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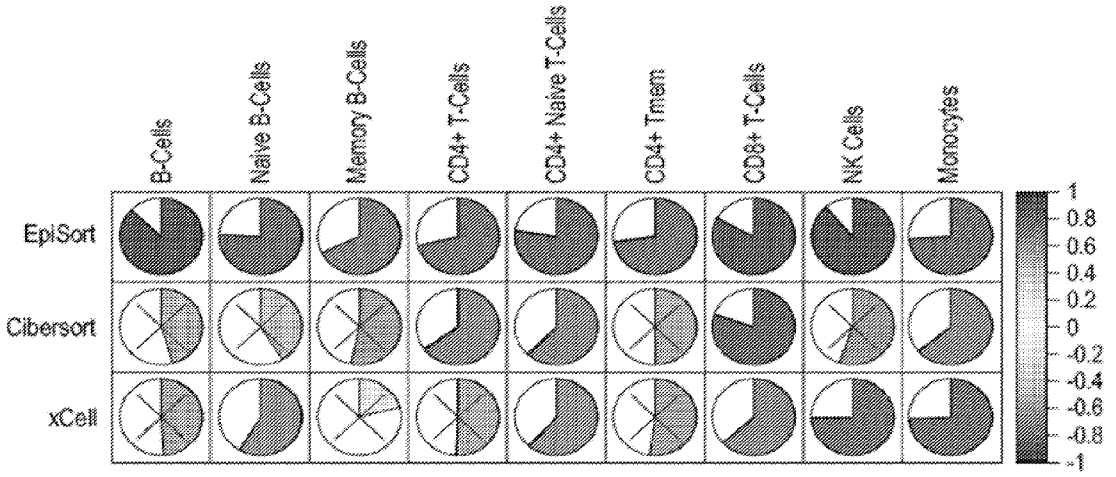

FIG. 4

(57) Abstract: Methods of determining proportions of cell types in a sample using methylation status are provided.

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DETERMINATION OF CELL TYPES IN MIXTURES USING TARGETED BISULFITE SEQUENCING

CROSS-REFERENCES TO RELATED APPLICATIONS

[0001] This application claims the benefit of U.S. Provisional Application No. 62/338,845, filed May 19, 2016, which is incorporated by reference in its entirety herein for all purposes.

STATEMENT AS TO RIGHTS TO INVENTIONS MADE UNDER FEDERALLY SPONSORED RESEARCH AND DEVELOPMENT

[0002] This invention was made with government support under grant no. U24 CA195858 awarded by the National Institutes of Health. The government has certain rights in the invention.

BACKGROUND OF THE INVENTION

[0003] Analysis of the composition of the different cell types constituting a tissue is useful to understanding of the pathogenesis of a broad range of human diseases. For example, tumor-infiltrating immune cells have long been thought to affect tumor growth. In recent years, large retrospective studies have shown that the nature and polarization of the immune cells found within the tumor microenvironment impact not only the growth of the primary tumor, but also disease progression and patient survival. *See, e.g.*, Toh *et al.*, *Methods Mol Biol.* 961:261-77 (2013).

BRIEF SUMMARY OF THE INVENTION

[0004] Methods for identifying a set of genetic loci having methylation states that distinguish between cell types are provided. In some embodiments, the methods comprise:

receiving quantitative nucleotide sequencing data for a plurality of different cell types, where the data includes designations whether cytosines are methylated; and

selecting genetic loci from the quantitative nucleotide sequencing data:

(i) that have at least three CpG sequences within 200 contiguous nucleotides,

(ii) for which all of the at least three CpG sequences are fully methylated or fully unmethylated for a particular cell type; and

(iii) wherein methylation status of the at least three CpG sequences is stably different between two different cell types,

thereby selecting a set of genetic loci having methylation states that distinguish between cell types.

[0005] In some embodiments, the cell types are mammalian immune cell types. In some embodiments, the plurality of different cell types comprises at least two (e.g., 2, 3, 4, 5, 6, 7, 8, 9, 10 or more) cell types selected from hematopoietic stem cells, neutrophils, CD4+ naive T-cell, CD8+ naïve T-cell, CD4+ Central Memory T-cell, CD8+ Central Memory T-cell, CD4+ Effector Memory T-cell, CD8+ Effector Memory T-cell, regulatory T-cells, natural killer cells, naïve B-cells, memory B-cells, plasma cells, precursor B-cells, monocytes, dendritic cells, macrophages M0, macrophages M1, macrophages M2, eosinophils, erythroblasts, or basophils. In some embodiments, the cell types comprise one or more (e.g., two or more) T helper cell types, for example, one or more of Th1, Th2 or Th17 cells. In some embodiments, the tissue comprises stroma cells and at least two (e.g., 2, 3, 4, 5, 6, 7, 8, 9, 10 or more) cell types are selected from endothelial cells, fibroblasts, pericytes, smooth muscle cells, skeletal muscle cells, mast cells, adipocytes, mesenchymal stem cells, and epithelial cells. In some embodiments, at least two (e.g., 2, 3, 4, 5, 6, 7, 8, 9, 10 or more) cell types are selected from melanocytes, hepatocytes, astrocytes, mesangial cells, and keratinocytes.

[0006] In some embodiments, the genetic loci are scored as "methylated" when at least a majority of the CpG sequences are determined to be methylated and the genetic loci are scored as "unmethylated" when at least a majority of the CpG sequences are determined to be unmethylated.

[0007] In some embodiments, the methylation status signatures each have between 50-200 (e.g., 50-100, 30-100) different genetic loci.

[0008] In some embodiments, the set of genetic loci is between 500-10,000 (e.g., 500-5000, 500-7500, 200-5000, 200-3000) different loci.

[0009] In some embodiments, at least 70%, 80%, 90%, 95%, or 100% of the genetic loci are between 200-1000 (e.g., 200-500) nucleotides in length.

[0010] In some embodiments, the quantitatively nucleotide sequencing comprises bisulfite deep sequencing.

[0011] In some embodiments, one or more of the above-listed steps are computer implemented.

[0012] Also provided are methods for determining the proportion and identity of different cell types in a sample. In some embodiments, the methods comprise:

providing genomic DNA from a sample having a mixture of different cell types;

quantitatively nucleotide sequencing a plurality of unique copies of the genomic DNA at said set of genetic loci having methylation states that distinguish between cell types of claim 1, wherein the nucleotide sequencing includes designations whether cytosines are methylated, to generate a set of determined sequencing reads having a determined methylation status at each genetic locus in the set of genetic loci;

comparing the set of determined sequencing reads to a reference set of a plurality of different methylation status signatures that distinguish between at least two different cell types in the sample; and

determining the proportion of occurrences of different methylation status signatures in the set of determined sequencing reads and determining the proportion and identity of different cell types in the sample by deconvoluting the occurrences of different methylation status signatures.

[0013] In some embodiments, the cell types are mammalian immune cell types. In some embodiments, the plurality of different cell types comprises at least two (e.g., 2, 3, 4, 5, 6, 7, 8, 9, 10 or more) cell types selected from hematopoietic stem cells, neutrophils, CD4+ naive T-cell, CD8+ naïve T-cell, CD4+ Central Memory T-cell, CD8+ Central Memory T-cell, CD4+ Effector Memory T-cell, CD8+ Effector Memory T-cell, regulatory T-cells, natural killer cells, naïve B-cells, memory B-cells, plasma cells, precursor B-cells, monocytes, dendritic cells, macrophages M0, macrophages M1, macrophages M2, eosinophils, erythroblasts, or basophils. In some embodiments, the cell types comprise one or more (e.g., two or more) T helper cell types, for example, one or more of Th1, Th2 or Th17 cells. In some embodiments, the tissue comprises stroma cells and at least two (e.g., 2, 3, 4, 5, 6, 7, 8, 9, 10 or more) cell types are selected from endothelial cells, fibroblasts, pericytes, smooth muscle cells, skeletal muscle cells, mast cells, adipocytes, mesenchymal stem cells, and

epithelial cells. In some embodiments, at least two (e.g., 2, 3, 4, 5, 6, 7, 8, 9, 10 or more) cell types are selected from melanocytes, hepatocytes, astrocytes, mesangial cells, and keratinocytes.

[0014] In some embodiments, the genetic loci are scored as "methylated" when at least a majority of the CpG sequences are determined to be methylated and the genetic loci are scored as "unmethylated" when at least a majority of the CpG sequences are determined to be unmethylated.

[0015] In some embodiments, the methylation status signatures each have between 50-200 (e.g., 50-100, 30-100) different genetic loci.

[0016] In some embodiments, the set of genetic loci is between 500-10,000 (e.g., 500-5000, 500-7500, 200-5000, 200-3000) different loci.

[0017] In some embodiments, at least 70%, 80%, 90%, 95%, or 100% of the genetic loci are between 200-1000 (e.g., 200-500) nucleotides in length.

[0018] In some embodiments, the quantitatively nucleotide sequencing comprises bisulfite deep sequencing.

[0019] In some embodiments, one or more of the above-listed steps are computer implemented.

