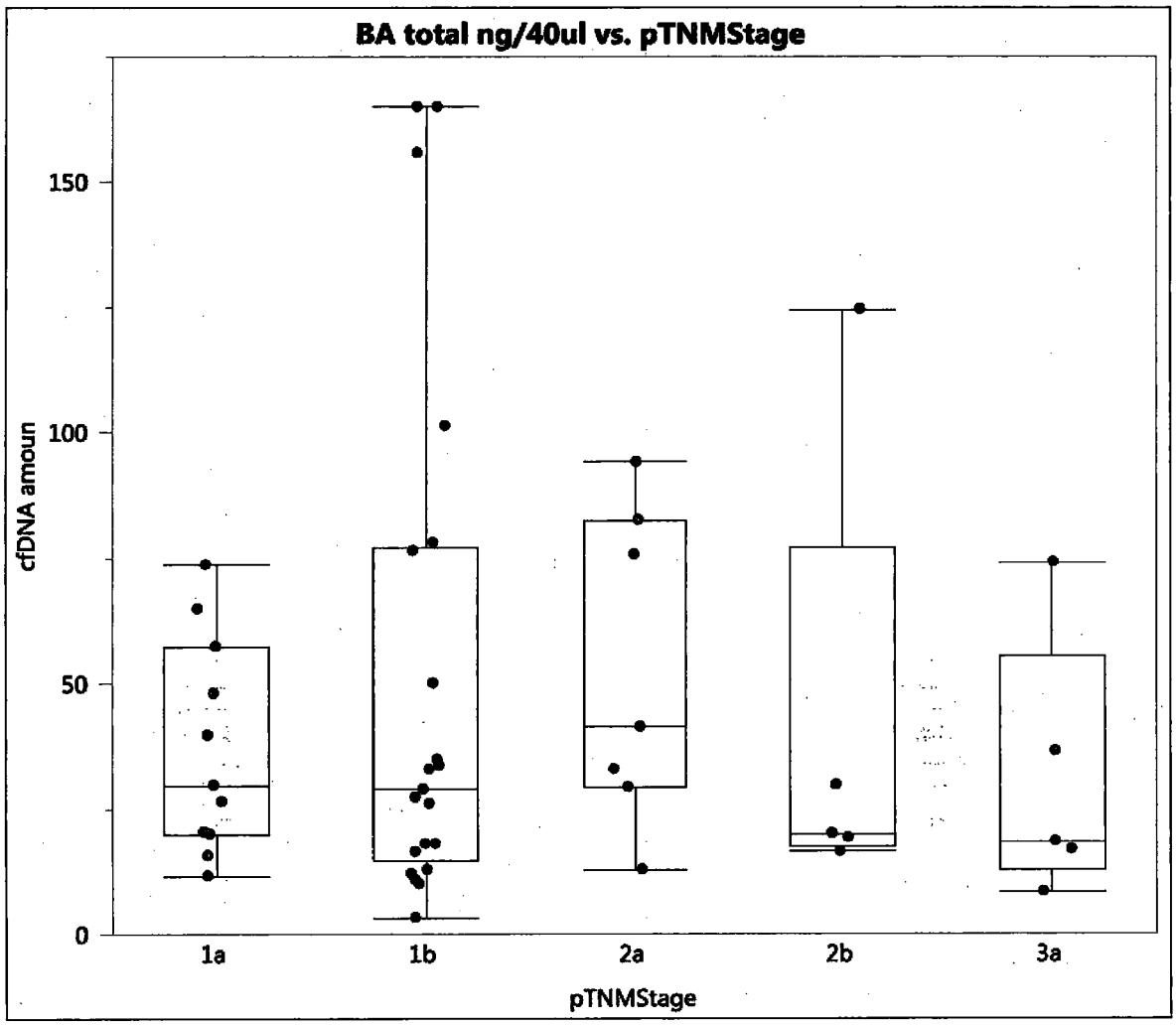

BA total ng/40ul vs. pTNMStage
cfDNA amoun
150
100
50
0
1a
1b
2a
2b
3a
pTNMStage

Figure 2

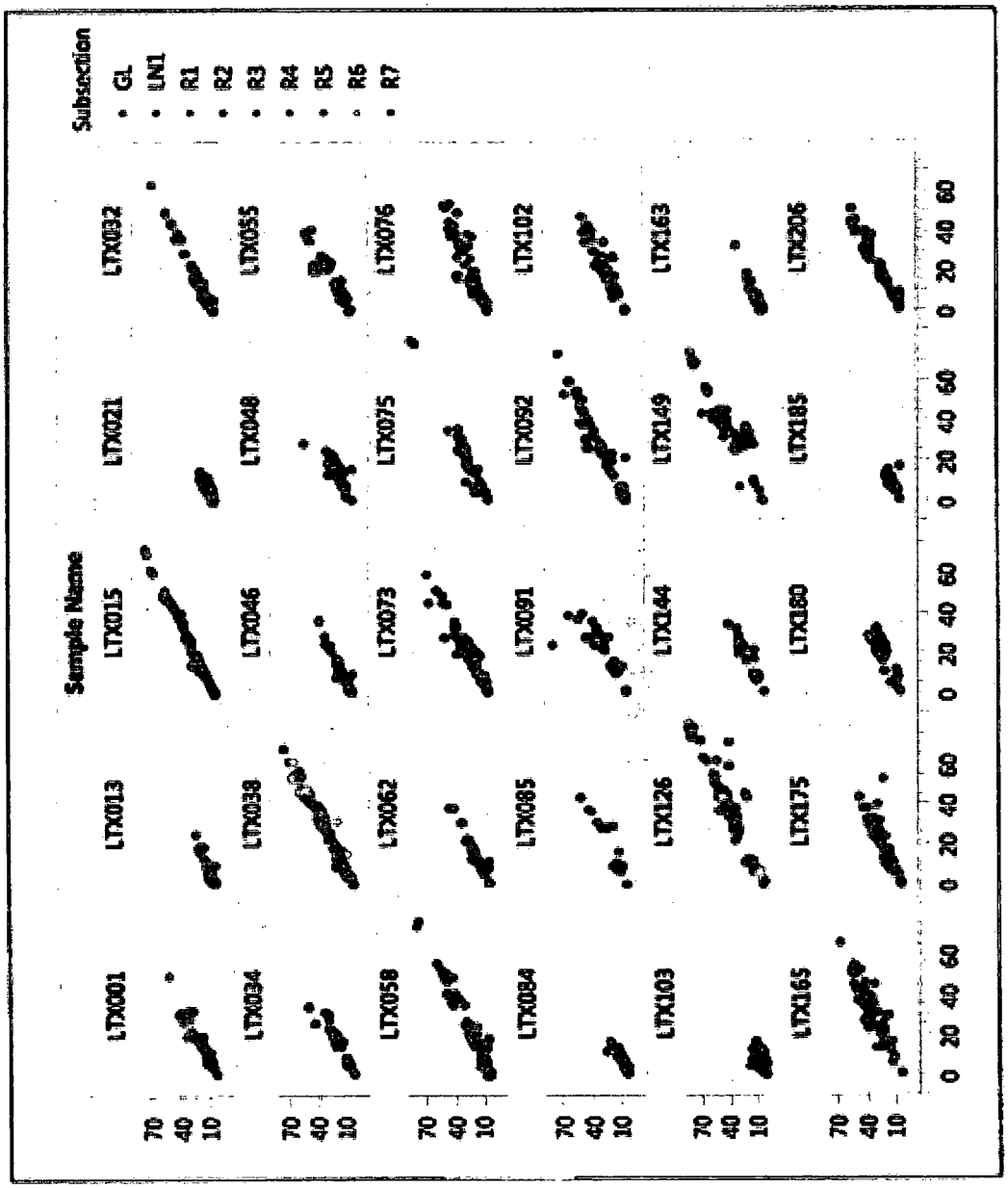

Subsection
GL
LN1
R1
R2
R3
R4
R5
R6
R7
Sample Name
LTX001
LTX013
LTX015
LTX021
LTX032
LTX034
LTX038
LTX046
LTX048
LTX055
LTX058
LTX062
LTX073
LTX075
LTX076
LTX084
LTX085
LTX091
LTX092
LTX102
LTX103
LTX126
LTX144
LTX149
LTX163
LTX165
LTX175
LTX180
LTX185
LTX206
70
40
10
0 20 40 60

Figure 3

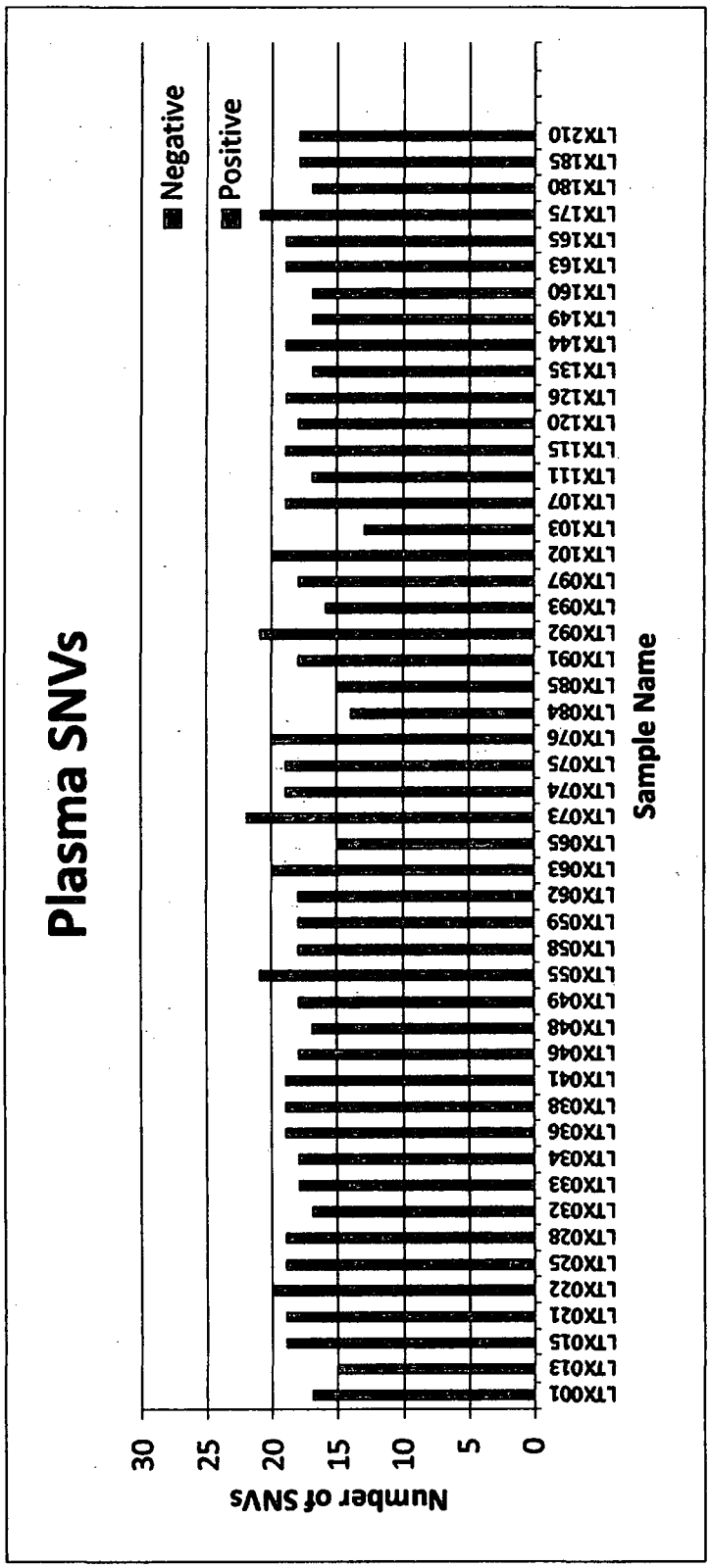

Plasma SNVs
Negative
Positive
Number of SNVs
0
5
10
15
20
25
30
Sample Name
LTX210
LTX185
LTX180
LTX175
LTX165
LTX163
LTX160
LTX149
LTX144
LTX135
LTX126
LTX120
LTX115
LTX111
LTX107
LTX103
LTX102
LTX097
LTX093
LTX092
LTX091
LTX085
LTX084
LTX076
LTX075
LTX074
LTX073
LTX065
LTX063
LTX062
LTX059
LTX058
LTX055
LTX049
LTX048
LTX046
LTX041
LTX038
LTX036
LTX034
LTX033
LTX032
LTX028
LTX025
LTX022
LTX021
LTX015
LTX013
LTX001

Figure 4

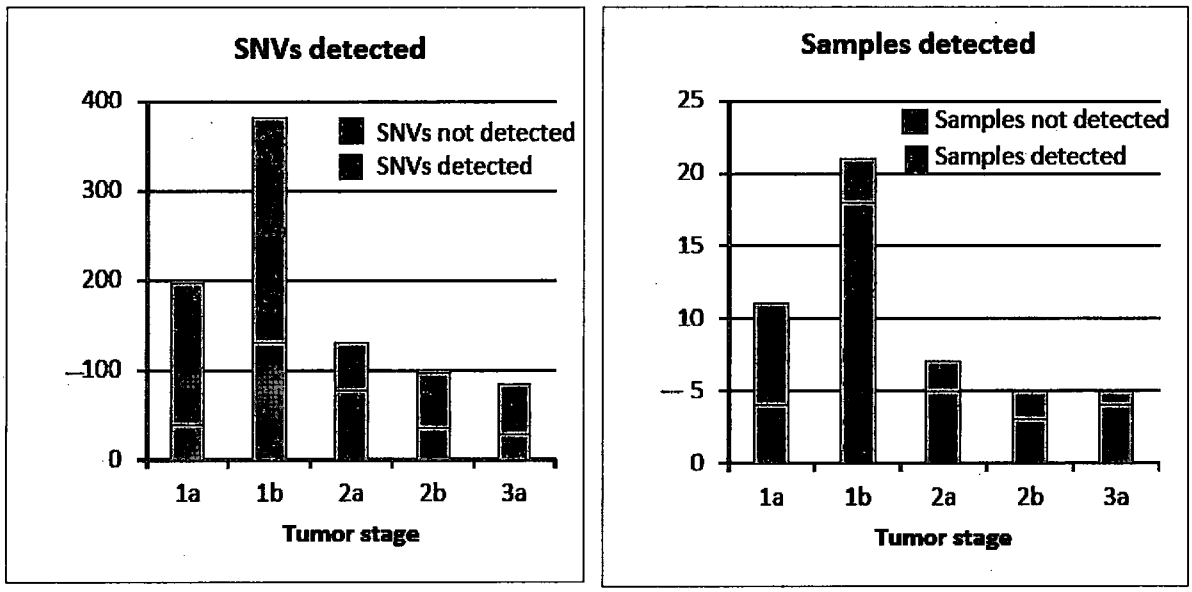

SNVs detected
400
300
200
100
0
SNVs not detected
SNVs detected
1a
1b
2a
2b
3a
Tumor stage
Samples detected
25
20
15
10
5
0
Samples not detected
Samples detected
1a
1b
2a
2b
3a
Tumor stage

Figure 5

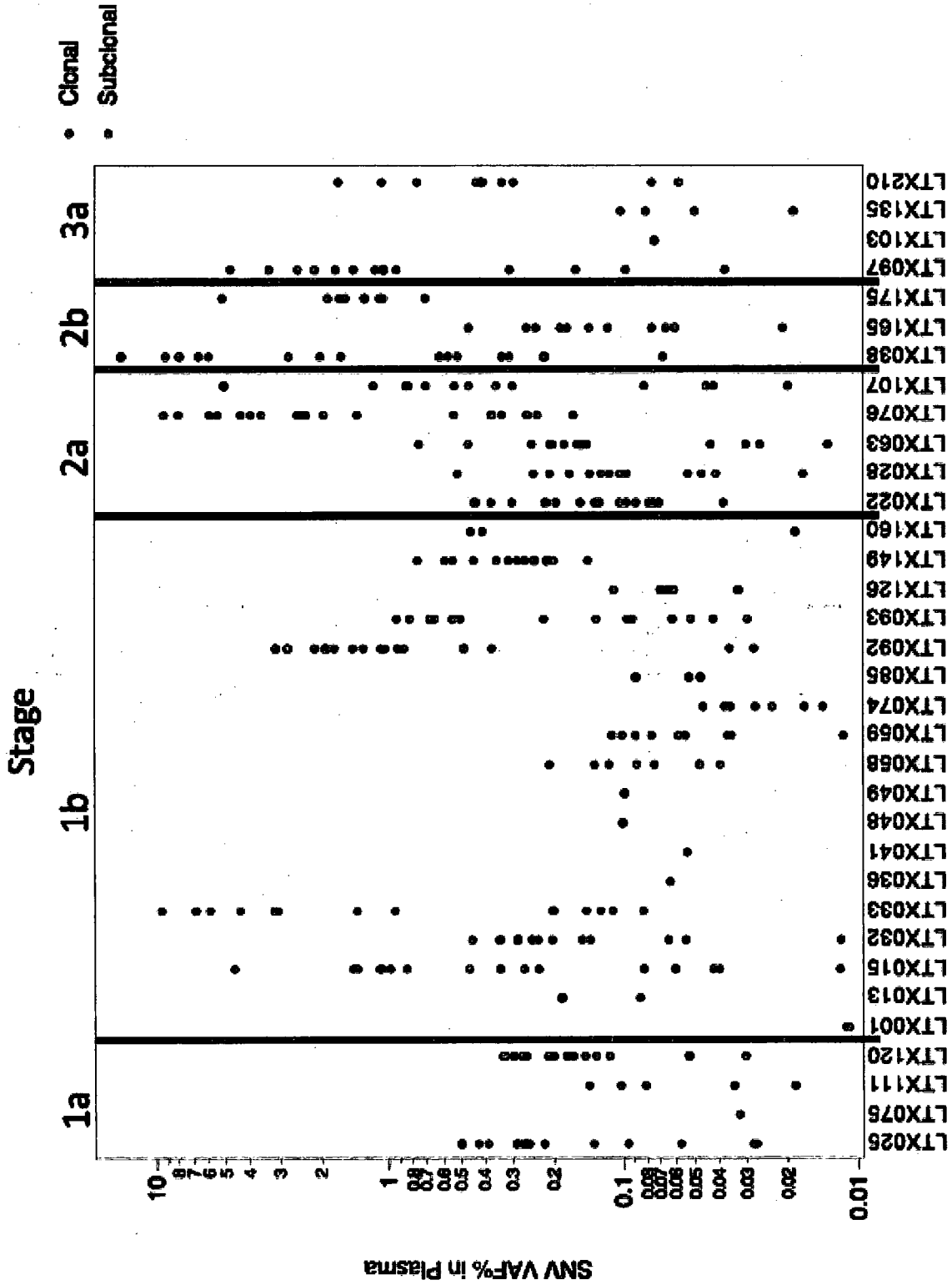

Clonal
Subclonal
Stage
1a
1b
2a
2b
3a
LTX210
LTX135
LTX103
LTX097
LTX175
LTX165
LTX038
LTX107
LTX076
LTX063
LTX028
LTX022
LTX160
LTX149
LTX126
LTX093
LTX092
LTX085
LTX074
LTX069
LTX068
LTX049
LTX048
LTX041
LTX036
LTX033
LTX032
LTX015
LTX013
LTX001
LTX120
LTX111
LTX075
LTX025
10
2
1
0.1
0.01
SNV VAF% in Plasma