[0020] Also provided are computer products comprising a non-transitory computer readable medium storing a plurality of instructions that when executed determine the proportion and identity of different cell types in a sample. In some embodiments, the instructions comprise:

receiving a set of determined sequencing reads from genomic DNA from a sample having a mixture of different cell types, the set of determined sequencing reads having a determined methylation status at each genetic locus in the set of genetic loci, the set of determined sequencing reads generated by quantitatively nucleotide sequencing a plurality of unique copies of the genomic DNA at the set of genetic loci having methylation states that distinguish between cell types of claim 1, wherein the nucleotide sequencing includes designations whether cytosines are methylated;

comparing the set of determined sequencing reads to a reference set of a plurality of different methylation status signature that distinguishes between at least two different cell types in the sample; and

determining the proportion of occurrences of different methylation status signatures in the set of determined sequencing reads and determining the proportion and identity of different cell types in the sample by deconvoluting the occurrences of different methylation status signatures.

[0021] In some embodiments, the cell types are mammalian immune cell types. In some embodiments, the plurality of different cell types comprises at least two (e.g., 2, 3, 4, 5, 6, 7, 8, 9, 10 or more) cell types selected from hematopoietic stem cells, neutrophils, CD4+ naive T-cell, CD8+ naïve T-cell, CD4+ Central Memory T-cell, CD8+ Central Memory T-cell, CD4+ Effector Memory T-cell, CD8+ Effector Memory T-cell, regulatory T-cells, natural killer cells, naïve B-cells, memory B-cells, plasma cells, precursor B-cells, monocytes, dendritic cells, macrophages M0, macrophages M1, macrophages M2, eosinophils, erythroblasts, or basophils. In some embodiments, the cell types comprise one or more (e.g., two or more) T helper cell types, for example, one or more of Th1, Th2 or Th17 cells. In some embodiments, the tissue comprises stroma cells and at least two (e.g., 2, 3, 4, 5, 6, 7, 8, 9, 10 or more) cell types are selected from endothelial cells, fibroblasts, pericytes, smooth muscle cells, skeletal muscle cells, mast cells, adipocytes, mesenchymal stem cells, and epithelial cells. In some embodiments, at least two (e.g., 2, 3, 4, 5, 6, 7, 8, 9, 10 or more) cell types are selected from melanocytes, hepatocytes, astrocytes, mesangial cells, and keratinocytes.

[0022] In some embodiments, the genetic loci are scored as "methylated" when at least a majority of the CpG sequences are determined to be methylated and the genetic loci are scored as "unmethylated" when at least a majority of the CpG sequences are determined to be unmethylated.

[0023] In some embodiments, the methylation status signatures each have between 50-200 (e.g., 50-100, 30-100) different genetic loci.

[0024] In some embodiments, the set of genetic loci is between 500-10,000 (e.g., 500-5000, 500-7500, 200-5000, 200-3000) different loci.

[0025] In some embodiments, at least 70%, 80%, 90%, 95%, or 100% of the genetic loci are between 200-1000 (e.g., 200-500) nucleotides in length.

[0026] In some embodiments, wherein the quantitatively nucleotide sequencing comprises bisulfite deep sequencing.

[0027] Also provided of using the computer products described above or elsewhere herein to determine the proportion and identity of different cell types in a sample.

BRIEF DESCRIPTION OF THE DRAWINGS

[0028] FIG. 1A is an illustration of the problem of relying on single CpG to infer epistates. In both examples a third of the CpGs are methylated (black). In the left reads set it is clear that there are two epistates, possibly from two different cell types, while the right reads set cannot be split to epistates. However, a method that will call methylation from independent CpGs will not be able to differentiate between the two sets.

[0029] FIG. 1B is a schematic of an overview of the design and validation of a method in accordance with an embodiment.

[0030] FIG. 1C is a graph of an example of inferences of underlying abundance of an in-silico simulation based on the WGBS data.

[0031] FIG. 1D is a graph demonstrating inferring cell proportions in public WGBS samples. CD4+ T-cells of a centenarian are more specialized then newborn's, possibly explaining many differences found in the methylation profiles. A mislabeled macrophages sample was detected as 100% monocytes.

[0032] FIG. 2A presents a series of graphs showing results from applying a method in accordance with an embodiment to in silico and in vitro mixtures. The reference dendritic cell is conventional (cDC), while we applied it on plasmacytoid (pDC), presumably explaining its prediction failure. A linear function was used to shift and scale the associations.

[0033] FIG. 2B presents a series of graphs showing results from applying a method in accordance with an embodiment to 20 PBMCs, and comparing the inferences with abundances measured using CyTOF immunoprofiling on the same samples. In 14 of the 15 cell types the correlation is significant (p-*value* < 0.05), and in regulatory T-cells (Tregs) the significance is marginal (p=0.06).

[0034] FIG. 3A is a chart illustrating Pearson coefficients of correlations between targeted methylation calls and a reference matrix. Targeted bisulfite sequencing was performed on eight pure immune cell types. The percent of on-target reads was lower than expected, thus we were not able to use the full power of the methods. Only ~55% of the regions had at least 20 reads, and only 22% over 50 reads. We computed methylation calls for each of the regions, which is the fraction of reads with majority of CpGs methylated from all reads that have a majority. The top correlation for each of the targeted cells is the corresponding cell types.

[0035] FIG. 3B is a series of graphs plotting methylation calls for each of the regions described in FIG. 3A using the 20 reads threshold. The reference for pDCs is cDCs, which might explain the failure of the unmethylated regions.

[0036] FIG. 3C is pair of graphs plotting the percent of discordance between the reference matrix and the targeted cells.

[0037] FIG. 3D is a chart showing inferences on pure cell types using a method in accordance with an embodiment. The predictions fails in both Neutrophils and pDCs, and also lower success in CD8+ T-cells.

[0038] FIG. 4 is a chart showing a comparison of results obtained using a method in accordance with an embodiment, to results obtained gene-expression based methods.

[0039] FIG. 5 is a block diagram of a computer system in accordance with an embodiment.

[0040] FIG. 6 is a table of genetic loci that can be used in methods in accordance with an embodiment.

[0041] FIG. 7 is a table of results from deconvoluting publicly available whole genome bisulfite sequencing data. Methylation calls were downloaded from MethBase [Song, Q. et al., *PLoS One*, 8, (2013)]. The data was generated by [Heyn, H. et al., *Epigenetics*, 7, 542–50 (2012); Sur, I. & Taipale, J., *Nat Rev. Cancer*, 28, 1045–1048 (2016); Heyn, H. et al., *Proc. Natl. Acad. Sci. U. S. A.*, 109, 10522–7 (2012); Pacis, A. et al., *Genome Res.*, 25, 1801–11 (2015); Lund, K. et al., *Genome Biol.*, 15, 406 (2014); Li, Y. et al., *PLoS Biol.*, 8, e1000533 (2010)]. Average methylation of the 9,291 regions was calculated for each sample (were data was available), and linear least square analysis was performed using the reference matrix we generated.

[0042] FIG. 8 is a table of results from a targeted bisulfite sequencing experiment on 32 samples: 8 pure cell types, 4 mixes of those cell types and 20 PBMCs which were also analyzed using CyTOF immunoprofiling. All captured pools were sequenced using one HiSeq 2000 single-end rapid lane. The table shows the amount of DNA per sample, number of reads, mapped reads using Bismark, on-target reads with at least 1 CpG intersecting targeted reads, and with at least 2 CpGs. Samples with as low as 42 nanograms of initial DNA performed equally as samples with 1ug initial DNA. The targeting was lower than expected, possibly due to using universal blocking oligos.

DETAILED DESCRIPTION OF THE INVENTION

Introduction

[0043] The inventors have discovered a new and efficient way to determine the composition and proportion of different cell types in a sample using DNA methylation. As discussed further below, the methods described herein can be used to classify a population of DNA reads to their cell of origin. Analyzing bisulfite treated DNA sequenced reads, each with multiple adjacent CpG sites, and comparing to a reference set, the methods can trace back the cell type from which the DNA sample was extracted. This is achieved, in part, by selecting loci having stable methylation status for each cell types of interest. Bisulfite treatment converts cytosine residues to uracil, but leaves 5-methylcytosine residues unaffected. In other words, in a DNA sequence that was treated with bisulfite it is possible to differentiate between methylated and unmethylated CpGs.

[0044] Stability of methylation at a locus is defined by the concordance between the methylation status of the CpG sites in the locus, concordance between methylation status of the same CpG sites across reads from the sample, and concordance between different samples from different individuals. The stability score is highly concordant with the notion of epipolymorphism (Landan *et al.*, *Nature Genetics* 44(11):1207-14 (2012). The locus will be considered stable if the methylation status of all of CpG sites of the locus is high (close to 100% methylation) or low (close to 0% methylation). Thresholds can be set as discussed below depending on how close to 0% or 100% is needed or desired to formulate a set of useful loci.

[0045] By identifying loci with stable methylation statuses that differ from one cell type to another the inventors have discovered a way to select a subset of total available loci for targeted sequencing , thereby avoiding the need to sequence the whole genome. By narrowing the number of loci sequenced compared to whole genome sequencing, one can sequence with considerably more depth, thereby allowing for accurate quantification of loci and their methylation state. This in turn can be used to determine the proportion of different cell types in a sample by application of linear algebra. This and other aspects are described herein.

Methods of identifying methylation loci for distinguishing cell types

[0046] Methods of determining proportions of cell types in a sample as described herein involve bisulfite deep sequencing or other methods that are capable of determining the methylation status of DNA. As an initial step, one can be provided or can identify loci whose methylation status can be used to determine cell type identity. Accordingly, methods are provided for identifying loci whose methylation status can be used to distinguish cell types.

[0047] To identify useful loci, quantitative nucleotide sequencing data for a plurality of different cell types can be generated, where the data includes designations whether cytosines are methylated. A variety of methods for sequencing DNA that also provides methylation status is available and can be used. In some embodiments, bisulfite sequencing is used. Exemplary methods of bisulfite sequencing include but are not limited to those described in Li, *et al.*, *Methods Mol Biol.* 791: 11–21 (2011). In other embodiments, SMRT sequencing (e.g., Flusberg, *et al.*, *Nature Methods* 7, 461–465 (1 June 2010)) or other sequencing methods that detect methylation status is used. "Quantitative nucleotide sequencing" refers to highly redundant sequencing of a nucleic acid sequence, for example such that the original number of copies of a sequence in a sample can be determined or estimated. Such techniques are often referred to as "deep sequencing" methods. Deep sequencing can be used to quantify the number of copies of a particular sequence in a sample and then also be used to determine the relative abundance of different sequences in a sample. The redundancy (i.e., depth) of the sequencing can be determined by the length of the sequence to be determined (X), the number of sequencing reads (N), and the average read length (L). The redundancy is then NxL/X. The sequencing depth can be, or be at least about 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55 ,56, 57, 58, 59, 60, 70, 80, 90, 100,

110, 120, 130, 150, 200, 300, 500, 500, 700, 1000, 2000, 3000, 4000, 5000 or more. *See, e.g.*, Mirebrahim, Hamid *et al.*, *Bioinformatics* 31 (12): i9–i16 (2015).

[0048] One can perform quantitative nucleotide sequencing (with methylation detection) on a plurality of different pure cell types, e.g., from pure cell cultures. A cell type can be for example a classification used to distinguish between morphologically or phenotypically distinct cell forms within a species. "Cell type" as used herein can encompass general cell differences (e.g., T-cell vs. B-cell), or more specific differences (e.g., CD4+ T-cells vs. CD8+ Tcells, or for example, CD4+ memory T-cells and CD4+ effector T-cells). The number and identity of the different cell types assayed to identify loci will be determined based on need and interest. For example, in some embodiments, at least 2, 3, 4, 5, 6, 7, 8, 9, 10, or more (e.g., 2-20, 2-50, etc.) different cell types are quantitatively sequenced. In some embodiments, at least 1, 2, 3, 4, 5, 6, 7, 8, 9, or 10 cell types are different immune cell types or are other cell types as described elsewhere herein.

[0049] Quantitative nucleotide sequencing of the cell types can be whole-genome sequencing or otherwise targeted or random. The sequencing should present enough different sequencing reads to allow for identification of desired loci. Desired loci are those that have the following features:

[0050] 1) Having at least two (e.g., at least 3, 4, or more) CpG sequences with the read. In non-limiting embodiments, the read can be, for example, at least 50, 100, 150, 200, 500, or more nucleotides, e.g., 40-1000 nucleotides.

[0051] 2) All of the CpG sequences in a particular locus are either fully (per a pre-determined threshold) methylated or are fully (per a pre-determined threshold) unmethylated. That is, each of the CpGs in the locus are methylated or each are unmethylated for any given cell type under consideration – no cell types show intermediate methylation or variable methylation between isolates of a particular cell type.

[0052] 3) Methylation at a desired locus must be stable for all cell types of interest. "Stable" as used herein means that for every cell type assayed, the resulting methylation at the locus in question is always the same or at least above a certain threshold. In some embodiments, the threshold is set as less than 0.05, 0.02, 0.01, 0.005, or 0.01, calculated as the difference of the methylation in each cell type from fully methylated or fully unmethylated. In some embodiments, at least 1, 2, 3, 4, 5, 6, 7, 8, or more unique reference cells of particular cell type are used to establish stability of methylation locus for a particular

cell type. If the stability of methylation at a certain locus is below the threshold, the locus should be discarded.

[0053] 4) Methylation status at the locus for at least one cell type must be different from the methylation status of at least one other cell type of interest. For example, if a locus is unmethylated in cell type A and is methylated in cell type B, then this criterion is met. In some embodiments, the methylation status at the locus for at least one cell type is different from the methylation status of all of the remaining cell types of interest. One can select a threshold for the required methylation difference between cell type pairs. For example, in some embodiments, the threshold is at least a 80%, 85%, 90%, or 95% difference in methylation between two cell types. One can additionally or alternatively also select a stability threshold. For example, stability can calculated by the difference of the methylation in each cell type from full or unmethylation, with a threshold of for example, < 0.01 or <0.005. In some embodiments, the differences can be squared or otherwise modified to increase the stability stringency. One can lower these thresholds to allow more genetic loci to be included if additional loci are desired.

[0054] In some embodiments, at least a certain number of loci distinguishing one cell type from another are identified for each cell pair. For example, in some embodiments, for each pair of cell types one can identify at least X number of genetic loci that distinguish one from the other (one has high methylation and the other low methylation), where in some embodiments, X= at least 10, 20, 30, 40, 50, 75, 100 or more, e.g., 10-100, 25-75, etc. In all the rest of the cell types the selected loci will have a methylation that is also high (i.e., fully methylated) or low (i.e., not methylated), that is their methylation is stable, not changing between isolates of the same cell type). The same genetic loci, in some embodiments, can be identified in more than one (e.g., 2, 3, 4, 5, or more) such pairs, and therefore the number of total genetic loci can be less than (# of pairs)*X. Optimally, one can select loci that distinguish multiple pairs of cell types, thereby reducing the total number of loci needed to accurately quantify different cell types in a mixture.

[0055] By following the above-described method, a set of reference genetic loci can be determined. For each cell type of interest, a "signature" can thus be compiled that comprises the methylation status of the cell type at each reference genetic locus. These methylation status signatures can be used in distinguishing different cell types or quantifying the relative amounts of different cell types in a mixture, as discussed further below. In some

embodiments, a reference vector is generated to represent each signature that distinguishes one cell type from at least one other cell type. The total number of genetic loci can vary in a signature. In some embodiments, each signature can have less than 500 loci, e.g., 25-200 loci, e.g., 25-150 loci, e.g., 50-100 loci. The total number of loci across all signatures will depend on the number of signatures developed, which in turn will depend on the number of cell types to be distinguished. In some embodiments, the number of genetic loci will be between 500-10,000, e.g., 500-5,000 or 700-2,500.

Methods of using methylation loci to determine proportions of cell types in a sample

[0056] Also provided are methods of using a signature (a set of genetic loci identified for example as described above or otherwise generated) to determine the proportion and identity of different cell types in a sample.

[0057] The methods involve providing DNA extracted from a biological sample, wherein the sample has or is suspected of having one or more cell type and the genomic DNA comprises genomic DNA from the one or more cell type. Genomic DNA can be provided to the user of the method or can be obtained from an individual by the user. In some embodiments, samples can be freshly obtained or can be from frozen or formalin-fixed and paraffin-embedded (FFPE). In any case, the genomic DNA can be obtained using routine techniques in the field of recombinant genetics. Basic texts disclosing the general methods of use in this invention include Sambrook and Russell, *Molecular Cloning, A Laboratory Manual* (3rd ed. 2001); Kriegler, *Gene Transfer and Expression: A Laboratory Manual* (1990); and *Current Protocols in Molecular Biology* (Ausubel et al., eds., 1994-1999).

[0058] The biological sample can be any sample. Samples can be from, for example, an animal or plant. In some embodiments, the sample is from a mammal, e.g., a human. In some embodiments, the sample is all or part of a biopsy. For example, in some embodiments, the biopsy is from an individual who has a tumor and the biopsy is all or part of the tumor. In some embodiments, the sample is a blood sample. In some embodiments, the sample is from an individual having or thought to have an inflammatory disorder.

[0059] Once genomic DNA is obtained from the sample, quantitative nucleotide sequencing (e.g., deep sequencing) of the DNA is performed at a set of genetic loci whose methylation status has previously been determined to distinguish between at least two different cell types. The nucleotide sequencing will allow for determination of methylation

status of the loci. Methods for determining methylation status are described above, and for example can include bisulfite sequencing or next-generation sequencing methods (e.g., SMRT sequencing) that detect methylation as well as nucleotide identity.

[0060] Bisulfite sequencing involves using bisulfite reagents to treat DNA to determine its pattern of methylation. The treatment of DNA with bisulfite converts cytosine residues to uracil but leaves 5-methylcytosine residues unaffected. Bisulfite treatment introduces specific changes in the DNA sequence that reflects the methylation status of the individual cytosine residues. Various analyses can be performed on the altered sequence to retrieve this information. Methods of targeted bisulfite sequencing that can be used in the methods described herein include, but are not limited to those described in e.g., Masser, *et al.*, *J Vis Exp.* 96: (2015 Feb 24); Li, *et al.*, *Nucl. Acids Res.* (2015); Komori *et al.*, *Genome Research* 21(10):1738-1745 (2011).