Figure 6

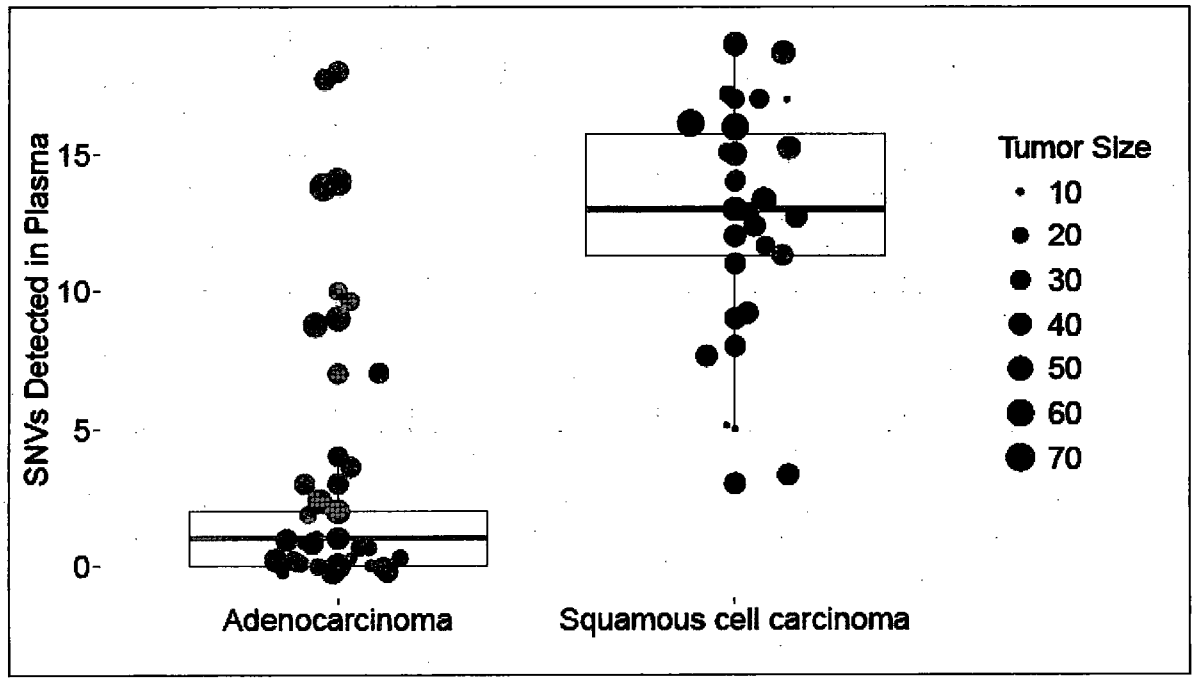

SNVs Detected in Plasma
15
10
5
0
Adenocarcinoma
Squamous cell carcinoma
Tumor Size
10
20
30
40
50
60
70

Figure 7

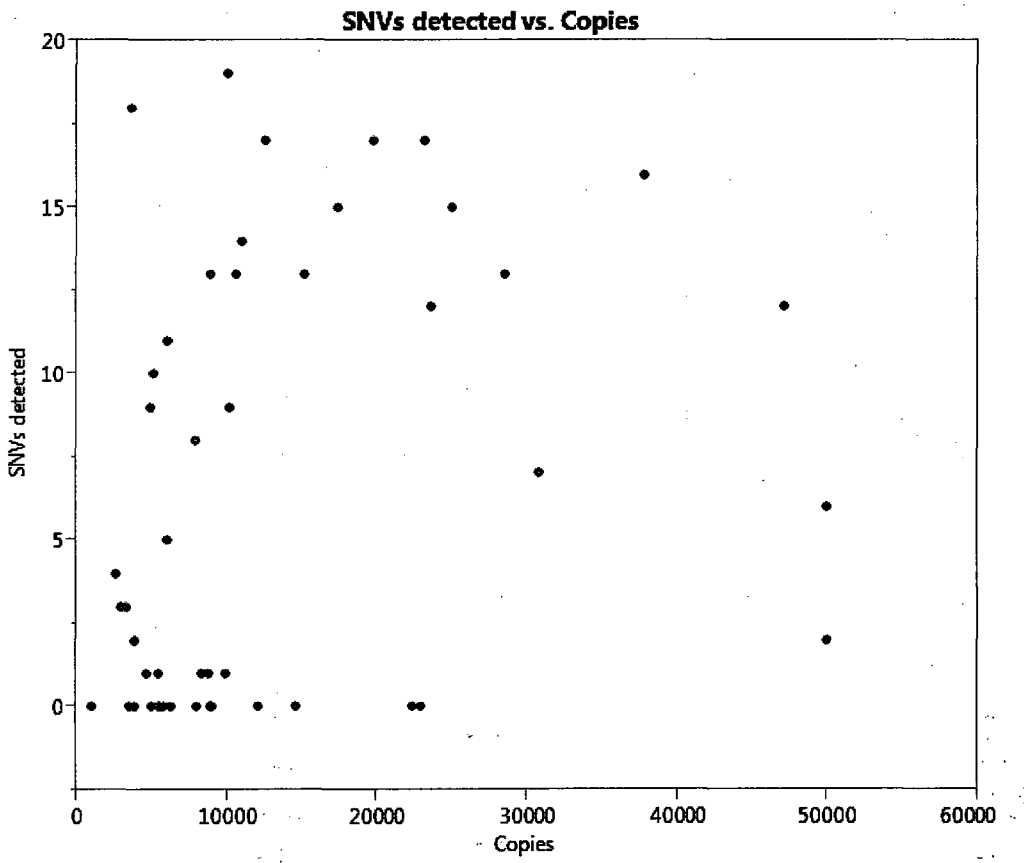

SNVs detected vs. Copies
SNVs detected
Copies
0
5
10
15
20
0
10000
20000
30000
40000
50000
60000

Figure 8

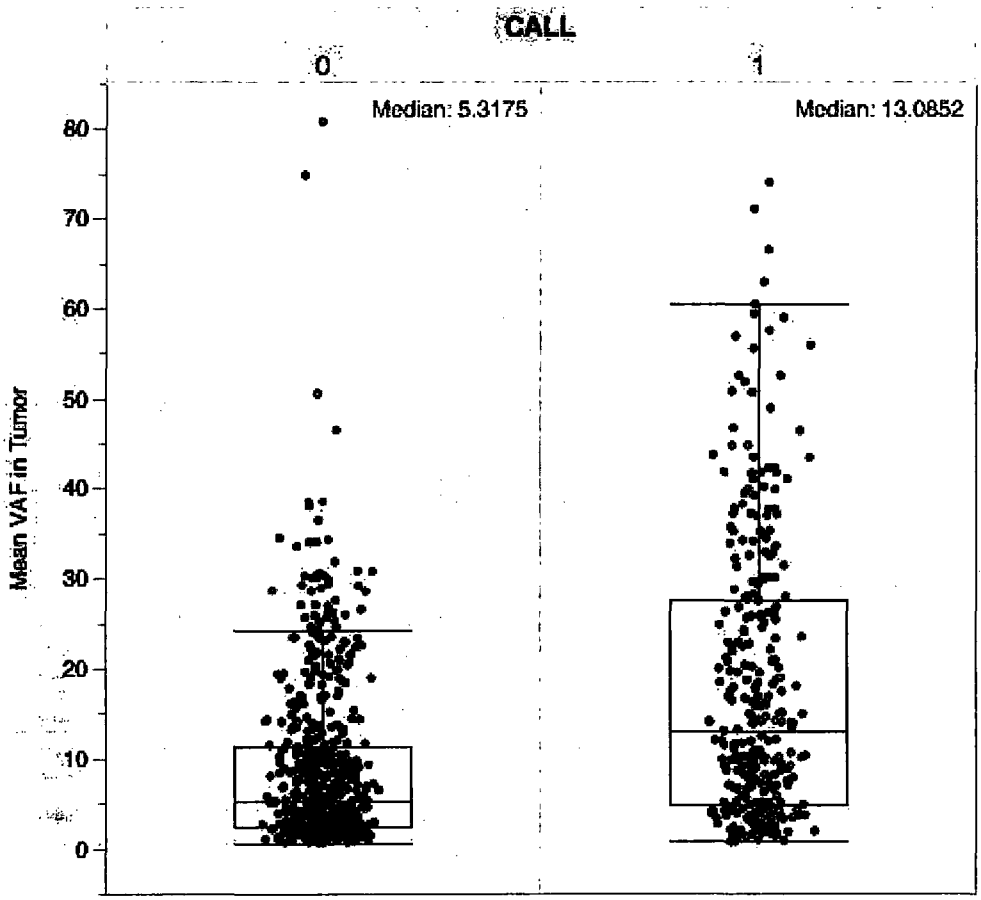

CALL
0
1
Median: 5.3175
Median: 13.0852
Mean VAF in Tumor
80
70
60
50
40
30
20
10
0

Figure 9

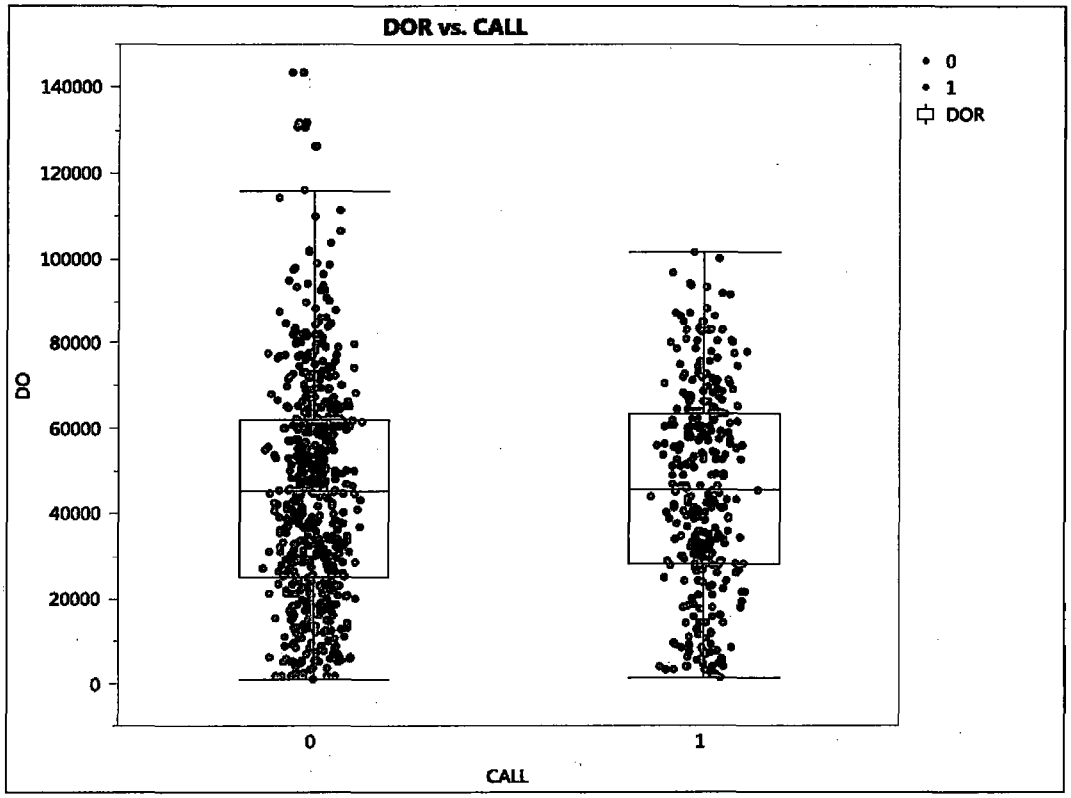


Figure 10A

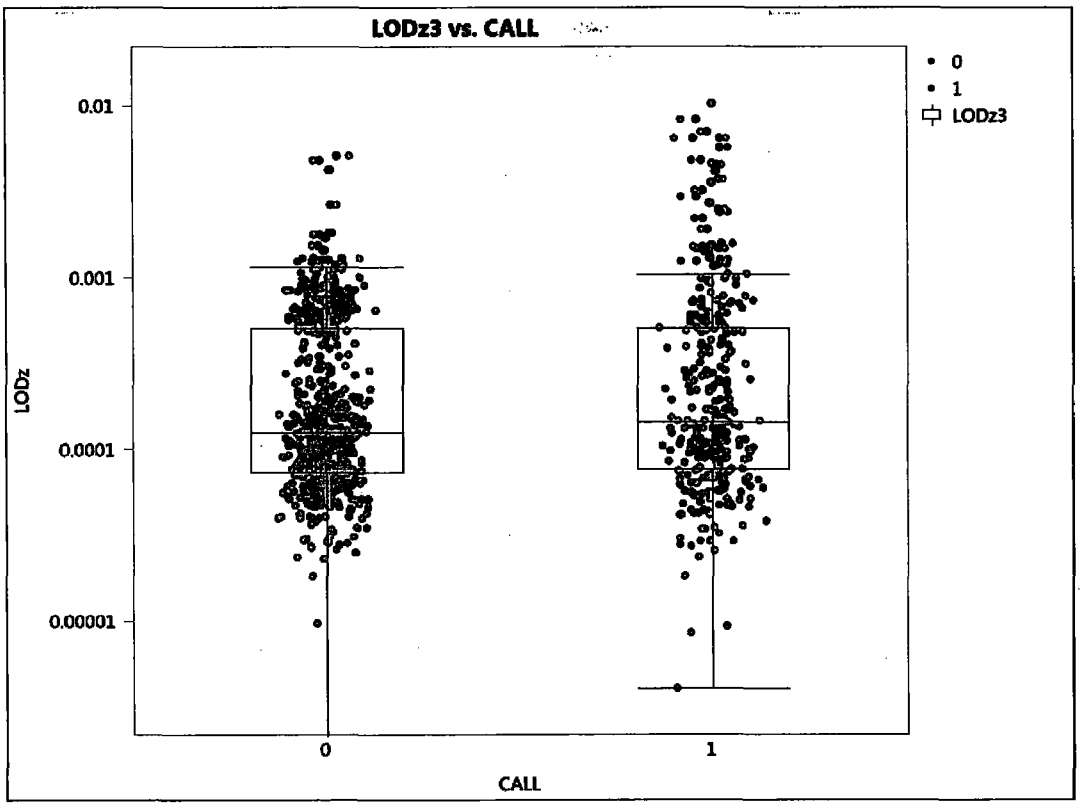


Figure 10B

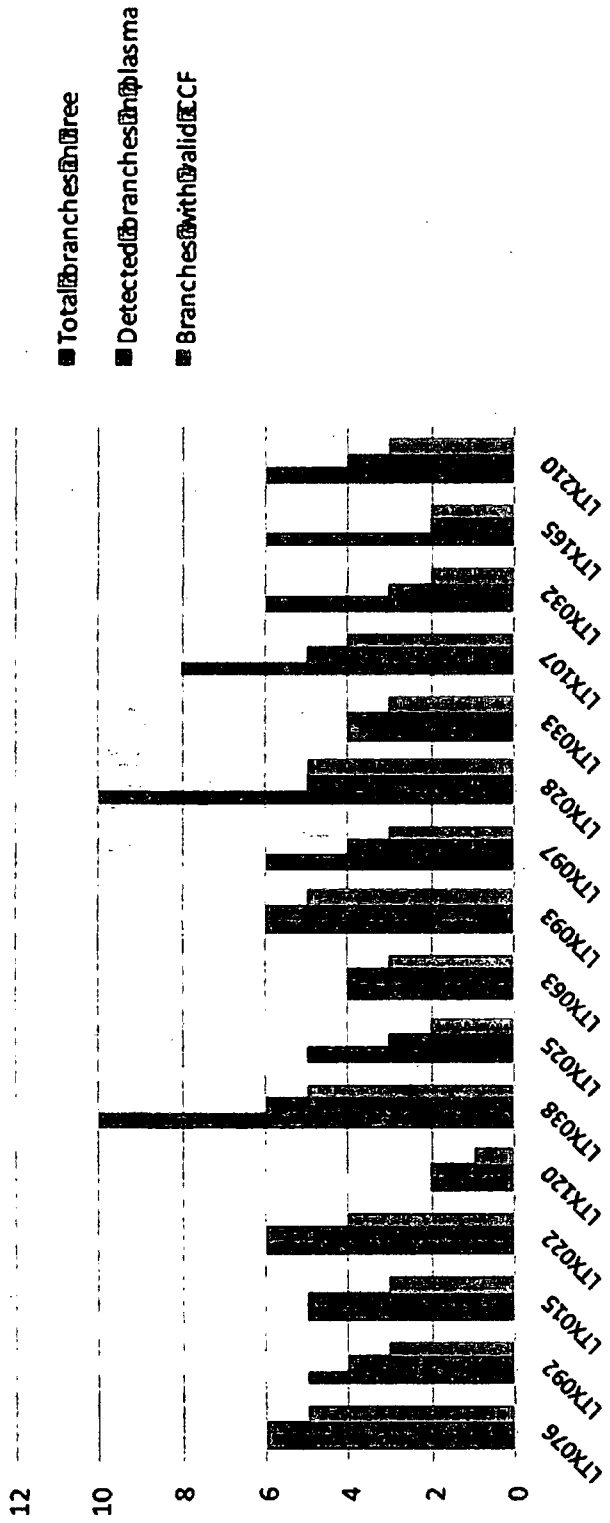

Total Branches in Tree
Detected Branches in Plasma
Branches with Valid ctDNA
12
10
8
6
4
2
0
LTX210
LTX165
LTX032
LTX107
LTX033
LTX028
LTX097
LTX093
LTX063
LTX025
LTX038
LTX120
LTX022
LTX015
LTX092
LTX076