[0061] The number of genetic loci sequenced will depend in part on the number of cell types to be determined. In some embodiments, there are at least 10, 20, 30, 40, 50, 75, 100 or more loci to distinguish any two cell types and there are at least 2, 3, 4, 5, 6, 7, 8, 9, 10, 15, 20 25 or more different cell types to distinguish. An advantage of the described methods is that one can avoid whole genome methods of sequencing and thereby allow for more sequencing depth given the same sequencing capacity. Allowing more sequencing depth given the same sequencing capacity (for example, from dozens of reads to thousands of reads) generates higher accuracy in distinguishing cell types, and identifying cell types with low abundance (improving sensitivity of the assay).

[0062] Accordingly, each of the determined reads for loci can be aligned with the methylation status signatures. An exemplary algorithm suitable for determining sequence alignments of bisulfite-treated reads is the Bismark algorithm, which is described in Krueder, *et al.*, *Bioinformatics* 27(11): 1571–1572 (2011), for example. One can discard sequencing reads that did not encompass all of the CpG sequences at the locus in question. Methylation status of each locus is then determined.

[0063] The sequencing described above will result in a set of determined sequencing reads having a determined methylation status at each relevant base pair (e.g., in mammals, whether the cytosines in CpG subsequences are methylated, or not). Raw output reads (corresponding to the genetic loci) from the sequencing can be scored as "methylated" or "not methylated". In some embodiments, the average methylation of potential sites (e.g., cytosines in CpG

subsequences) within a locus is determined and that score is assigned to that read. For example, if a locus has three potential methylation sites and two of them are methylated, the locus read could be scored as 0.66. In other embodiments, each read methylation status can be "rounded" up or down depending on whether the average methylation is above or below 0.5. Thus, in the example above, the read could be rounded to "1" (indicating "methylated") because 0.66 is greater than 0.5. Accordingly, a set of determined sequencing reads can be provided where each genetic locus in the set has a designated (i.e., determined) methylation status score, which is either a fraction indicating the actual fraction of potential (CG) sites that are methylated or a "1" or "0" (rounded values).

[0064] The set of determined sequencing reads having a determined methylation status can then be compiled to generate a "sample signature" that comprises the methylation status of the sample at each reference genetic locus. This sample signature can be compared to a reference set of different cell-type methylation status signatures, and the proportion of occurrences of cell-type signatures that correspond to the observed or measured sample signature can be determined. These occurrences of different cell-type signatures in the sample can then be used to determine the proportion and identity of different cell types in the sample.

[0065] Further, the methylation status of the methylation eligible sites (e.g., in mammalian samples, CpG sites) in each sequence read is determined. As discussed above, the actual fraction of methylation out of the total number of eligible sites at the loci can be used or in some embodiments, the fraction of methylated sites can be rounded up to "1" (e.g., if a majority of the eligible sites are methylated) or down to "0". Thus, each read will have a methylation score assigned to it.

[0066] The number of reads from the sample that align with each signature can be determined. The identity of the cell types in the sample can be determined using the signatures as the signatures distinguish between cell types based on methylation status. The proportion (e.g. percentage of total cells) of the cell types in the sample can be determined based on the number of reads corresponding to each signature.

[0067] In some embodiments, linear algebra can be applied to deconvolute the proportion (e.g., percent amount) of each cell type in the sample. For example, in some embodiments, an array of linear equations can be generated in the format $Ax+\varepsilon=b$, where:

A is a k × n matrix where k is the number of loci and n is the number of cell types, wherein each value in the matrix represents the methylation score (a fraction or rounded to "1" or "0") of a particular locus within a particular cell type. Thus A can be a matrix wherein each of the n columns represents the cell-type methylation status signature for a particular cell-type across all loci, and wherein each of the k rows represents the loci methylation status for particular loci across all cell types;

x is a vector representing the proportion of each of the n cell types in the sample;

b is a vector representing the methylation measurements that correspond with (i.e., align with) the signatures that distinguish between at least two cell types. Thus b can be a vector representing the sample methylation status signature across all loci; and

ε is a correction value.

Thus for example, this equation can be displayed as follows, with exemplary values inserted for A:

$$\underset{A}{\begin{pmatrix} 1 & 0 & 1 & & 1 \\ 0 & 1 & 1 & \cdots & 0 \\ 1 & 1 & 0 & & 0 \\ & \vdots & & \ddots & \vdots \\ 1 & 0 & 0 & \cdots & 1 \end{pmatrix}} \underset{x}{\begin{pmatrix} x_1 \\ x_2 \\ x_3 \\ \vdots \\ x_n \end{pmatrix}} + \epsilon = \underset{b}{\begin{pmatrix} b_1 \\ b_2 \\ b_3 \\ \vdots \\ b_k \end{pmatrix}}$$

[0068] The system of k linear equations can then be solved for the n variables in vector x, thereby determining the proportion of cell types in the sample. For example, linear least squares, support vector regression, or other methods can be used to calculate the proportions.

[0069] As discussed above, the cell types identified and quantified in the sample will depend on what cell types are identified by the signatures used. In some embodiments, one or more of the signatures distinguishes between mammalian (e.g., human) cell types. In some embodiments, at least two (e.g., at least 3, 4, 5, 6, 7, 8, 9, 10, 15, 20, or more) signatures distinguish between different immune cell types. In some embodiments, the signatures distinguish at least one of the following cell types from a second cell type (optionally the second cell type can also be selected from the following list): Hematopoietic stem cells, Neutrophils, CD4+ Naive T-cell, CD8+ Naïve T-cell, CD4+ Central Memory T-cell, CD8+ Central Memory T-cell, CD4+ Effector Memory T-cell, CD8+ Effector Memory T-cell, Regulatory T-cells, natural killer cells, Naïve B-cells, Memory B-cells, Plasma cells,

Precursor B-cells, Monocytes, Dendritic cells, Macrophages M0, Macrophages M1, Macrophages M2, Eosinophils, or erythroblasts, or basophils. In some embodiments, the cell types comprise one or more (e.g., two or more) T helper cell types, for example, one or more of Th1, Th2 or Th17 cells. In some embodiments, the tissue comprises stroma cells and at least two (e.g., 2, 3, 4, 5, 6, 7, 8, 9, 10 or more) cell types are selected from endothelial cells, fibroblasts, pericytes, smooth muscle cells, skeletal muscle cells, mast cells, adipocytes, mesenchymal stem cells, and epithelial cells. In some embodiments, at least two (e.g., 2, 3, 4, 5, 6, 7, 8, 9, 10 or more) cell types are selected from melanocytes, hepatocytes, astrocytes, mesangial cells, and keratinocytes.

[0070] In some aspects, one or more of the above-described steps can be performed by a computer system. For example, in some embodiments, sequence reads of the various loci can be received by the computer system. In some embodiments, the sequence reads can be aligned in the computer system with signatures that distinguish between two or more cell types. In some embodiments, the computer system will determine the number or proportion of reads that align to different signature sequences. In some embodiments, the identity of the sequence reads will be used by the computer system to provide the identity and proportion of cell type sin the sample. This can be achieved, for example, by the computer system applying linear algebra, for example as discussed above or elsewhere herein.

[0071] The above described methods can be used, for example, to relate proportions of cell types to phenotypes. For example, CD8+ is associated with response to immune checkpoint blockade therapy. In some embodiments, the methods allow for a deeper analysis of the response of an individual's tissue to therapy (including but not limited to immunotherapy).

Computer systems

[0072] FIG. 5 shows a block diagram of an example computer system 700 usable with system and methods according to embodiments of the present invention. The computer system 700 can be used to run the program code for various method claims according to embodiments of the present invention.

[0073] Any of the computer systems mentioned herein may utilize any suitable number of subsystems. Examples of such subsystems are shown in FIG. 5 in computer apparatus 700. In some embodiments, a computer system includes a single computer apparatus, where the subsystems can be the components of the computer apparatus. In other embodiments, a

computer system can include multiple computer apparatuses, each being a subsystem, with internal components.

[0074] The subsystems shown in FIG. 5 are interconnected via a system bus 775. Additional subsystems such as a printer 774, keyboard 778, fixed disk 779, monitor 776, which is coupled to display adapter 782, and others are shown. Peripherals and input/output (I/O) devices, which couple to I/O controller 771, can be connected to the computer system by any number of means known in the art, such as serial port 777. For example, serial port 777 or external interface 781 can be used to connect computer system 700 to a wide area network such as the Internet, a mouse input device, or a scanner. The interconnection via system bus 775 allows the central processor 773 to communicate with each subsystem and to control the execution of instructions from system memory 772 or the fixed disk 779, as well as the exchange of information between subsystems. The system memory 772 and/or the fixed disk 779 may embody a computer readable medium. Any of the values mentioned herein can be output from one component to another component and can be output to the user.

[0075] A computer system can include a plurality of the same components or subsystems, e.g., connected together by external interface 781 or by an internal interface. In some embodiments, computer systems, subsystem, or apparatuses can communicate over a network. In such instances, one computer can be considered a client and another computer a server, where each can be part of a same computer system. A client and a server can each include multiple systems, subsystems, or components.

[0076] It should be understood that any of the embodiments of the present invention can be implemented in the form of control logic using hardware and/or using computer software in a modular or integrated manner. Based on the disclosure and teachings provided herein, a person of ordinary skill in the art will know and appreciate other ways and/or methods to implement embodiments of the present invention using hardware and a combination of hardware and software.