Figure 11A

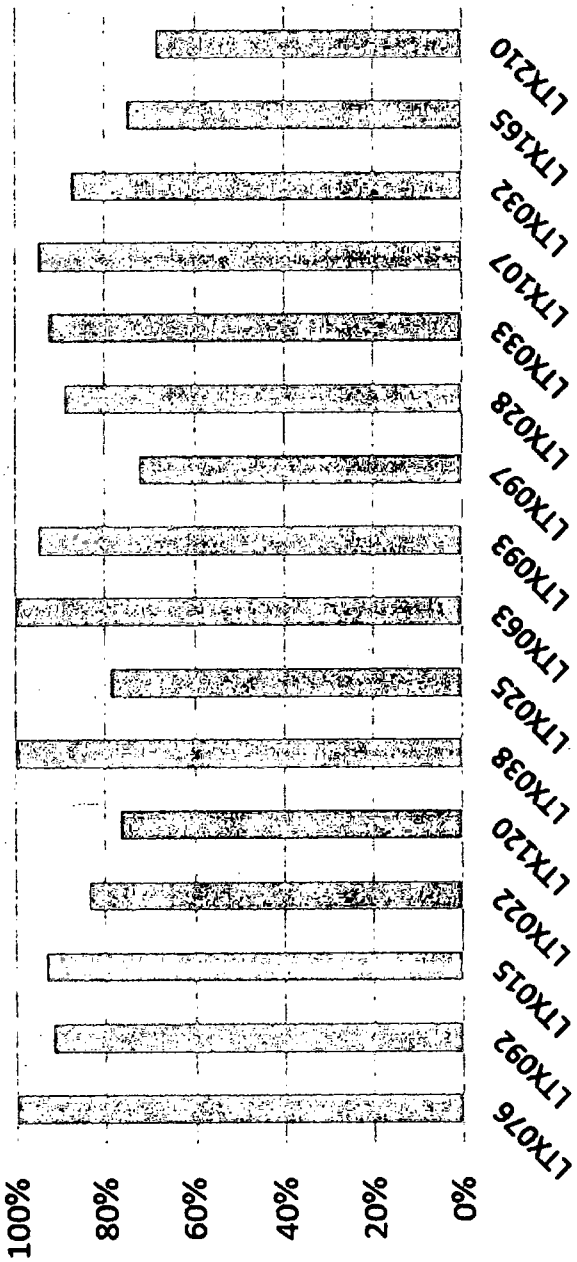

LTX210
LTX165
LTX032
LTX107
LTX033
LTX028
LTX097
LTX093
LTX063
LTX025
LTX038
LTX120
LTX022
LTX015
LTX092
LTX076
100%
80%
60%
40%
20%
0%

Figure 11B

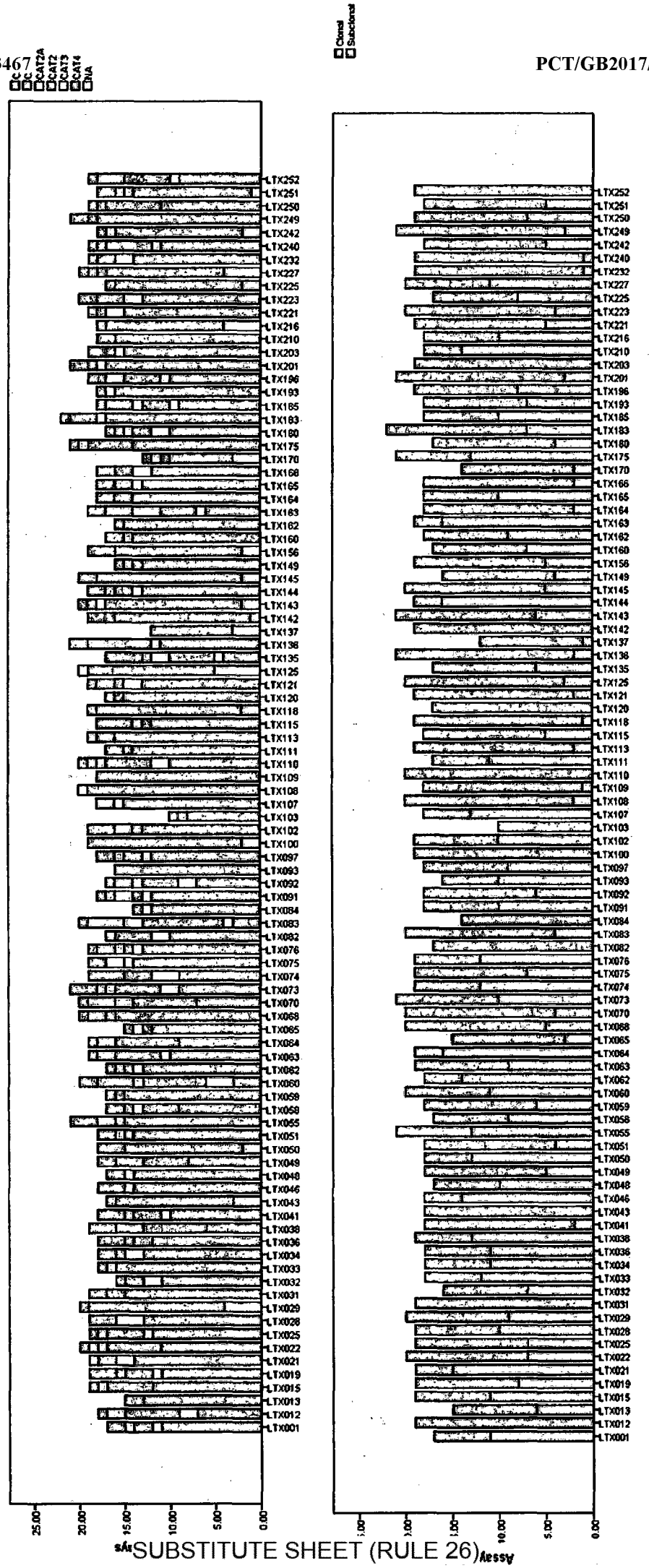

Cc
Dc
CAT2A
CAT2
CAT3
CAT4
DNA
Clonal
Subclonal
LTX252
LTX251
LTX250
LTX249
LTX242
LTX240
LTX232
LTX227
LTX225
LTX223
LTX221
LTX216
LTX210
LTX203
LTX201
LTX196
LTX193
LTX185
LTX183
LTX180
LTX175
LTX170
LTX168
LTX165
LTX164
LTX163
LTX162
LTX160
LTX156
LTX149
LTX145
LTX144
LTX143
LTX142
LTX137
LTX136
LTX135
LTX125
LTX121
LTX120
LTX118
LTX115
LTX113
LTX111
LTX110
LTX109
LTX108
LTX107
LTX103
LTX102
LTX100
LTX097
LTX093
LTX092
LTX091
LTX084
LTX083
LTX082
LTX076
LTX075
LTX074
LTX073
LTX070
LTX068
LTX065
LTX064
LTX063
LTX062
LTX060
LTX059
LTX058
LTX055
LTX051
LTX050
LTX049
LTX048
LTX046
LTX043
LTX041
LTX038
LTX036
LTX034
LTX033
LTX032
LTX031
LTX029
LTX028
LTX025
LTX022
LTX021
LTX019
LTX015
LTX013
LTX012
LTX001
25.00
20.00
15.00
10.00
5.00
0.00

Figure 12

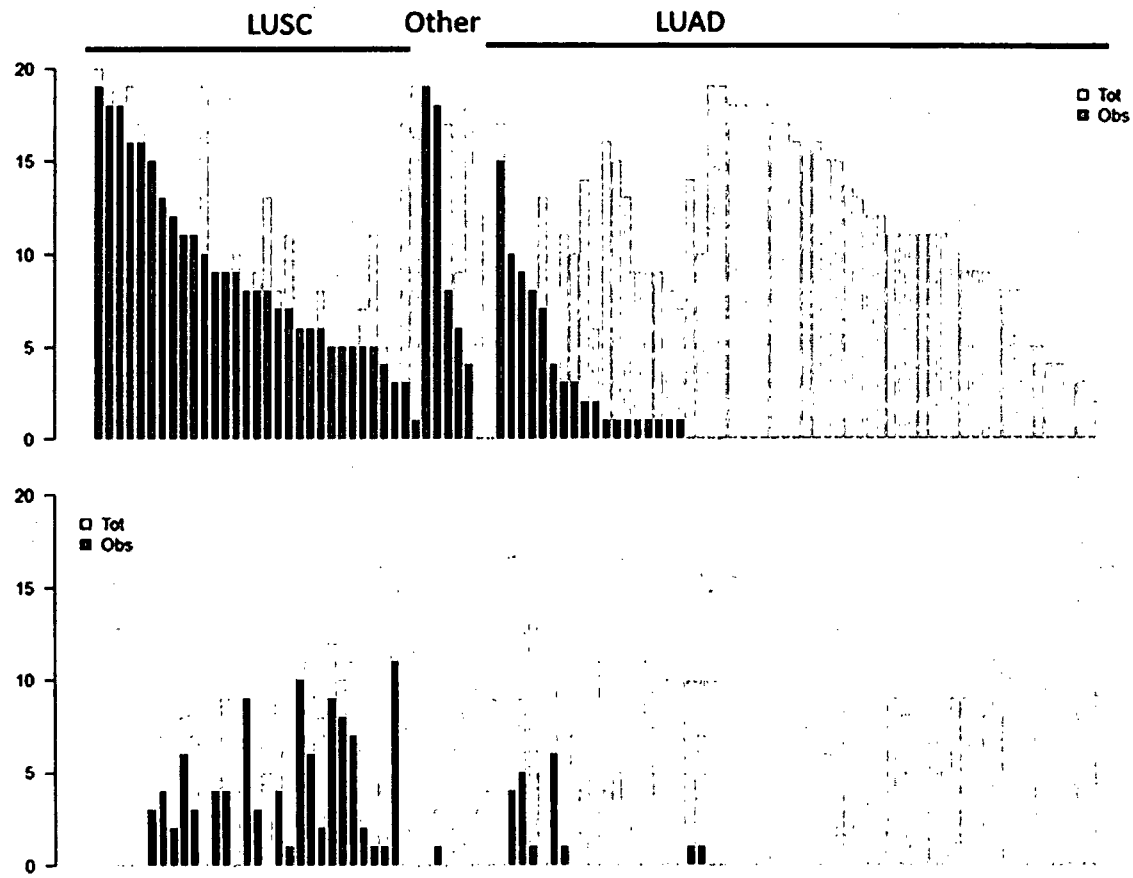


Figure 13

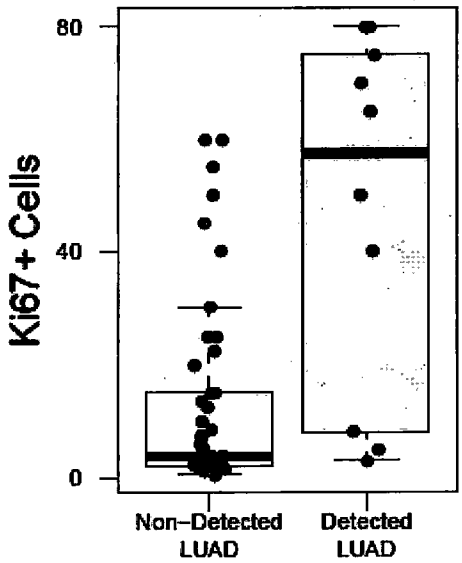


Figure 14A

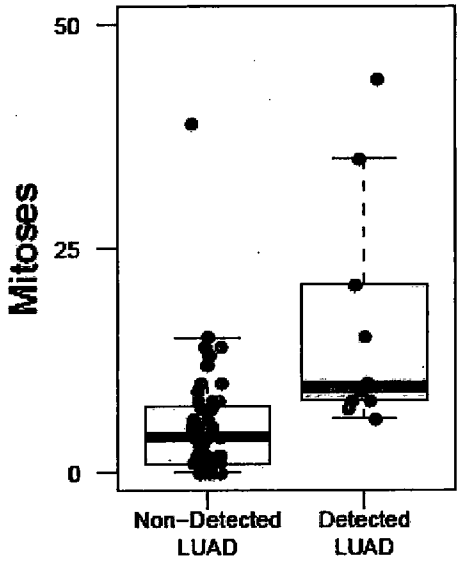


Figure 14B

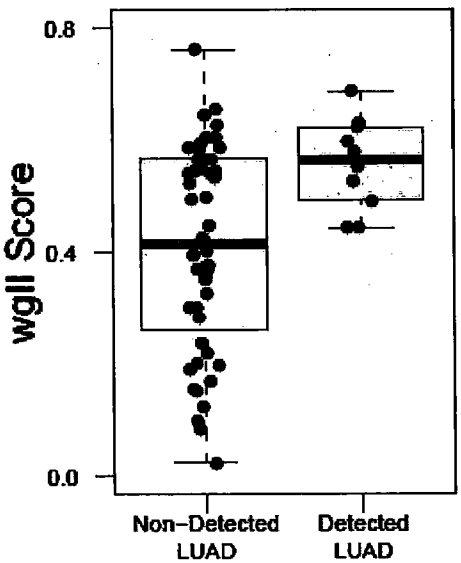


Figure 14C

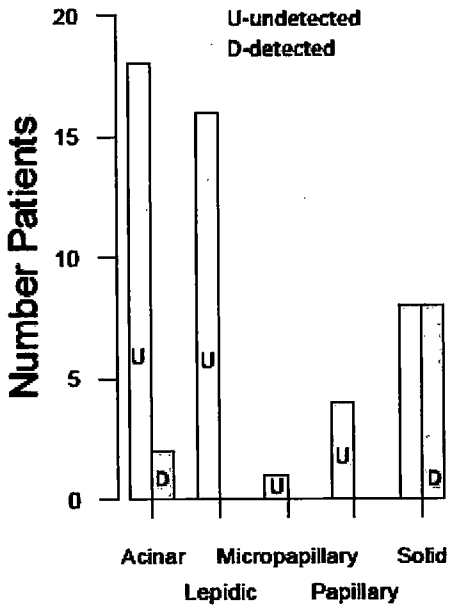


Figure 14D

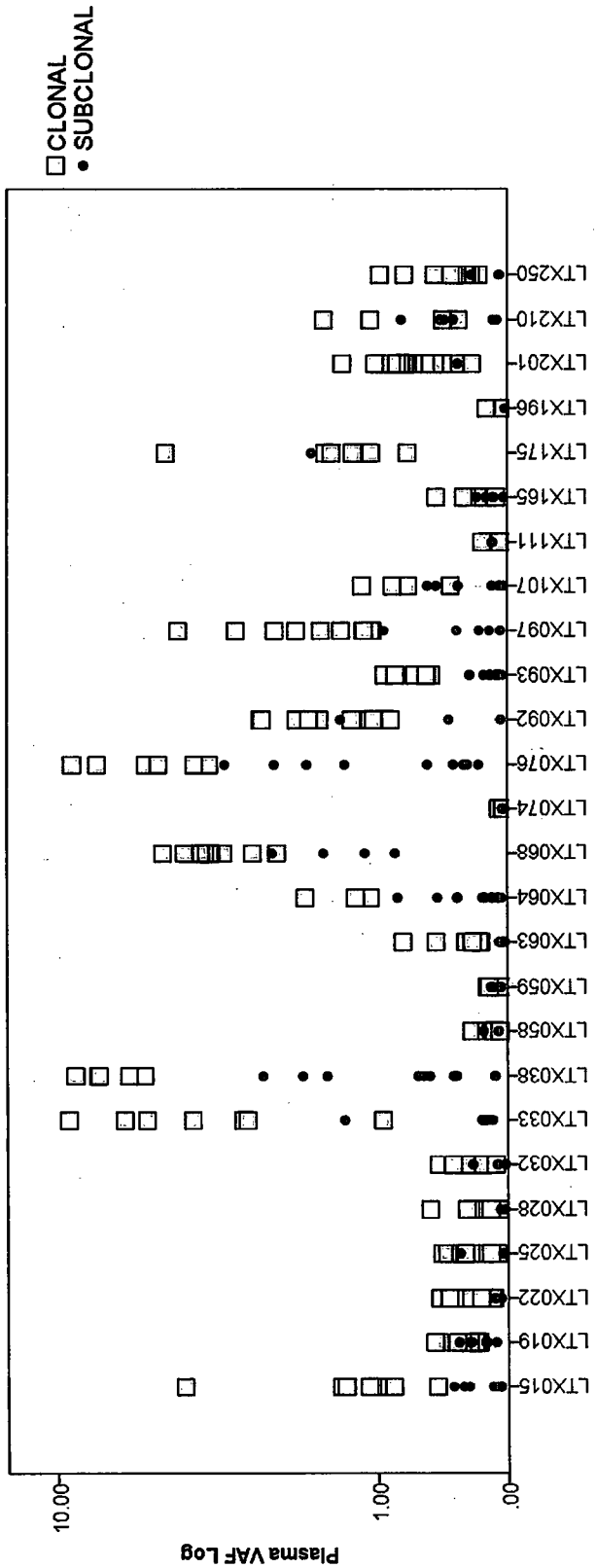

CLONAL
SUBCLONAL
LTX250
LTX210
LTX201
LTX196
LTX175
LTX165
LTX111
LTX107
LTX097
LTX093
LTX092
LTX076
LTX074
LTX068
LTX064
LTX063
LTX059
LTX058
LTX038
LTX033
LTX032
LTX028
LTX025
LTX022
LTX019
LTX015
10.00
1.00
.00
Plasma VAF Log

Figure 15A

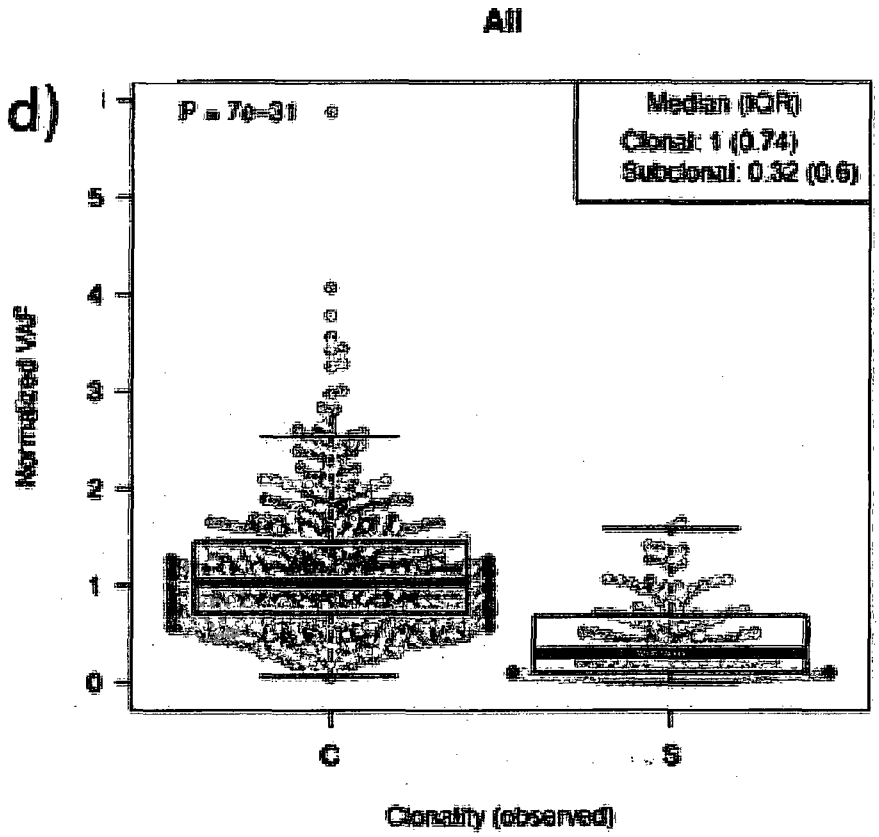

All
d)
P = 7e-31
Median (IQR)
Clonal: 1 (0.74)
Subclonal: 0.32 (0.6)
Normalised VAF
0
1
2
3
4
5
C
S
Clonality (observed)

Figure 15B

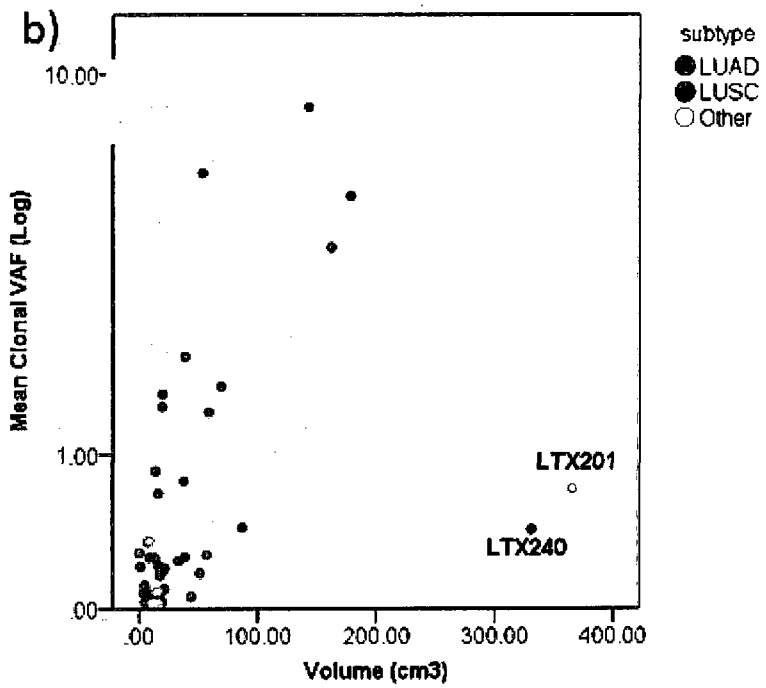


Figure 15C

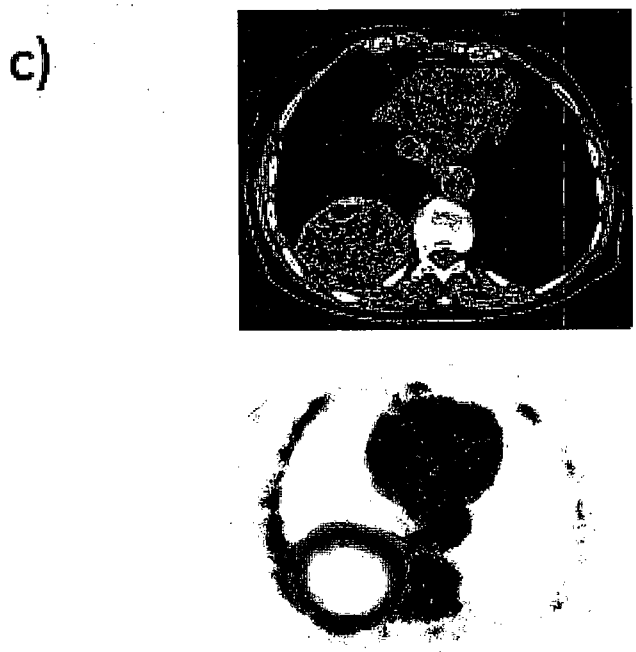


Figure 15D

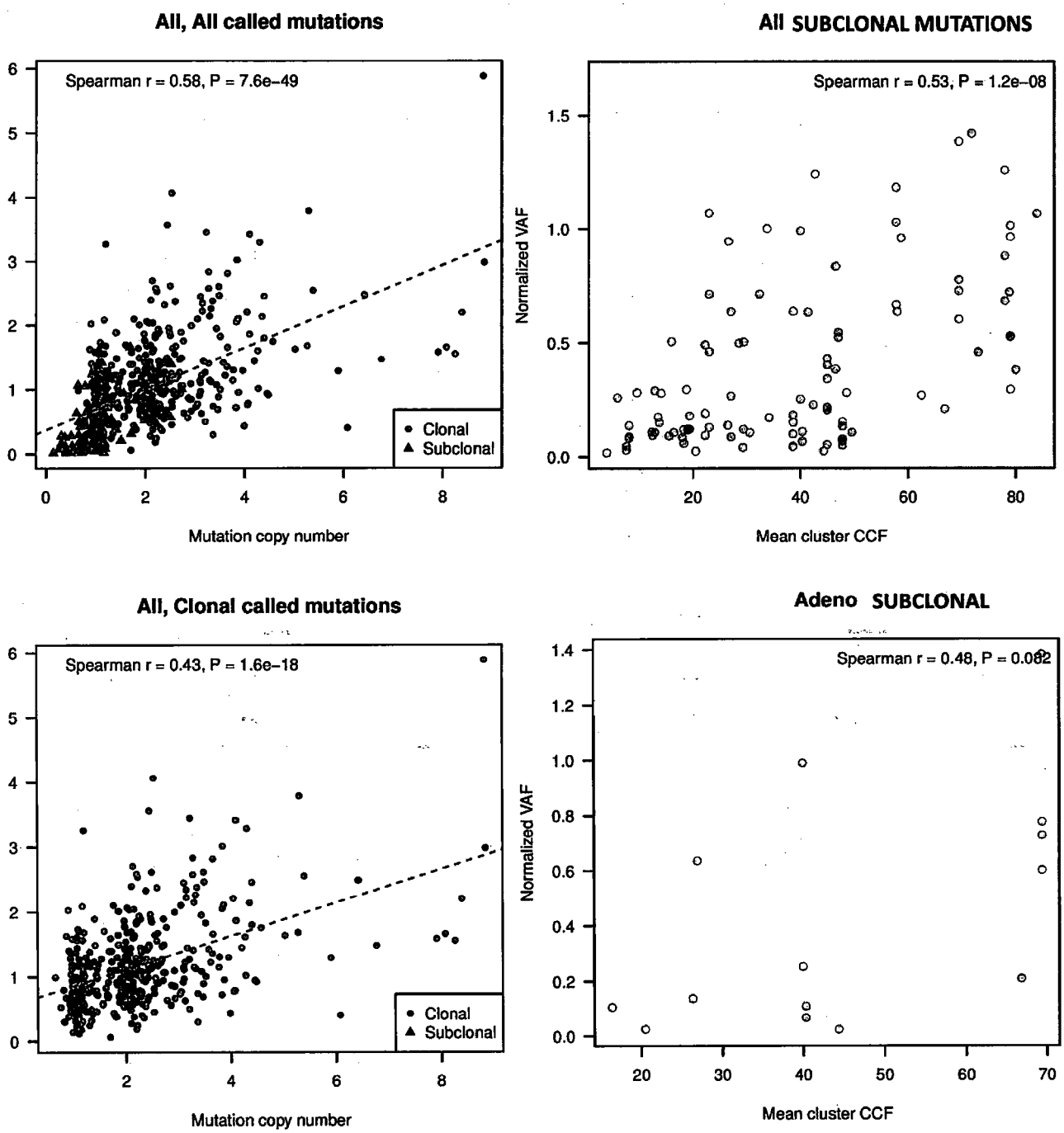

All, All called mutations
Spearman r = 0.58, P = 7.6e-49
Clonal
Subclonal
Mutation copy number
All SUBCLONAL MUTATIONS
Spearman r = 0.53, P = 1.2e-08
Normalized VAF
Mean cluster CCF
All, Clonal called mutations
Spearman r = 0.43, P = 1.6e-18
Clonal
Subclonal
Mutation copy number
Adeno SUBCLONAL
Spearman r = 0.48, P = 0.082
Normalized VAF
Mean cluster CCF

Figure 16 A

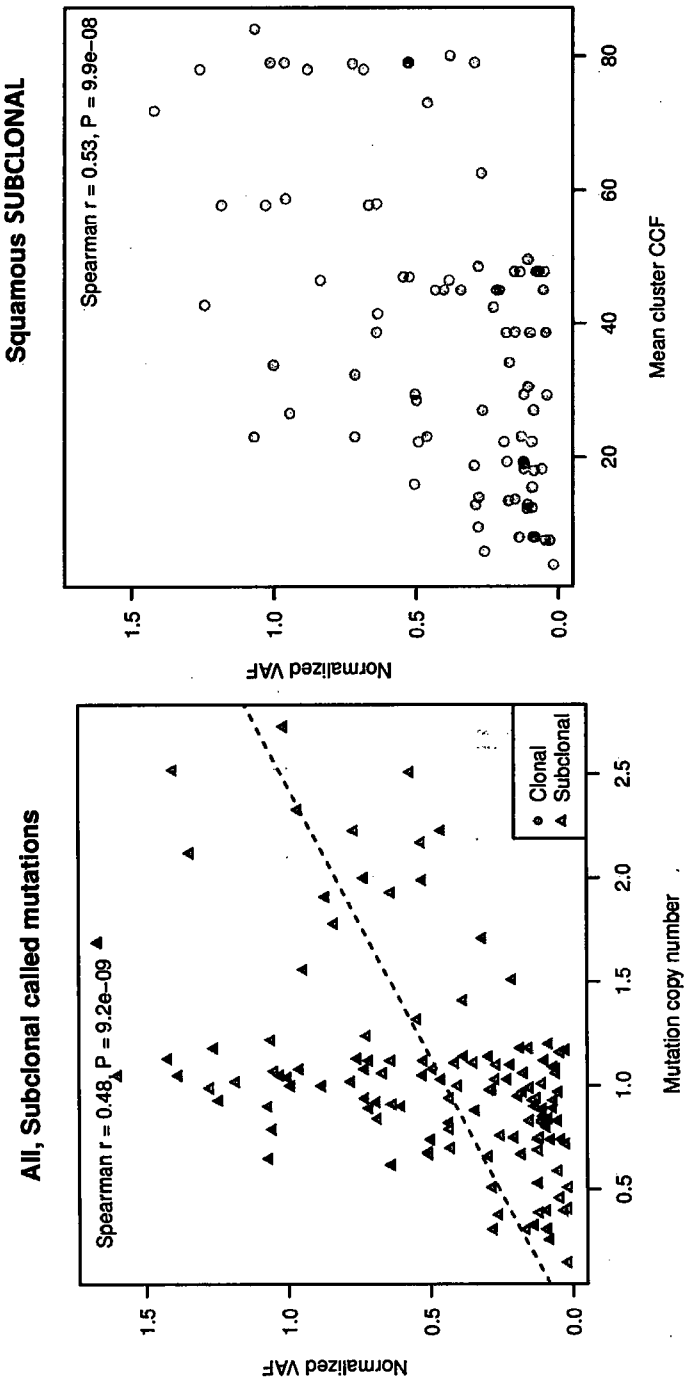

Squamous SUBCLONAL
Spearman r = 0.53, P = 9.9e−08
Normalized VAF
Mean cluster CCF
All, Subclonal called mutations
Spearman r = 0.48, P = 9.2e−09
Clonal
Subclonal
Normalized VAF
Mutation copy number