[0077] Any of the software components or functions described in this application may be implemented as software code to be executed by a processor using any suitable computer language such as, for example, Java, C++ or Perl using, for example, conventional or object-oriented techniques. The software code may be stored as a series of instructions or commands on a computer readable medium for storage and/or transmission, suitable media

include random access memory (RAM), a read only memory (ROM), a magnetic medium such as a hard-drive or a floppy disk, or an optical medium such as a compact disk (CD) or DVD (digital versatile disk), flash memory, and the like. The computer readable medium may be any combination of such storage or transmission devices.

[0078] Such programs may also be encoded and transmitted using carrier signals adapted for transmission via wired, optical, and/or wireless networks conforming to a variety of protocols, including the Internet. As such, a computer readable medium according to an embodiment of the present invention may be created using a data signal encoded with such programs. Computer readable media encoded with the program code may be packaged with a compatible device or provided separately from other devices (e.g., via Internet download). Any such computer readable medium may reside on or within a single computer program product (e.g. a hard drive, a CD, or an entire computer system), and may be present on or within different computer program products within a system or network. A computer system may include a monitor, printer, or other suitable display for providing any of the results mentioned herein to a user.

[0079] Any of the methods described herein may be totally or partially performed with a computer system including a processor, which can be configured to perform the steps. Thus, embodiments can be directed to computer systems configured to perform the steps of any of the methods described herein, potentially with different components performing a respective steps or a respective group of steps. Although presented as numbered steps, steps of methods herein can be performed at a same time or in a different order. Additionally, portions of these steps may be used with portions of other steps from other methods. Also, all or portions of a step may be optional. Additionally, any of the steps of any of the methods can be performed with modules, circuits, or other means for performing these steps.

EXAMPLES

[0080] The following examples are provided in order to better enable one of ordinary skill in the art to make and use the disclosed methods, and are not intended to limit the scope of the invention in any way.

Example 1. In silico analysis using >2300 genetic loci

[0081] Using publicly available whole genome bisulfite sequencing (WGBS) data from the Blueprint Epigenomics project, DNA methylation profiles of 21 types of immune cell subsets

(list in Table 1) were assembled. Based on these profiles genetic loci were determined that have at least three CpG sequences within a sequence read (in this example, within 200 bp) and for which all CpGs in the locus were either stably methylated or were unmethylated. For each of the 21 cell types we identified 50 genetic loci that distinguish one cell type from at least one other of the other 20 cell types, i.e., one has high methylation and the other low methylation. Genetic loci that were chosen were short regions that can be sequenced fully in one read, preferably with at least 3 CpGs. To be selected for further study, the methylation levels of all CpGs in the genetic locus must distinguish one cell type from another, and be stable, methylated or unmethylated, in all other cell types. In many cases, one genetic loci can distinguish between one cell type and several others. For example, a first cell type will be stably methylated whereas at least two (e.g., a second and a third cell type) other cell types will be stably unmethylated, thereby allowing one to distinguish the first cell type from the second cell type based on methylation at that genetic locus.

[0082] Stability for a CpG site in this analysis was defined using the following formula:

$$Stability(CpG\ site) = \frac{\sum_{i \in Cell\ types} \frac{1}{2} - \left|\frac{1}{2} - meth\right|^2}{\#\ of\ cell\ types}$$

Full methylation or unmethylation in all cell types will result in Stability=0.

[0083] Selection of genetic loci began by defining thresholds for the required methylation difference between cell types (starting with 95% difference) and stability threshold (starting with < 0.01), calculated as the difference of the determined methylation from fully methylated or fully unmethylated. We then gradually lowered these thresholds to allow more genetic loci to be included until we had the target number of loci per cell type pairs. In this analysis, we included 50 genetic loci for each pair of cell types.

[0084] As noted above, one genetic loci can distinguish between one cell type and several others. Therefore, the number of chosen genetic loci in this analysis is not 50 times all pairs (10,500 in this case), but only 2,377 genetic loci.

[0085] The average length of these genetic loci was 57.0 ± 27.2bp and contains 4.4 ± 1.7 CpGs. 85.1% of the genetic loci have methylation level > 80% (78.0% with methylation > 90%), and 13.3% have a methylation level<20% (5.3% with methylation < 10%). Without intending to limit the scope of the present disclosure, we assume that most of

this divergence from full methylation or unmethylation is due to noise and non-perfect purification of the cell types. Thus, in the reference set, A, which is a matrix of 2,377 rows for each genetic locus and 21 columns for each cell types, the cell A(i,j) is 1 if genetic loci i is called as "methylated" in cell type j, and 0 otherwise.

[0086] Using the methylation levels of each of the CpGs in a genetic locus (not the rounded 0 or 1 as in the reference set, but the exact methylation level – a continuous number between 0 and 1) we create 1000 in-silico (computationally-generated) reads for each of the cell types based on the methylation level of each CpG in the genetic loci. This procedure simulates the methylation reads expected by sequencing the genetic loci in each of the cell types. For example, for each cell type we knew that methylation was a certain level (e.g., 90%, 85%, 95%). Thus, for each cell type we created a matrix size of 1000, with 0 or 1 in the cells. The average of the columns corresponds with the methylation of the particular cell type (90%, 85%, 95% in the example of three provided above). We ran this procedure for each of the cell types.

[0087] We chose a random abundance of each of the cell types. Together the sum of all the proportions was 100%. Based on the proportion of each cell type we randomly chose reads from the in-silico cell types-reads pool – for example, if cell type X has an abundance of 10%, we randomly chose 100 reads. We thus generated 1000 in-silico reads for each of the genetic loci according to the random abundance of cell types. To add more stochastic noise to the system, we randomly removed up to half of the reads in each genetic loci.

[0088] Each read is called "0" or "1" based on the majority of methylation sites. Thus, the output of this procedure was a vector, b, of 2,377 cells with a continuous number between 0 and 1 that represents the percentage of methylated reads in each genetic loci.

[0089] Thus we generated a set of multiple linear equations in the format of $Ax=b$.

$$\begin{matrix} A & & & & & x & = & b \end{matrix}$$

$$\begin{pmatrix} 1 & 0 & 1 & & 1 \\ 0 & 1 & 1 & \cdots & 0 \\ 1 & 1 & 0 & & 0 \\ & \vdots & & \ddots & \vdots \\ 1 & 0 & 0 & \cdots & 1 \end{pmatrix} \begin{pmatrix} x_1 \\ x_2 \\ x_3 \\ \vdots \\ x_n \end{pmatrix} + \epsilon = \begin{pmatrix} b_1 \\ b_2 \\ b_3 \\ \vdots \\ b_k \end{pmatrix}$$

$$A\ (k \times n) - epistate\ matrix$$

$$b\ (k \times 1) - \ methylation\ measurments$$

$$x\ (n \times 1) - \ proportions$$

$$k - \#\ of\ loci, n - \#\ of\ cell\ types$$

[0090] Using constrained linear least square analysis we determined x – the hidden proportions that compose vector b.

[0091] Results: Pearson correlation – 0.9255, RMSE: 0.0098

Table 1

Cell types	Hidden proportions	Predicted proportions	Difference
Hematopoietic stem cells	0.0812	0.0894	0.0082
Neutrophils	0.085	0.0832	0.0018
CD4+ Naive T-cell	0.0891	0.0826	0.0065
CD8+ Naïve T-cell	0.0287	0.0378	0.0091
CD4+ Central Memory T-cell	0.0898	0.0601	0.0297
CD8+ Central Memory T-cell	0.03	0.034	0.004
CD4+ Effector Memory T-cell	0.0057	0.0187	0.013
CD8+ Effector Memory T-cell	0.0014	0.0203	0.0189
Regulatory T-cells	0.0572	0.0502	0.007
NK cells	0.0494	0.0486	0.0008
Naïve B-cells	0.0446	0.049	0.0044
Memory B-cells	0.0497	0.0496	0.0001
Plasma cells	0.0298	0.0246	0.0052
Precursor B-cells	0.036	0.0405	0.0045
Monocytes	0.0423	0.0444	0.0021
Dendritic cells	0.064	0.0523	0.0117
Macrophages M0	0.049	0.054	0.005
Macrophages M1	0.0382	0.0293	0.0089
Macrophages M2	0.0642	0.0633	0.0009
Eosinophils	0.0452	0.044	0.0012
Erythroblasts	0.0197	0.0241	0.0044

Running 100 different proportions:

Average error: 0.0103 (1% error rate)

Root mean square error between x and the hidden proportions: 0.0133

Pearson correlation between x and the hidden proportions: 0.9072

[0092] We also ran this analysis by choosing 3 cell types to constitute 50% of the mixture, and all the rest to constitute the other half. The same error rates were found.

[0093] It should be pointed out that in such an analysis the 'rounding' of the methylation calls in the reference set to 0 and 1 decreases the accuracy of the results. Using the 'exact' methylation from reads can improve the results, however, this was not done in the computational example above because doing so would have removed the bias that is created by the circular use of data to create both the reference set and the computationally-generated reads from the same source.

Example 2. Analysis of peripheral blood mononuclear cells

[0094] We downloaded whole genome bisulfite sequencing data from a peripheral blood mononuclear cells (PBMC) sample (LI et al. *PLoS Bio* 2010). We performed the exact method explained above, but here we used a subset of the reference set described above, with 401 genetic loci that only distinguish between different major subsets of PBMC. Thus, genetic loci that are identical between these 6 cell types were omitted. We also removed genetic loci that distinguish between different types of CD4+, CD8+ and B-cells. The results as well as the expected proportions are shown below in Table 2.

Table 2

	PBMC	Expected proportions
CD4+ T-cells	0.1583	4%-20%
CD8+ T-cells	0.0671	2%-11%
NK cells	0.0733	1%-6%
Neutrophils	0.5811	30%-80%
Monocytes	0.0969	2%-12%
B-cells	0.0232	1%-7%

Example 3. Analysis of CD4+ T-cells from different individuals

[0095] We downloaded whole genome bisulfite sequencing data from CD4+ T-cells samples from two individuals – a newborn and a centenarian (Heyn *et al.* Proc. Natl Acad. Sci USA 109(26) (2012)). A reduced reference set of 306 genetic loci that distinguish

between different types of CD4+ T-cells were used (only genetic loci that distinguish between CD4+ cell types). Our analysis shows that the CD4+ composition significantly differed between newborns and centenarians. The majority of CD4+ cells in newborns are naïve T-cells, while in centenarians most of the CD4+ T-cells are memory and regulatory cells, as expected.

Table 3

	0yr CD4+	100yr CD4+
CD4+ Naive T-cell	0.9708	0.1737
CD4+ Central Memory T-cell	0	0.2536
CD4+ Effector Memory T-cell	0.0006	0.4722
Regulatory T-cells	0.0286	0.1005

Example 4. Analysis of B-cell sample

[0096] We downloaded whole genome bisulfite sequencing data from a normal 4yr healthy B-cells sample (Heyn et al. *Epigenetics* 7(6):542-50 (2012)). Using the full reference set described above, we predicted 65.45% to be naïve B-cells and 34.55% to be memory B-cells. No other cells were found in the mixture. This result is again as expected.

Example 5. Analysis of CD14+ monocytes

[0097] We downloaded whole genome bisulfite sequencing data for a CD14+ monocytes sample from the Roadmap Epigenomics project (Kundaje et al. *Nature* 518:317–330 (2015)). The method predicted that 100% of the cells are monocytes.

[0098] All the predictions presented in Example 1 through Example 5 are based on whole genome bisulfite sequencing, where the read depth is low (~10x). We also do not have access to the actual reads, but only to the processed whole genome bisulfite sequencing data which only contains the methylation level of the CpGs. Therefore, the methylation level of the genetic loci was inferred from the percent of methylation of each individual CpG site (combined together in each genetic loci), instead of from the actual reads which would have allowed much higher sensitivity to distinguish between cell types. We anticipate that targeted bisulfite sequencing will allow for increased read depth to 1000x or more and by analyzing the reads directly, the accuracy and sensitivity of these analyses will be significantly

improved, and will allow estimating the proportions of cell types that are at very low abundance.

[0099] The table of FIG. 6 shows the genomic coordinates for the 2,377 genetic loci (in Human Genome version 19 (hg19) coordinates) described in the Example 1 - Example 5. Because of size constraints, the values in the table below can wrap around to the location directly below. For example, the starting location for the first entry in chromosome 1 is at position 138063 and the "HSC" methylation score for that position is 0.97383. The 4th column is the number of CpGs in each genetic loci. In the analyses here each cell is rounded to 0 or 1 (>50% is 1) and lines with NA values are omitted. In some embodiments, the methods disclosed herein use 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, or more than 100 of the genetic loci listed in FIG. 6. It should be noted that the methods described herein are not limited to the loci listed in FIG. 6 and are only provided by way of example.

Example 6. In silico analysis using >9200 genetic loci

[0100] The cellular composition of tumors is now recognized as an essential phenotype, with implications to diagnostic, progression and therapy efficacy. A tool for accurate profiling of the tumor microenvironment is lacking, as single-cell methods and computational approaches are not applicable or suffer from low accuracy. Here we present EpiSort, a novel strategy based on targeted bisulfite sequencing, which allows the accurate enumeration of 23 cell types and may be applicable to cancer studies.

[0101] Recent years have seen a tremendous advancement in technologies that enable the investigation of cellular heterogeneity and composition of mixed tissues. While newer methods have been developed for single-cell profiling after tissue dissection, innovative computational deconvolution techniques have also been created that enable digital dissection of bulk tissues. The need for such technologies is now indisputable, and a growing body of evidence shows the importance of the cellular heterogeneity in diagnosis, prognosis, treatment efficacy, and for the development of novel treatment strategies in an array of common and complex diseases. (Klemm, F. & Joyce, J. A., *Trends Cell Biol.*, 25, 198–213 (2015)) In the study of cancer, more and more evidence shows that the complex milieu of the tumor microenvironment is playing a major role in both promoting and inhibiting the tumor's growth, to invasion and to metastasize. (Hanahan, D. & Coussens, L. M., *Cancer Cell*, 21, 309–322 (2012)) It is thus clear that accurate portrayal of the cellular composition of the

tumor is an important phenotype crucial for improving existing treatments, for the discovery of predictive biomarkers, and for the development of novel therapeutic strategies.

[0102] While cellular composition can be profiled using single-cell technologies such as flow cytometry, it is a far more challenging task in solid tissues. Dissociation of solid tissues leads to destruction of the niche environment, thereby affecting cellular state and integrity. It is thus unclear if the relative proportion of cell types is maintained following the dissociation step. Another disadvantage of single-cell methods is the need to perform the analysis on fresh tissues, which requires a supporting operational system and may not be suitable for use in clinical settings. The emerging use of single-cell RNA sequencing may offer novel insights regarding internal cellular states, but for profiling the cellular composition it does not provide a suitable solution.

[0103] On the other hand, computational deconvolution techniques employ genomic profiling of the bulk tissue, and thus, in theory, can more reliably detect the actual, non-harmed, tissue composition. (Newman, A. M. & Alizadeh, A. A., *Curr. Opin. Immunol.*, 41, 77–84 (2016)) However, the accuracy of these methods is questionable, specifically in tumors. Gene expression profiles are highly variable, and the large dynamic range is highly susceptible to batch effects and cell state changes that make it an impossible task to accurately predict the abundance of cell types.

[0104] Another genomic profiling measurement used for deconvolution is DNA methylation. (Accomando, W. P. et al., *Genome Biol.*, 15, R50 (2014)) DNA methylation, like gene expression, is cell type specific, (Baron, U. et al., *Epigenetics*, 1, 55–60 (2006)) however its scales are fractions and its association with the mixture's composition is linear, and not continuous as in gene expression, making it a more potent measurement for portraying the tissue composition. A number of methods have employed DNA methylation arrays to predict the composition of handful of immune subsets. (Accomando, W. P. et al., *Genome Biol.*, 15, R50 (2014); Houseman, E. A. et al., *BMC Bioinformatics*, 13, 86 (2012); Heiss, J. A. et al., *Epigenomics*, 9, 13–20 (2017)) However, only major immune subsets can be assessed since the limited breadth of methylation arrays is incapable of distinguishing closely related cell types. In addition, the accuracy of these methods is yet insufficient, predominantly due to the inability of individual CpGs to distinguish between stochastic and real bimodal epipolymorphism (FIG. 1A). (Landan, G. et al., *Nat. Genet.*, 44, 1207–14 (2012)) Accurate bisection of genomic locus to epistates is possible with bisulfite

sequencing, and could therefore allow for reliable deconvolution of mixtures. Accordingly, whole genome bisulfite sequencing (WGBS) has been used for purity estimations of tumors,(Zheng, X. et al., *Genome Biol.*, 15, 419 (2014)) however, it cannot be used for identifying cell types with low abundance due to the low read depth and its high cost.

[0105] Here we present *EpiSort*, a novel method to accurately enumerate 23 cell types in mixed tissues, using massive deep bisulfite sequencing of targeted loci specifically chosen to discriminate between cell types (FIG. 1B). *EpiSort* targets cell types specific loci with multiple CpGs that allow a clear distinction of epistates. To identify these loci, we collected 60 WGBS samples, corresponding to 21 immune cell types from the Blueprint epignome project (Blueprint Epigenome - Welcome to the Blueprint project at http://www.blueprint-epigenome.eu/) and two WGBS representing fibroblasts (IMR90) (Lister, R. et al., *Nature*, 462, 315–322 (2009)) and endothelial cells (HMEC) (Hon, G. C. et al., *Genome Res.*, 22, 246–258 (2012)), totaling 23 cell types (Table 4). Using the methylation fraction per CpG, we then scanned the genome (in Human Genome version 38 (GRCh38) coordinates) to detect informative loci that will allow discriminating between cell types. Our search yielded 9,291 uniform differentially methylated regions (UDMRs) (Table 5). We first tested our UDMRs capability to predict cell types composition in simulated *in silico* mixtures. We performed simulations by generating a pool of *in silico* bisulfite reads based on the underlying mixture of the cell types, and randomly choosing 200 reads from the pool per region. Our analyses showed highly accurate inferences of underlying abundances, differentiating closely related cell types, and the capacity to identify extremely low abundant cell types (FIG. 1C).