Figure 16 B

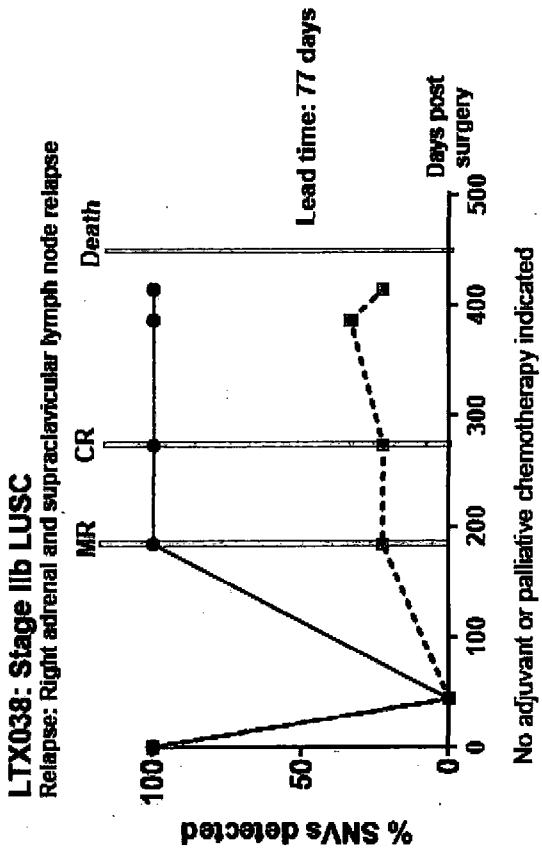


Figure 17B

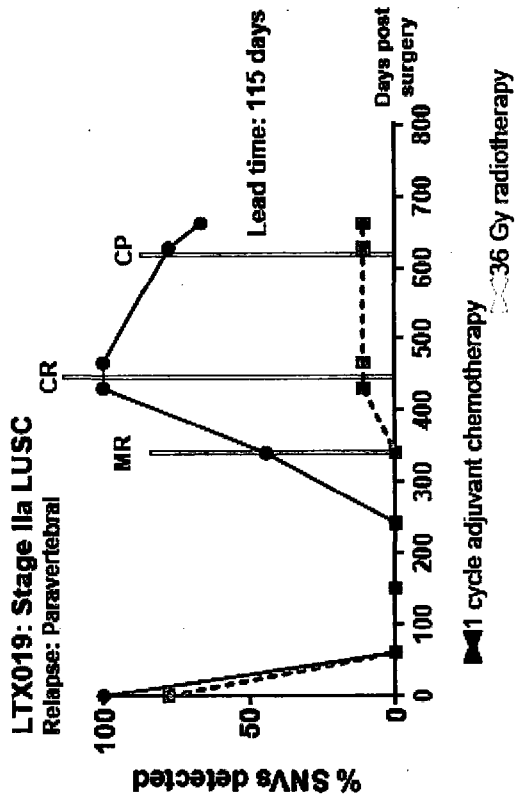


Figure 17A

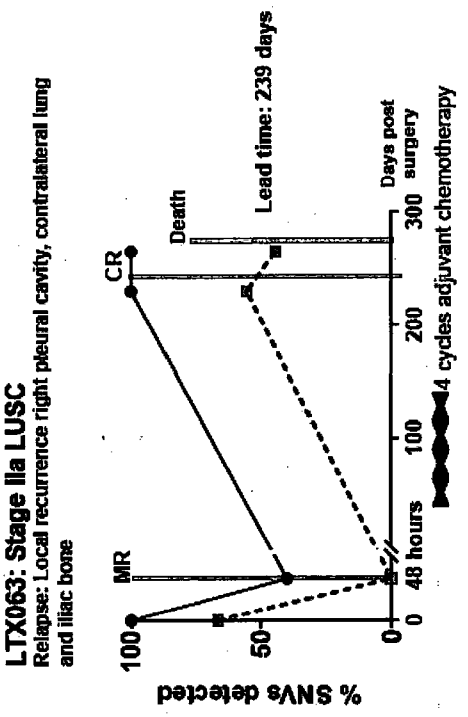


Figure 17D

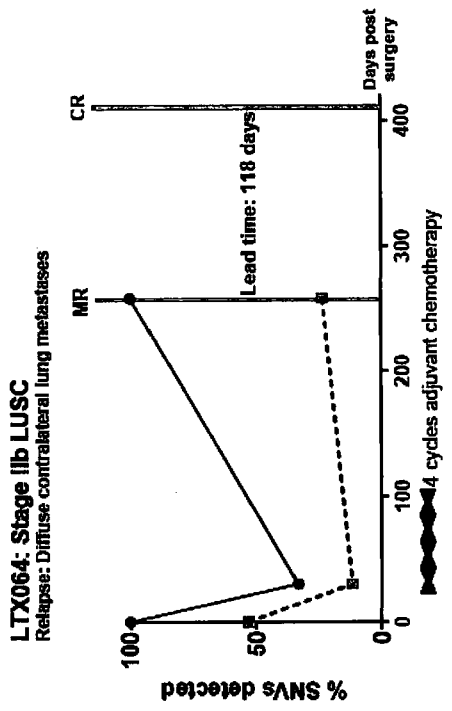


Figure 17C

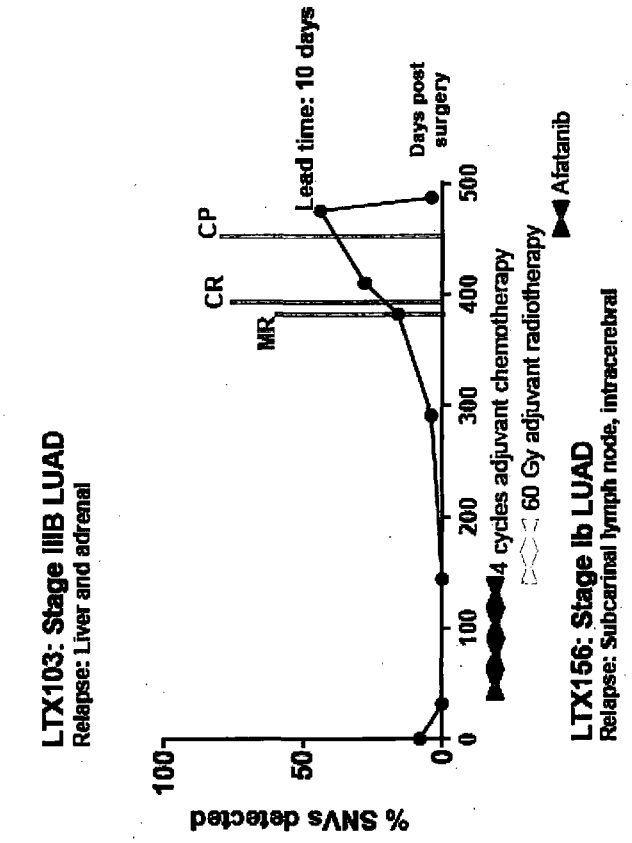


Figure 17F

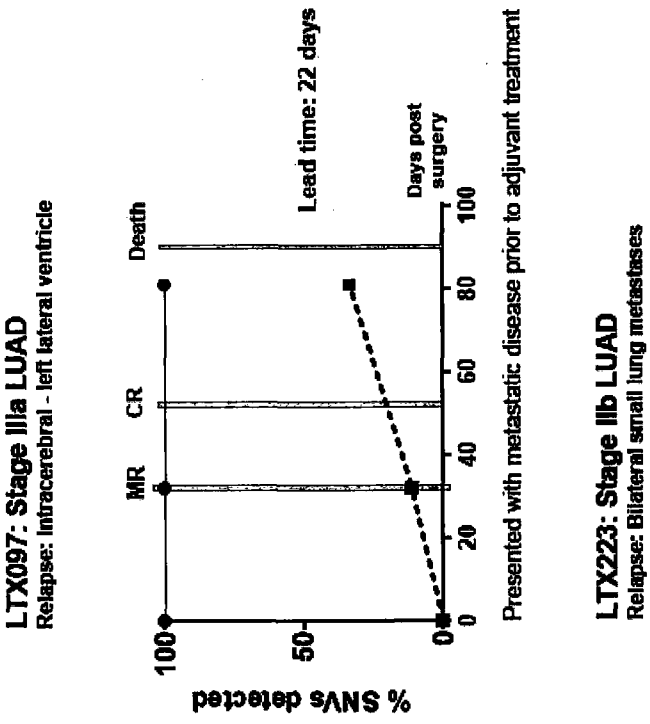


Figure 17E

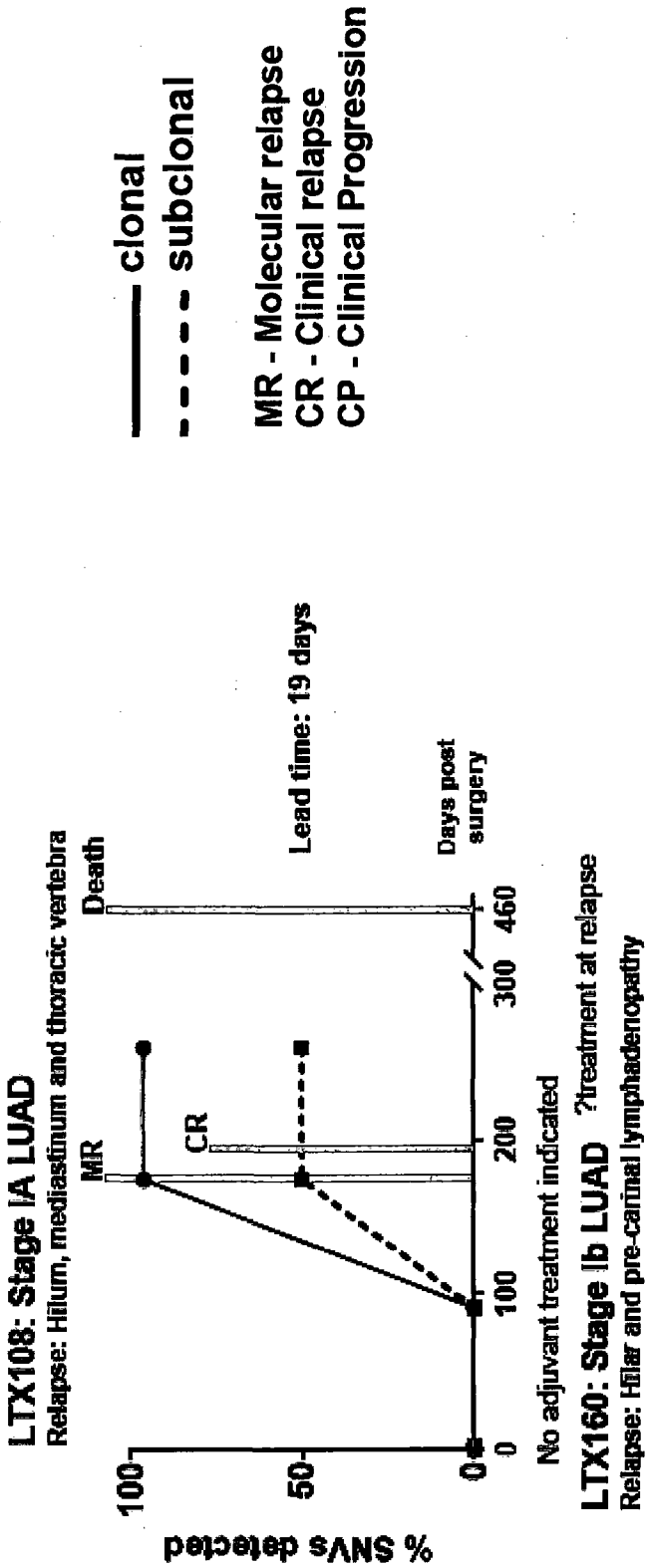

clonal
subclonal
MR - Molecular relapse
CR - Clinical relapse
CP - Clinical Progression
LTX108: Stage IA LUAD
Relapse: Hilum, mediastinum and thoracic vertebra
MR
CR
Death
Lead time: 19 days
Days post surgery
% SNVs detected
100
50
0
0
100
200
300
460
No adjuvant treatment indicated
LTX160: Stage Ib LUAD ?treatment at relapse
Relapse: Hilar and pre-carinal lymphadenopathy

Figure 17G

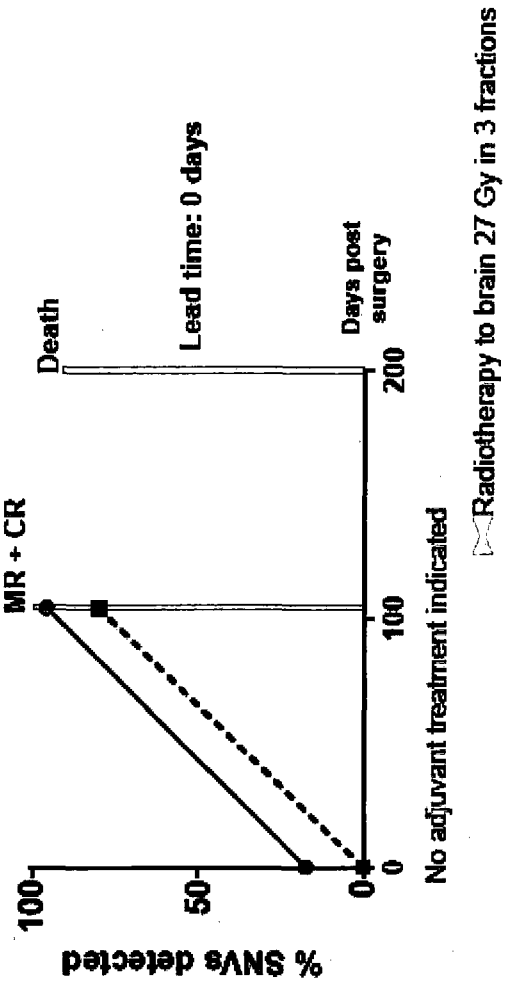


Figure 17I

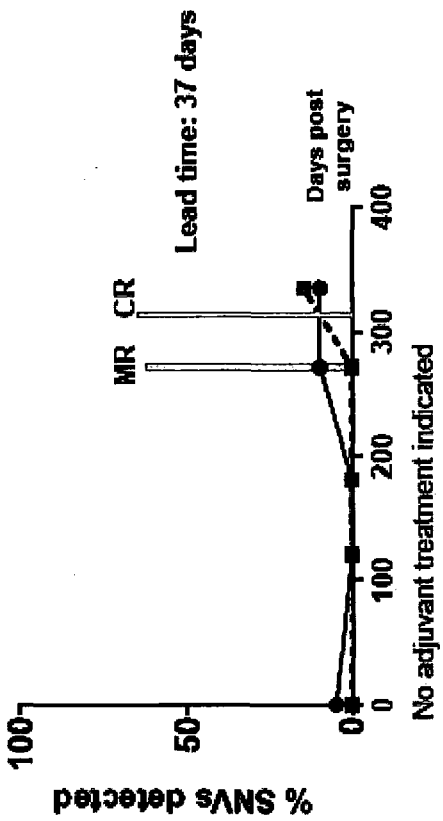


Figure 17H

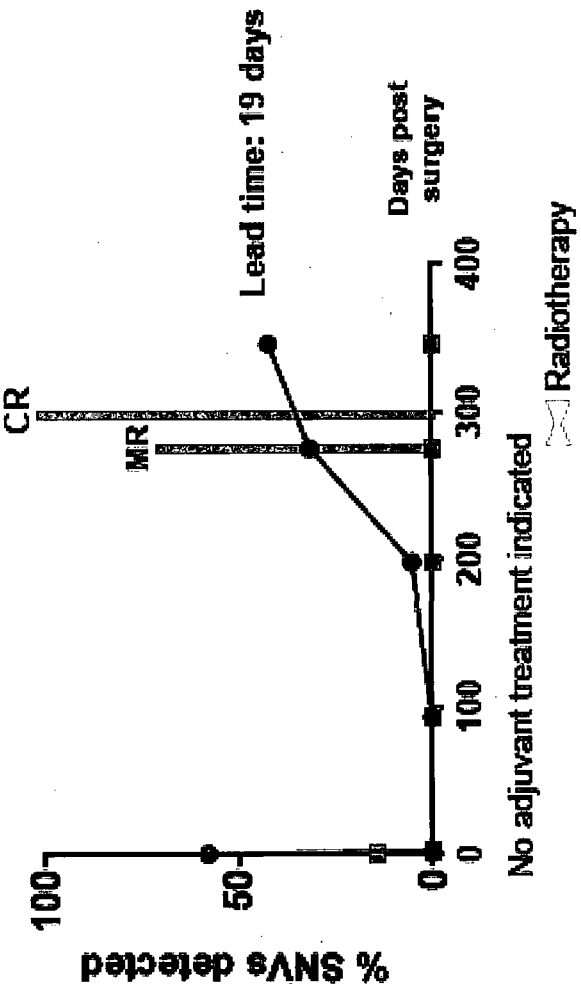

clonal
subclonal
MR - Molecular relapse
CR - Clinical relapse
CP - Clinical Progression
% SNVs detected
100
50
0
0
100
200
300
400
Days post surgery
Lead time: 19 days
CR
MR
No adjuvant treatment indicated
Radiotherapy