[0106] In some embodiments, the methods disclosed herein use 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, or more than 100 of the genetic loci listed in Table 5. It should be noted that the methods described herein are not limited to the loci listed in Table 5 and are only provided by way of example.

Table 4

Cell types	# of WGBS samples
CD4+ T-cells	3
CD4+ Tcm	3
CD4+ Tcm	3
CD4+ Tem	1
CD8+ T-cells	4
CD8+ Tcm	1
cDC	2
Eosinophils	1
Erytrocytes	2
Macrophages M0	7
Macrophages M1	6
Macrophages M2	5
Megakaryocytes	1
Memory B-cells	1
Monocytes	6
Naïve B-cells	5
Neutrophils	6
NK cells	2
Plasma cells	2
Precursor B-cells	1
Tregs	1
Fibroblasts (IMR90)	1
Endothelia cells (HMEC)	1

Table 5

c – CHR, s – START, t – END, # - num. of CpGs in the region.
A - CD4+ T-cells; B- CD4+ Tcm; C - CD4+ Tem; D - CD8+ T-cells; E - CD8+ Tcm; F - CD8+ Tem; G - Eosinophils; H – Erytrocytes; I - Macrophages M0; J - Macrophages M1; K - Macrophages M2; L – Megakaryocytes; M - Memory B-cells; N – Monocytes; O - NK cells; P - Naïve B-cells; Q – Neutrophils; R - Plasma cells; S - Precursor B-cells; T – Tregs; U – cDC; V - Non-immune

c	s	t	#	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
1	138063	138146	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
1	609797	609803	2	1	-	1	1	1	-	-	-	0	1	1	-	-	1	1	1	1	1	1	1	-	0
1	722719	722778	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
1	1050675	1050709	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
1	1093473	1093528	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
1	1167379	1167471	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
1	1167413	1167507	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
1	1167476	1167563	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
1	1179470	1179529	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
1	1217142	1217169	4	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	1217150	1217184	3	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	1217185	1217208	5	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	1217258	1217307	6	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	1217306	1217320	4	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	1219482	1219518	3	1	0	0	1	0	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
1	1219600	1219667	6	1	0	0	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
1	1222070	1222144	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
1	1222625	1222703	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
1	1222689	1222769	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
1	1222741	1222784	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
1	1262155	1262237	5	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	1262253	1262348	5	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	1354873	1354894	4	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
1	1591944	1591987	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
1	1628573	1628610	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
1	1629110	1629128	3	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
1	1789615	1789637	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
1	1928044	1928077	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
1	2052898	2052969	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
1	2053042	2053138	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
1	2072723	2072772	3	1	0	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
1	2189627	2189678	7	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
1	2189687	2189737	5	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
1	2212058	2212144	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
1	2235990	2236023	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
1	2243545	2243638	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
1	2251890	2251928	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
1	2301963	2302052	4	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	2304114	2304206	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
1	2304221	2304251	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
1	2305003	2305093	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
1	2305102	2305194	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
1	2496451	2496506	7	0	0	0	0	0	0	1	1	1	1	1	1	0	1	0	0	1	0	0	0	1	1
1	2583838	2583909	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
1	3638741	3638820	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
1	3638894	3638988	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
1	3643941	3644003	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
1	3809916	3810009	3	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	3902362	3902397	3	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1

1	5389322	5389366	3	0	-	0	0	0	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
1	5955554	5955585	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	5955824	5955883	3	1	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	5959935	5959995	4	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	5961872	5961905	3	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	6002824	6002867	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
1	6002974	6003068	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
1	6003077	6003125	8	1	1	1	0	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
1	6015179	6015266	4	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1
1	6056290	6056336	4	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	1	1	1	1	0
1	6093285	6093318	4	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1
1	6214790	6214888	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
1	6281180	6281264	6	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	6282827	6282850	3	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	6283064	6283096	3	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	6322833	6322930	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	6335366	6335419	3	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	6335406	6335481	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	6464357	6464399	4	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	6464387	6464477	4	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	6466508	6466570	3	0	0	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
1	6498797	6498884	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
1	6657788	6657848	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
1	6744922	6744942	2	1	1	1	1	1	1	1	1	0	1	0	1	1	0	1	1	1	1	1	1	1
1	6745528	6745537	3	1	0	0	1	0	0	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1
1	6861192	6861249	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
1	7955725	7955777	4	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	8107119	8107152	2	1	1	1	1	1	1	0	1	0	0	1	1	1	1	1	1	1	1	1	1	1
1	8153467	8153487	3	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
1	8276331	8276387	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
1	8419831	8419880	4	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	8433628	8433711	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
1	8921571	8921644	5	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	8922604	8922611	2	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	8922989	8923054	3	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	8923091	8923136	3	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	8923643	8923648	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	8964804	8964840	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	8966147	8966236	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	9007823	9007893	6	1	1	1	1	1	1	1	1	0	0	0	1	0	0	1	0	1	0	1	1	0	1
1	9007853	9007897	5	1	1	1	1	1	1	1	1	0	0	0	1	0	0	1	0	1	0	1	1	0	1
1	9122397	9122447	5	0	0	0	0	0	0	1	1	1	1	1	1	0	1	0	1	1	0	1	-	1	1
1	9163817	9163841	2	1	1	1	1	1	1	1	1	0	0	0	1	0	1	1	1	1	0	1	1	0	0
1	9180389	9180421	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1
1	9275097	9275197	4	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
1	9416659	9416740	6	1	0	1	1	0	1	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1	1
1	9416729	9416797	3	1	0	1	1	0	1	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1	1
1	9560182	9560240	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
1	9560447	9560520	6	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
1	9602072	9602157	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
1	9602172	9602270	7	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
1	9632929	9632949	2	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	9715657	9715663	2	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	9715689	9715723	5	0	1	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	9716557	9716605	3	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	9716570	9716629	3	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	9729011	9729105	5	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1
1	9731416	9731495	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
1	9732745	9732790	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
1	9737416	9737433	3	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1

1	9782960	9782995	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
1	9796403	9796460	5	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
1	10029138	10029193	5	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
1	10029158	10029214	4	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
1	10107637	10107648	2	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	1	1
1	10173716	10173801	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
1	10218666	10218722	5	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
1	10303891	10303969	5	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	10303930	10304014	6	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	10304008	10304062	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	10381543	10381612	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	10391182	10391271	3	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
1	10473585	10473652	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	0	1	1	1	1	1
1	10497198	10497281	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
1	10513368	10513467	3	1	1	1	1	0	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
1	10525727	10525788	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
1	10529247	10529288	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
1	10556537	10556636	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
1	10594689	10594773	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
1	10594738	10594796	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
1	10597360	10597445	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
1	11061218	11061227	2	1	0	0	0	0	0	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1
1	11073373	11073413	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
1	11783917	11783928	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
1	11792305	11792356	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
1	11926175	11926181	2	-	0	0	0	-	-	-	0	0	1	0	-	-	0	-	0	0	0	-	0	-	0
1	11959160	11959202	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	11986576	11986655	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
1	11986650	11986717	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
1	12030022	12030067	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
1	12045117	12045211	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
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1	30759926	30759987	3	-	0	0	0	0	0	1	1	1	1	1	1	0	1	1	0	1	0	1	0	1
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1	204148637	204148652	2	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	0
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2	3564095	3564186	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
2	5383728	5383784	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
2	5691552	5691565	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
2	5691916	5691969	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
2	5693265	5693304	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
2	5744769	5744837	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
2	5998468	5998516	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
2	6310549	6310554	2	0	-	0	0	0	0	-	-	1	0	0	0	-	0	-	0	0	0	0	0	0	0
2	6361257	6361351	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2	7728662	7728719	3	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2	7728919	7728966	6	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2	7749112	7749185	4	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
2	8152879	8152927	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
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2	46964038	46964134	3	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1
2	46984826	46984865	2	1	1	1	1	1	1	1	1	0	0	0	1	-	1	1	1	1	0	1	1	-	1
2	47023617	47023687	3	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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2	47040273	47040337	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
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2	102264755	102264819	3	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
2	102420014	102420041	3	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
2	106139816	106139858	3	1	0	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1	1
2	106159259	106159359	5	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1

2	106178912	106179002	4	1	1	1	1	1	1	0	0	1	1	1	0	1	1	1	1	1	1	1	1	1
2	106585505	106585535	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
2	107756023	107756049	2	1	1	0	1	1	1	1	-	1	1	1	1	1	1	1	1	1	0	1	1	1	0
2	108609863	108609910	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
2	108611616	108611661	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
2	108611644	108611679	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
2	108713423	108713479	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
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2	193366582	193366611	2	1	1	1	1	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
2	196162592	196162667	3	0	0	0	0	0	0	1	1	1	1	1	1	0	1	0	1	1	0	1	0	1
2	196200970	196201061	2	1	0	0	1	0	0	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1
2	196278515	196278581	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
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2	197145150	197145165	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1
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2	197344233	197344327	3	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
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2	235670632	235670670	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
2	235670695	235670715	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
2	235815433	235815507	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
2	236168246	236168258	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
2	236526320	236526379	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
2	236607325	236607352	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
2	237480642	237480702	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2	237542537	237542618	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
2	237639316	237639332	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	0	1	1	1
2	237739203	237739297	8	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
2	237739235	237739318	7	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
2	237885344	237885390	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
2	237886830	237886907	7	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	0	1	1	0	1
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2	237979481	237979562	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
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2	238105708	238105755	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
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2	239143238	239143296	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
2	239211903	239211931	3	0	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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2	240641430	240641494	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
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3	4804805	4804896	6	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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3	9653719	9653730	2	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	0	1
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3	16287913	16287946	3	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
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3	20049148	20049168	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1
3	21602547	21602603	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
3	24330131	24330177	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
3	25781580	25781655	4	1	1	1	1	1	1	1	1	1	1	1	1	-	1	1	1	1	0	1	1	1
3	26843409	26843465	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
3	27670150	27670239	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
3	27670236	27670336	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
3	27670283	27670348	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
3	27724565	27724606	3	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