Figure 17J

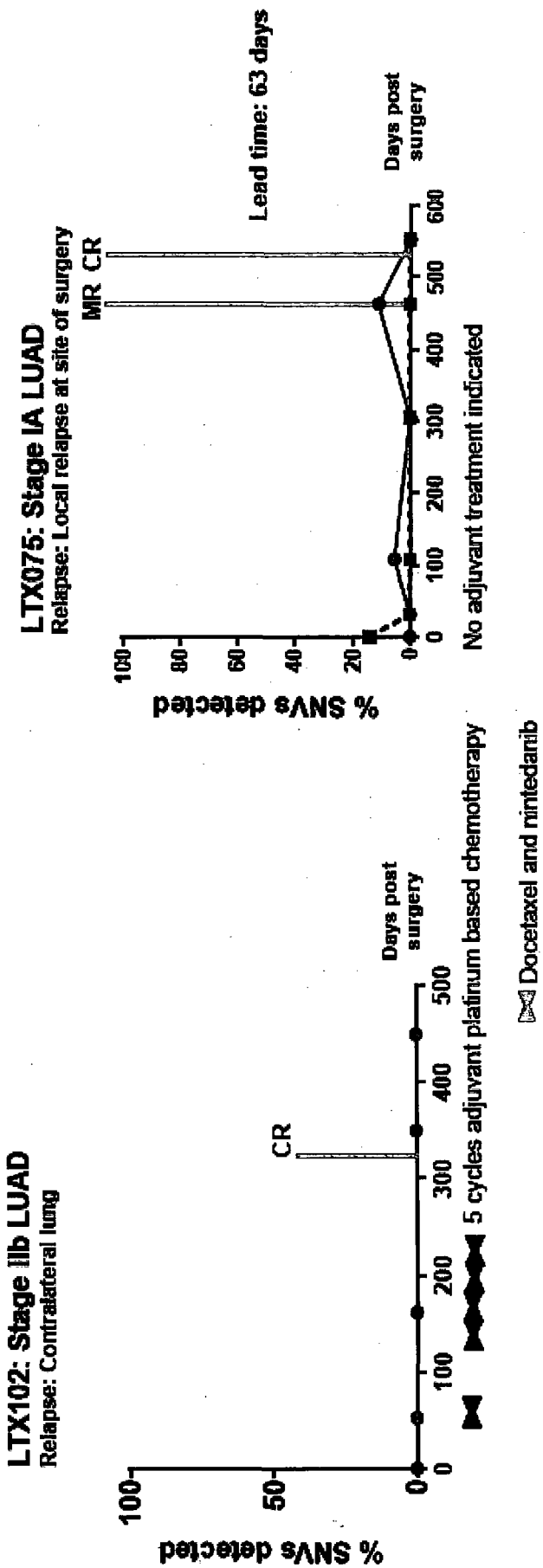


Figure 17K

Figure 17L

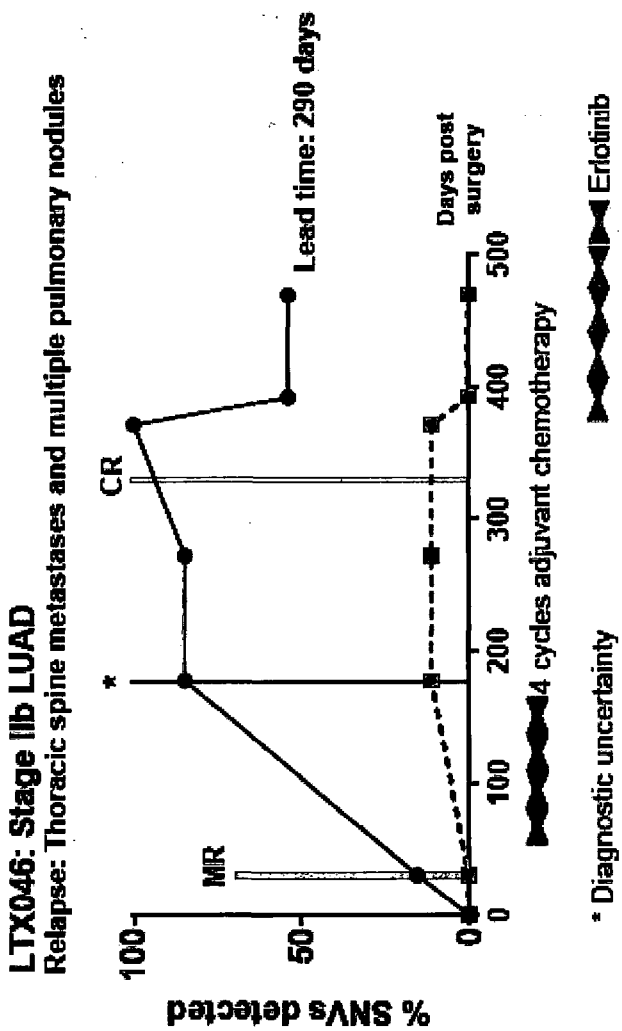

LTX046: Stage IIb LUAD
Relapse: Thoracic spine metastases and multiple pulmonary nodules
clonal
subclonal
MR - Molecular relapse
CR - Clinical relapse
CP - Clinical Progression
% SNVs detected
100
50
0
MR
*
CR
Lead time: 290 days
0
100
200
300
400
500
Days post surgery
4 cycles adjuvant chemotherapy
Erlotinib
* Diagnostic uncertainty

Figure 17M

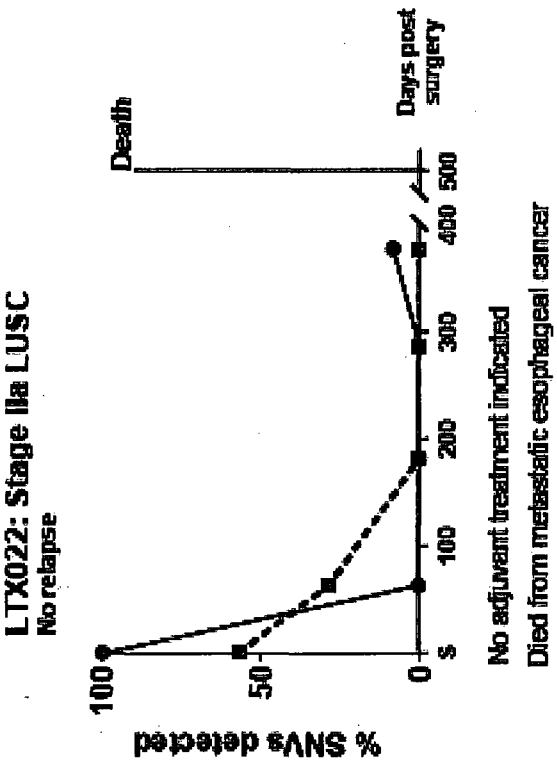


Figure 18B

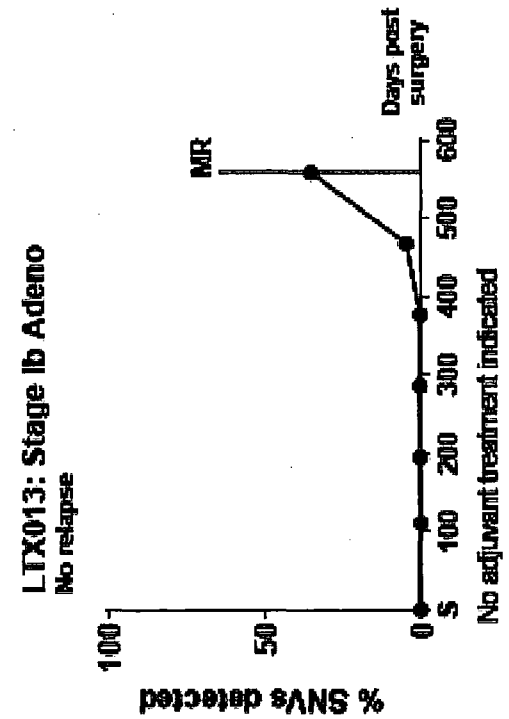


Figure 18A

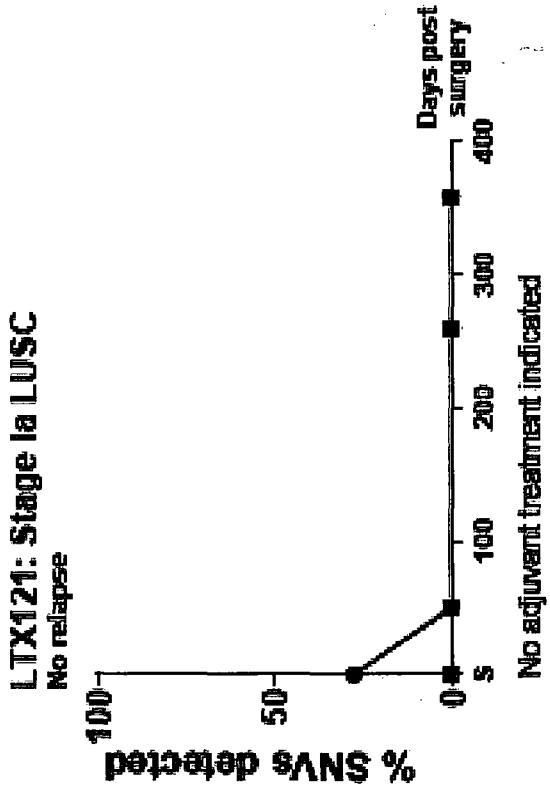

LTX121: Stage Ia LUSC
No relapse
% SNVs detected
100
50
0
S
100
200
300
400
Days post surgery
No adjuvant treatment indicated
clonal
subclonal
MR - Molecular relapse
CR - Clinical relapse
CP - Clinical Progression
S - Surgery

Figure 18C

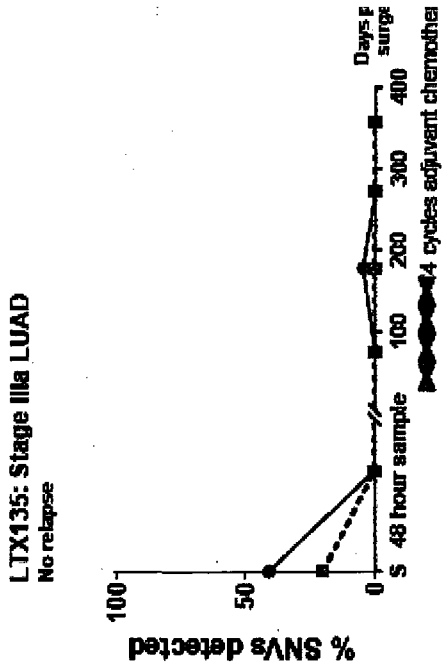


Figure 18F

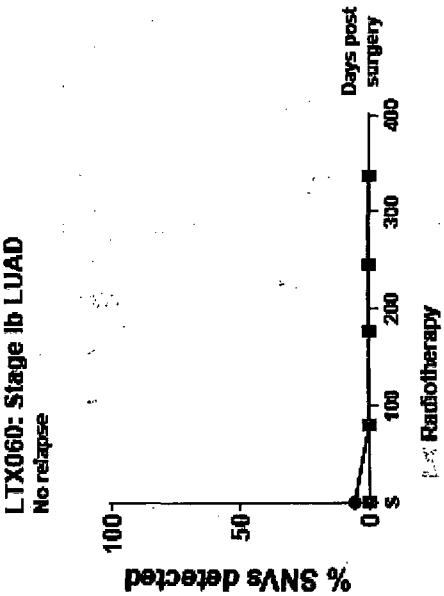


Figure 18E

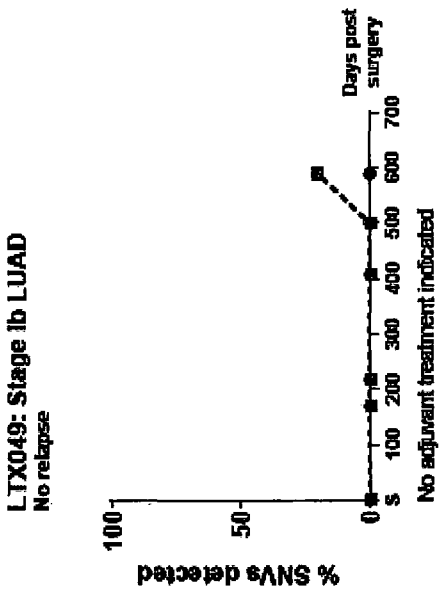


Figure 18 D

clonal

subclonal

MR - Molecular relapse
CR - Clinical relapse
CP - Clinical Progression
S - Surgery

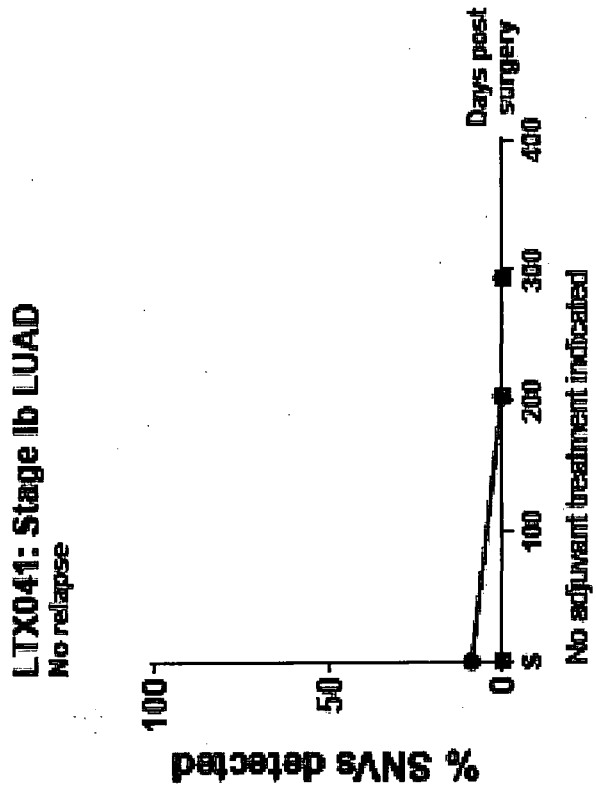


Figure 18H

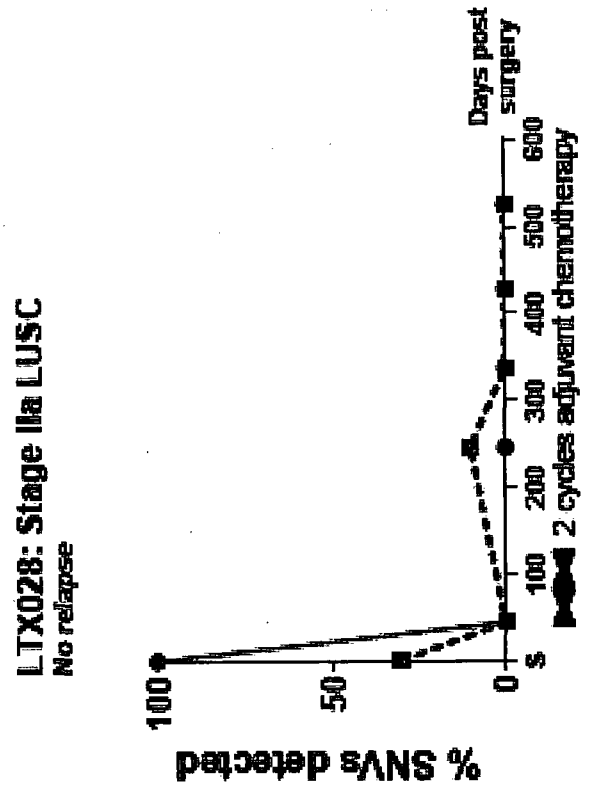


Figure 18G

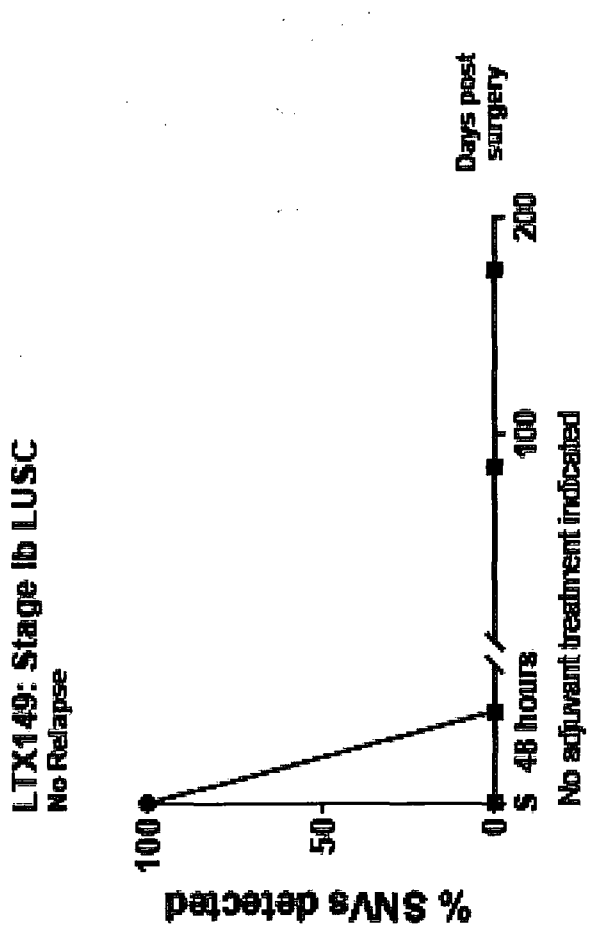

LTX149: Stage Ib LUSC
No Relapse
clonal
subclonal
MR - Molecular relapse
CR - Clinical relapse
CP - Clinical Progression
S - Surgery
% SNVs detected
100
50
0
S 48 hours
100
200
Days post surgery
No adjuvant treatment indicated

Figure 18I

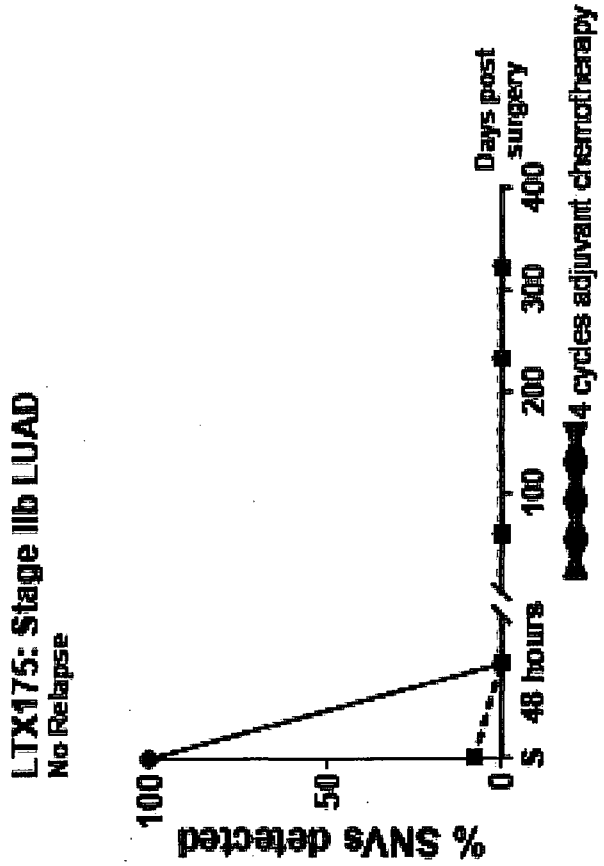


Figure 18K

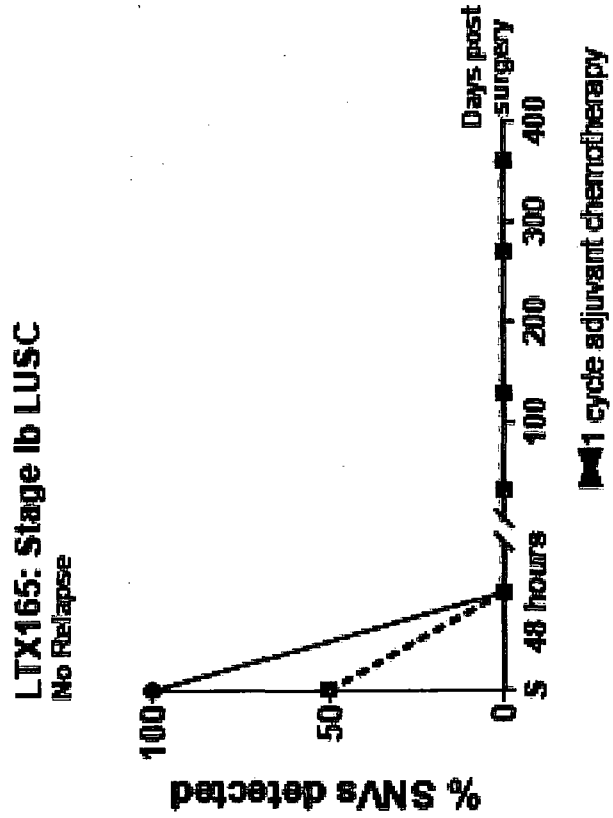


Figure 18J

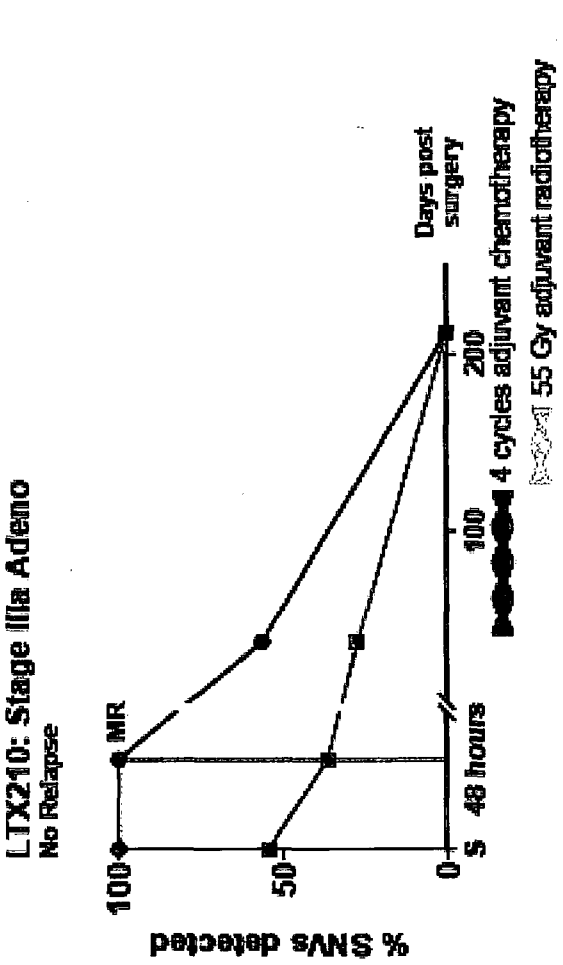
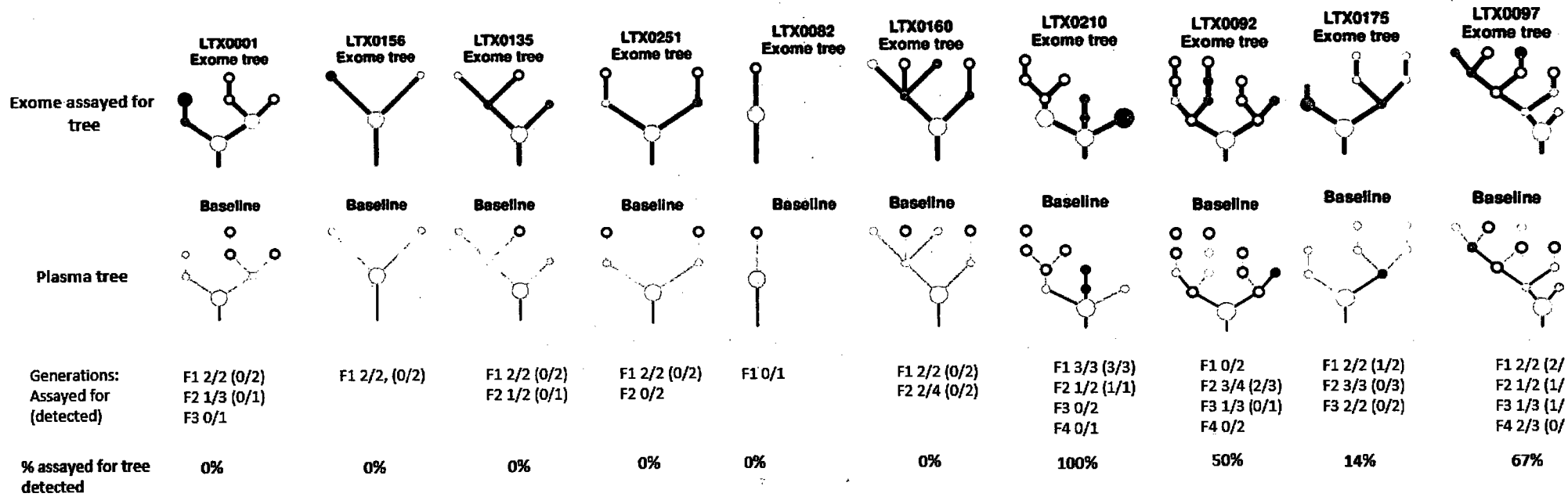

LTX210: Stage IIIa Adeno
No Relapse
% SNVs detected
100
50
0
MR
S
48 hours
100
200
Days post surgery
4 cycles adjuvant chemotherapy
55 Gy adjuvant radiotherapy
clonal
subclonal
MR - Molecular relapse
CR - Clinical relapse
CP - Clinical Progression
S - Surgery

Figure 18L

LUAD



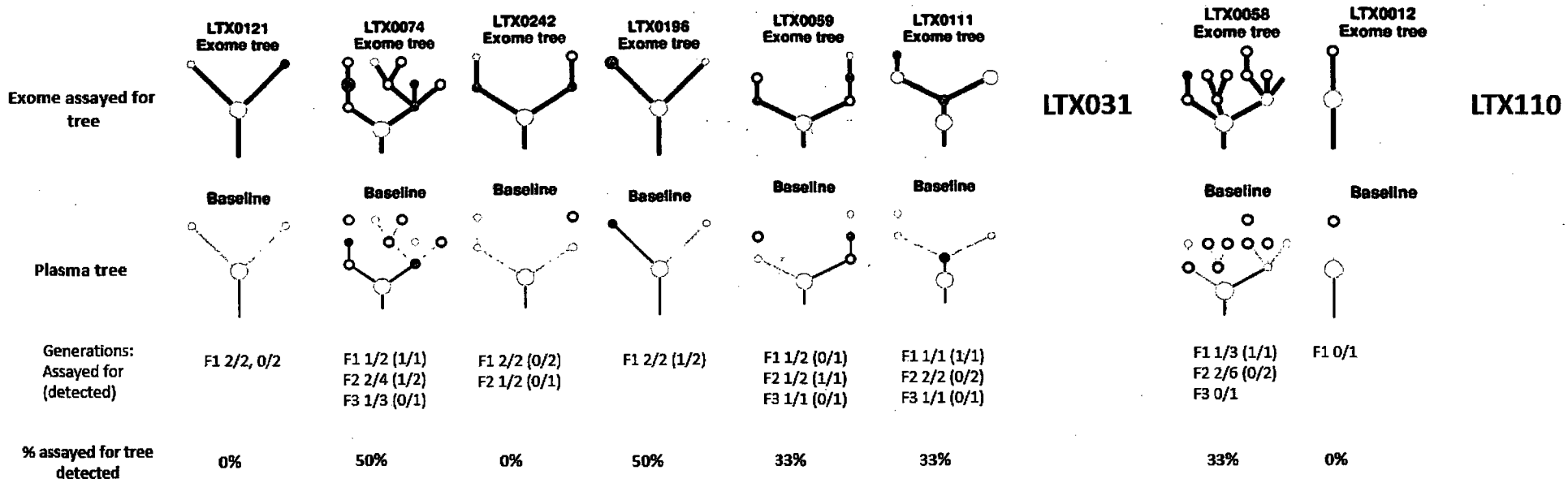
○ Cluster not assayed for

○ Cluster not detected

Size of cluster relative to number of assays directed toward cluster

Figure 19A

LUSC



○ Cluster not assayed for

○ Cluster not detected

Size of cluster relative to number of assays directed toward cluster

Figure 19B

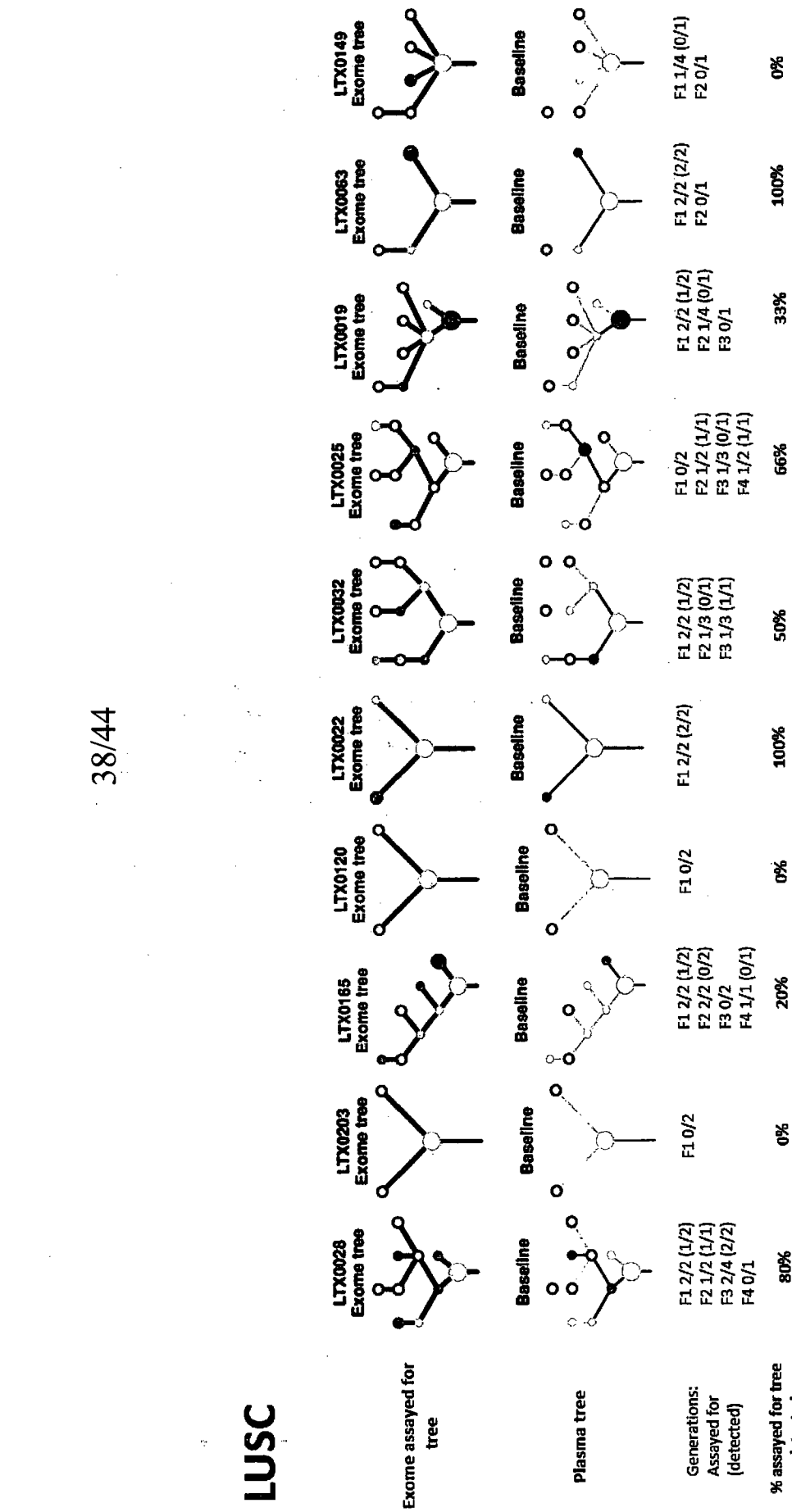

LUSC
Exome assayed for tree
Plasma tree
Generations: Assayed for (detected)
% assayed for tree detected
LTX0028 Exome tree
LTX0203 Exome tree
LTX0165 Exome tree
LTX0120 Exome tree
LTX0022 Exome tree
LTX0032 Exome tree
LTX0025 Exome tree
LTX0019 Exome tree
LTX0063 Exome tree
LTX0149 Exome tree
Baseline
F1 2/2 (1/2)
F2 1/2 (1/1)
F3 2/4 (2/2)
F4 0/1
80%
F1 0/2
0%
F1 2/2 (1/2)
F2 2/2 (0/2)
F3 0/2
F4 1/1 (0/1)
20%
F1 0/2
0%
F1 2/2 (2/2)
100%
F1 2/2 (1/2)
F2 1/3 (0/1)
F3 1/3 (1/1)
50%
F1 0/2
F2 1/2 (1/1)
F3 1/3 (0/1)
F4 1/2 (1/1)
66%
F1 2/2 (1/2)
F2 1/4 (0/1)
F3 0/1
33%
F1 2/2 (2/2)
F2 0/1
100%
F1 1/4 (0/1)
F2 0/1
0%
Cluster not assayed for
Cluster not detected
Size of cluster relative to number of assays directed toward cluster

Figure 19C

LUSC

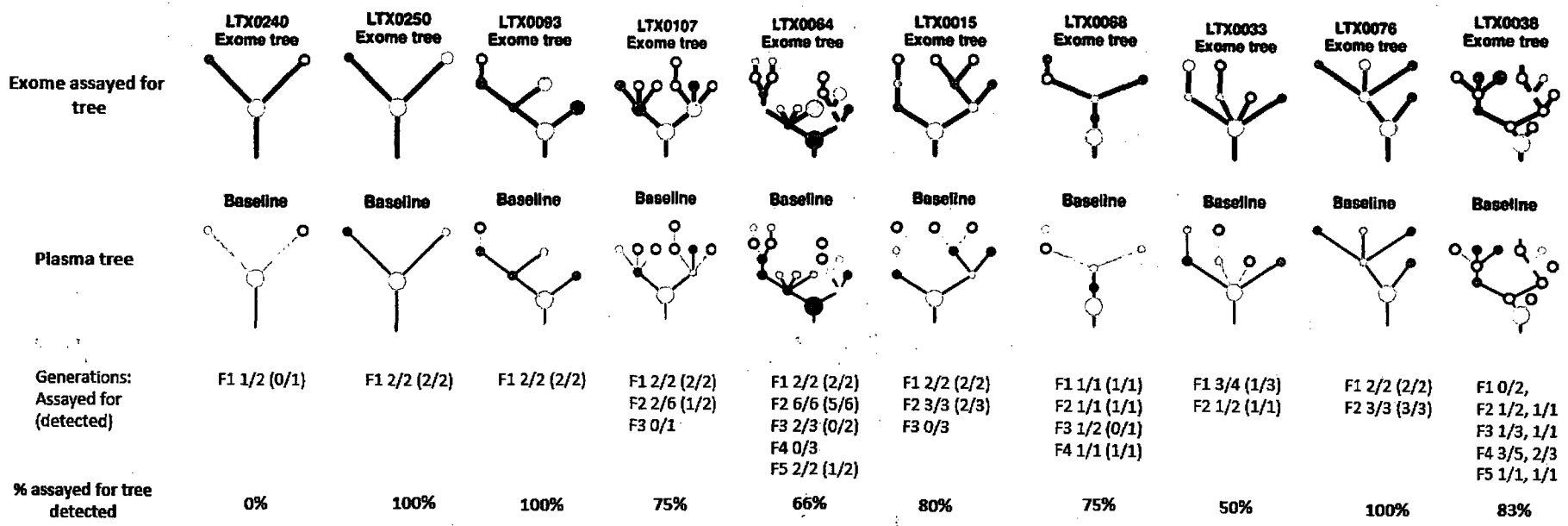
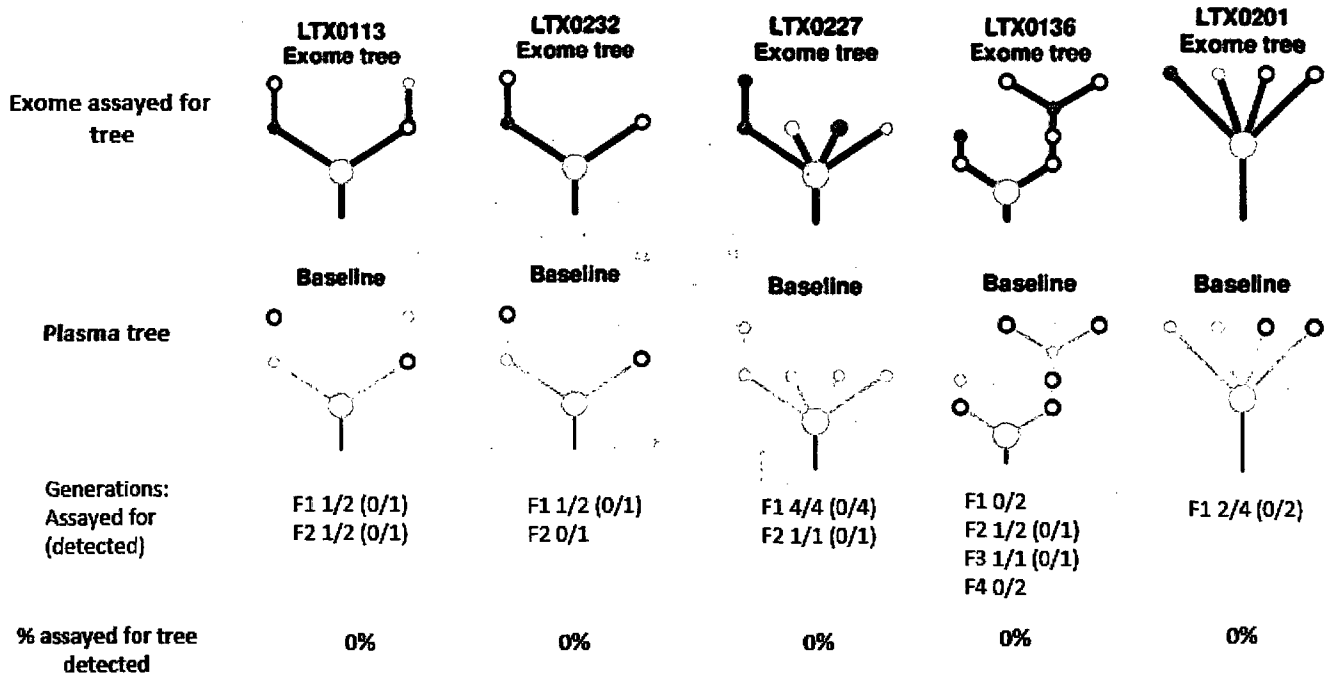


Figure 19D

Other



○ Cluster not assayed for

○ Cluster not detected

Size of cluster relative to number of assays directed toward cluster

Figure 19E

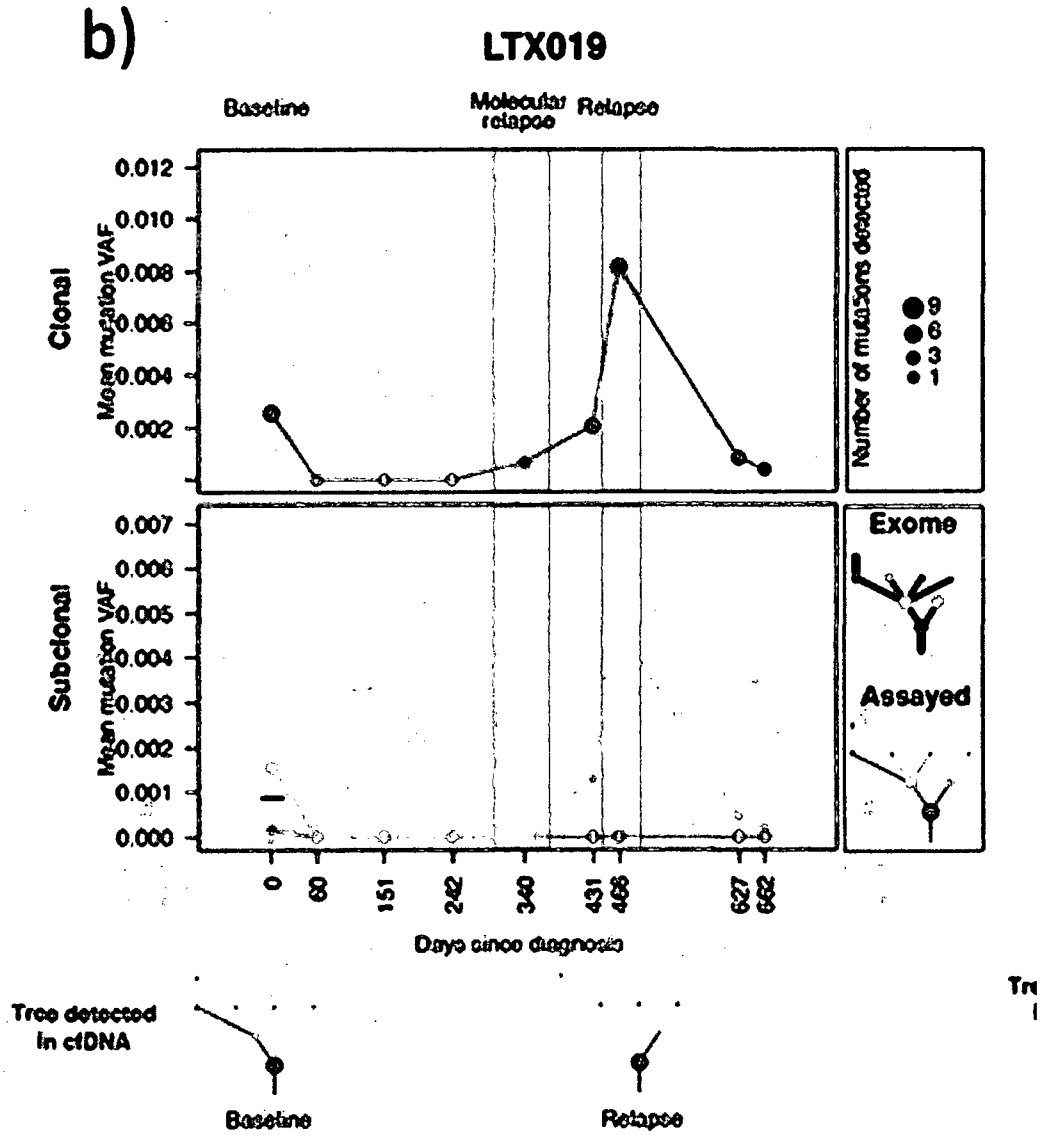

b)
LTX019
Baseline
Molecular relapse
Relapse
Clonal
Mean mutation VAF
0.012
0.010
0.008
0.006
0.004
0.002
Number of mutations detected
9
6
3
1
Subclonal
Mean mutation VAF
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0.000
Exome
Assayed
0
80
151
242
340
431
468
627
662
Days since diagnosis
Tree detected in cfDNA
Baseline
Relapse

Figure 20A

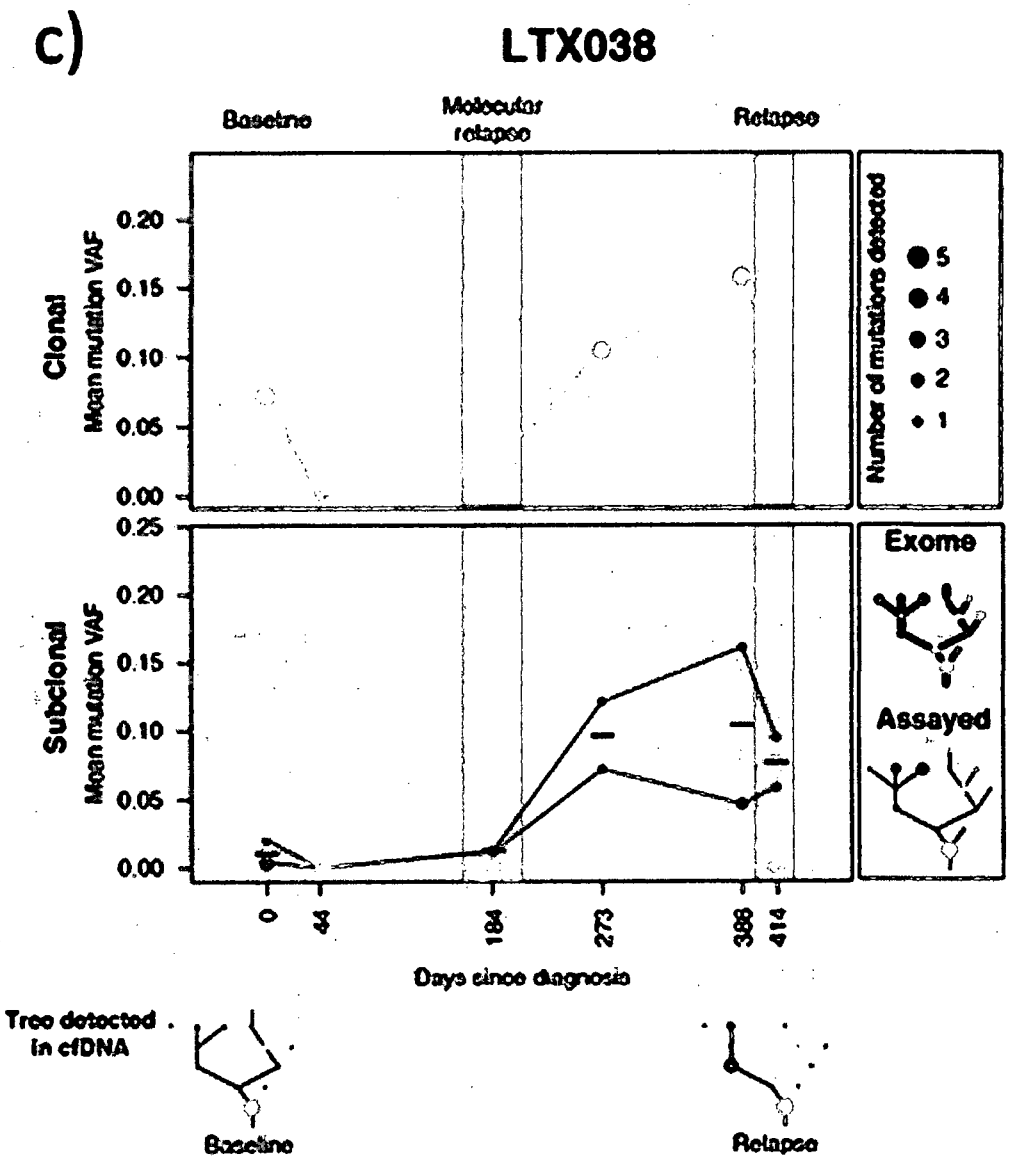

C)
LTX038
Baseline
Molecular relapse
Relapse
Clonal
Mean mutation VAF
0.20
0.15
0.10
0.05
0.00
Number of mutations detected
5
4
3
2
1
Subclonal
Mean mutation VAF
0.25
0.20
0.15
0.10
0.05
0.00
Exome
Assayed
0
44
184
273
388
414
Days since diagnosis
Tree detected in cfDNA
Baseline
Relapse

Figure 20B

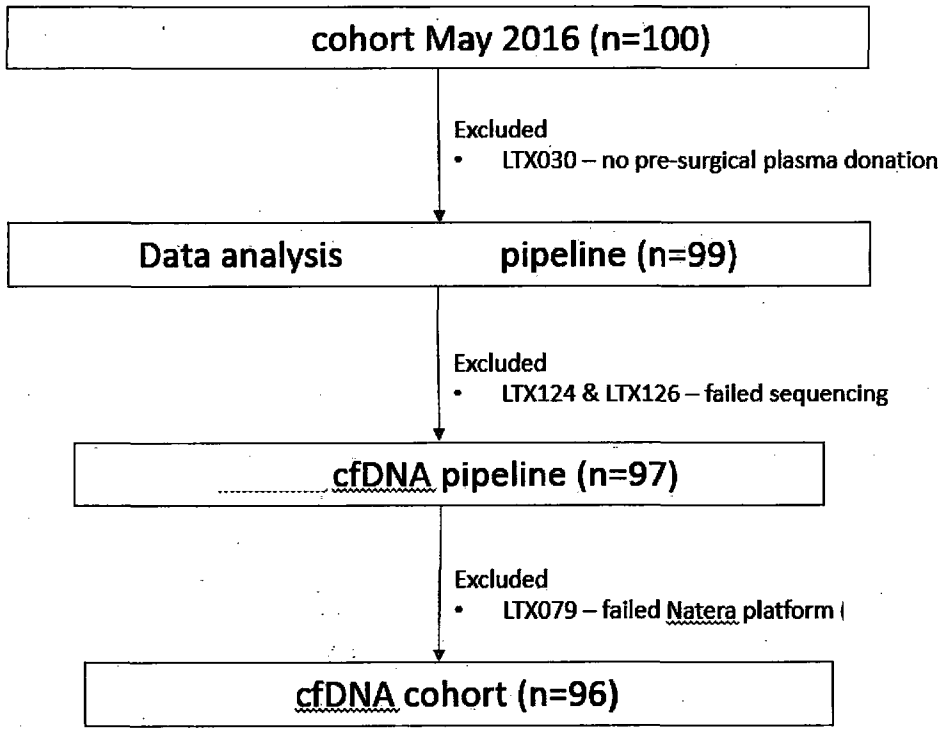

cohort May 2016 (n=100)
Excluded
• LTX030 – no pre-surgical plasma donation
Data analysis pipeline (n=99)
Excluded
• LTX124 & LTX126 – failed sequencing
cfDNA pipeline (n=97)
Excluded
• LTX079 – failed Natera platform
cfDNA cohort (n=96)

Figure 21

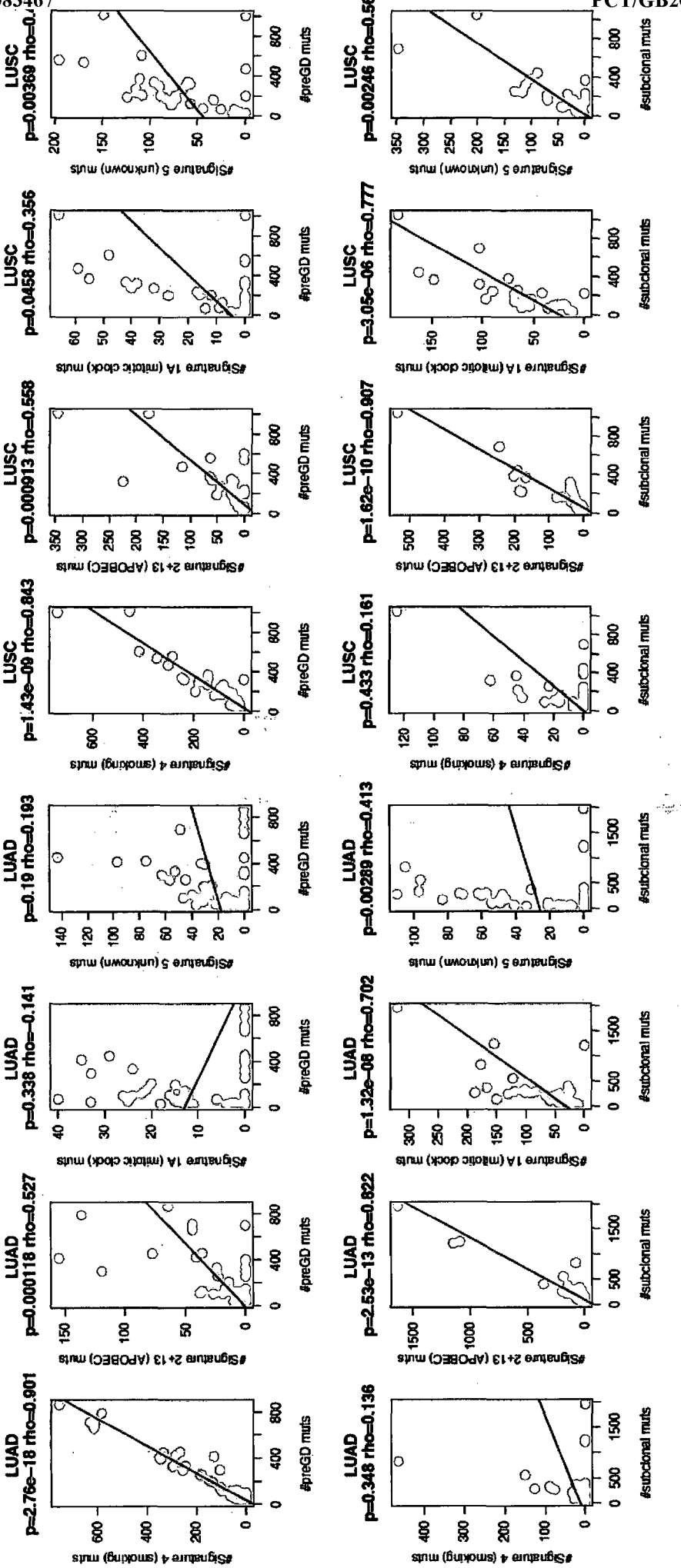

LUAD p=2.76e−18 rho=0.901
#Signature 4 (smoking) muts
#preGD muts
LUAD p=0.000118 rho=0.527
#Signature 2+13 (APOBEC) muts
#preGD muts
LUAD p=0.338 rho=−0.141
#Signature 1A (mitotic clock) muts
#preGD muts
LUAD p=0.19 rho=0.193
#Signature 5 (unknown) muts
#preGD muts
LUSC p=1.43e−09 rho=0.843
#Signature 4 (smoking) muts
#preGD muts
LUSC p=0.000913 rho=0.558
#Signature 2+13 (APOBEC) muts
#preGD muts
LUSC p=0.0458 rho=0.356
#Signature 1A (mitotic clock) muts
#preGD muts
LUSC p=0.00369 rho=0.4
#Signature 5 (unknown) muts
#preGD muts
LUAD p=0.348 rho=0.136
#Signature 4 (smoking) muts
#subclonal muts
LUAD p=2.53e−13 rho=0.822
#Signature 2+13 (APOBEC) muts
#subclonal muts
LUAD p=1.32e−06 rho=0.702
#Signature 1A (mitotic clock) muts
#subclonal muts
LUAD p=0.00289 rho=0.413
#Signature 5 (unknown) muts
#subclonal muts
LUSC p=0.433 rho=0.161
#Signature 4 (smoking) muts
#subclonal muts
LUSC p=1.62e−10 rho=0.807
#Signature 2+13 (APOBEC) muts
#subclonal muts
LUSC p=3.05e−06 rho=0.777
#Signature 1A (mitotic clock) muts
#subclonal muts
LUSC p=0.00246 rho=0.568
#Signature 5 (unknown) muts
#subclonal muts

Figure 22