3	27724767	27724809	4	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	27724813	27724866	5	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	27728768	27728814	4	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	27728789	27728874	4	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	27728811	27728902	4	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	27728871	27728966	6	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	27728886	27728977	6	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	27966769	27966855	3	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	30608225	30608302	4	0	0	0	0	0	0	1	1	1	1	1	1	0	1	0	1	1	0	1	0	1
3	30671750	30671755	2	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	30751070	30751142	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
3	31195517	31195554	4	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	31280705	31280776	2	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	31677940	31677975	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
3	31677942	31678014	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
3	31942230	31942291	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
3	31999868	31999904	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1
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3	32952509	32952523	3	1	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
3	32953922	32954014	4	1	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
3	32954048	32954143	2	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	32955484	32955526	4	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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3	33006200	33006277	6	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	33008055	33008091	3	1	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-	1
3	33071231	33071322	3	1	1	1	1	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	33145338	33145417	5	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1
3	33433349	33433438	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
3	36991323	36991383	2	1	0	0	1	0	0	1	1	1	1	1	-	-	1	1	1	1	0	1	0	1
3	37980819	37980891	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	38280705	38280788	5	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1
3	39075946	39075997	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
3	39076103	39076184	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1
3	39257051	39257148	6	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1
3	39358191	39358201	2	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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3	42072364	42072422	4	0	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
3	42167152	42167239	3	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	42449016	42449035	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
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3	42663832	42663918	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
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3	43671354	43671379	2	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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3	43706339	43706353	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	44927083	44927145	5	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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3	45164208	45164237	3	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	1	1	1	1	0	1
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3	47009622	47009657	4	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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3	67656073	67656128	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
3	69101932	69101938	2	1	1	1	0	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
3	69188612	69188651	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
3	69193694	69193763	4	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	69321594	69321634	3	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	1	1	1	1	1
3	69409222	69409232	2	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1
3	69766763	69766863	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1
3	69796756	69796781	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1
3	69848986	69849035	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
3	69848994	69849059	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
3	70096405	70096414	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
3	71160110	71160176	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
3	71489097	71489131	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
3	71564942	71565033	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
3	71707721	71707816	2	1	1	1	1	1	1	0	1	0	0	0	1	1	1	1	1	0	1	1	1	1
3	71984555	71984631	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1
3	72702474	72702546	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
3	72950408	72950493	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1
3	75443588	75443672	4	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	88152483	88152580	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
3	89351475	89351491	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
3	98564187	98564194	2	1	0	0	0	0	0	1	1	1	1	1	1	0	1	0	1	1	0	1	0	1
3	98586273	98586310	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
3	99795946	99795973	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
3	100381703	100381761	2	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	101466874	101466885	2	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
3	101678052	101678136	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
3	101701498	101701587	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1
3	102278267	102278276	2	1	-	1	1	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1	1	0
3	105659027	105659124	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
3	105659137	105659195	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
3	108017776	108017785	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1
3	108219485	108219543	3	1	1	1	1	1	1	1	1	1	1	1	1	-	1	1	0	1	0	1	1	1
3	108821451	108821528	2	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
3	111544229	111544291	3	1	1	0	0	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
3	112358080	112358093	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	113006247	113006272	2	0	0	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
3	113841302	113841326	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
3	114295732	114295788	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
3	114295772	114295835	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
3	119311116	119311125	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	0
3	119325917	119325963	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
3	119326017	119326066	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
3	119401032	119401129	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
3	119552205	119552299	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
3	120076681	120076740	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
3	120108294	120108359	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
3	121863631	121863728	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
3	122005466	122005473	2	1	1	0	1	1	0	1	1	0	0	0	1	0	1	1	1	1	0	1	1	0
3	122403703	122403787	2	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1

3	122694665	122694741	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
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3	122795593	122795616	3	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	123078244	123078302	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	123508301	123508332	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1
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3	125100928	125100971	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
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3	125142585	125142679	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
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3	125351286	125351350	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1	1	1
3	125622095	125622178	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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3	125763084	125763147	4	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	126456951	126457027	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
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3	126620943	126620953	2	1	1	1	1	1	1	1	1	0	0	-	1	1	1	1	1	1	1	1	1	-	1
3	126926894	126926930	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0
3	127044822	127044890	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
3	127610085	127610141	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
3	127755557	127755563	2	1	1	1	1	1	1	1	1	0	0	0	1	0	1	1	1	1	0	1	1	0	1
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3	129820889	129820912	2	1	1	1	1	1	1	1	-	1	0	0	-	1	0	1	1	1	1	1	1	-	1
3	130069318	130069329	2	1	1	1	1	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1	1	1	1
3	130773202	130773249	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
3	130949593	130949691	3	1	1	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
3	131981434	131981453	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1
3	133604605	133604660	3	1	0	0	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
3	133620178	133620199	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1	1
3	134217102	134217180	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
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3	136712958	136713050	3	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
3	136921972	136922064	4	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
3	138367635	138367670	3	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
3	138379513	138379611	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
3	138572023	138572069	3	1	0	0	1	0	0	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1	1
3	138604480	138604576	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	141287048	141287065	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
3	141331810	141331900	2	1	1	0	1	1	0	1	1	0	0	1	1	0	1	1	1	1	0	1	1	0	0
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3	142241901	142241932	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
3	142270516	142270522	2	1	1	0	1	1	0	0	1	0	0	0	1	1	0	0	1	0	1	1	1	0	1
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3	144657716	144657755	2	1	1	1	1	1	1	1	1	1	0	1	-	1	0	1	1	1	1	1	1	-	1
3	146554435	146554487	2	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
3	149402623	149402658	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
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3	157582441	157582524	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	158316529	158316591	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
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3	160394164	160394203	2	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	160580175	160580246	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
3	161159522	161159603	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
3	161420857	161420950	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	0
3	167275402	167275434	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
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3	169951486	169951566	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
3	170025894	170025952	3	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	170041445	170041528	8	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
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3	170063748	170063836	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
3	170063806	170063883	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
3	170063845	170063931	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
3	171081578	171081592	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	171446927	171446963	3	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	172206526	172206533	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	0	1	1	1	1	1
3	172699196	172699278	3	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	1
3	177247545	177247638	8	1	1	1	1	1	1	1	1	1	1	1	1	-	1	1	1	1	0	1	1	1	1
3	177247585	177247649	6	1	1	1	1	1	1	1	1	1	1	1	1	-	1	1	1	1	0	1	1	1	1
3	177247767	177247856	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
3	177247806	177247878	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
3	177270921	177270943	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
3	177361797	177361807	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	1
3	177551394	177551450	5	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
3	177624536	177624560	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	179844553	179844596	4	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	180376013	180376019	2	1	1	1	1	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1	1	1	0
3	182458343	182458387	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
3	182920734	182920803	4	1	1	1	1	1	1	1	0	1	1	1	0	1	1	1	1	1	1	1	1	1	1
3	182957443	182957521	3	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	182957498	182957578	3	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	183039097	183039154	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	183045235	183045301	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
3	183073920	183074001	3	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1
3	183378624	183378694	3	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
3	183378738	183378817	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	183485131	183485216	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
3	183525965	183526037	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
3	183526072	183526169	6	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
3	183780378	183780424	4	1	1	1	1	1	1	0	0	0	0	0	0	1	0	1	1	0	1	1	1	0	1
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3	183799569	183799641	3	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
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3	185298971	185298995	2	1	1	1	1	1	1	1	1	0	0	0	-	1	0	1	1	0	0	1	1	-	1
3	185689783	185689838	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
3	186115584	186115599	3	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1
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3	186993317	186993417	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1
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3	187803093	187803110	2	1	0	0	1	0	0	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1
3	187902024	187902098	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1
3	187954505	187954537	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1
3	188239135	188239191	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1
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3	188296120	188296133	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
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3	188606096	188606185	3	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
3	188693642	188693712	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1
3	188946947	188946960	3	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	0	1
3	191337432	191337495	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1
3	191346294	191346341	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	192849965	192849996	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
3	193869010	193869080	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	0	1	1	1
3	194570354	194570412	6	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	1	1	1	1	0	1
3	194592044	194592088	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
3	194951694	194951713	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	194998323	194998343	2	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	1	1	1	1	0	1
3	195129770	195129777	2	1	0	0	1	0	0	1	1	1	1	0	1	0	1	1	0	1	0	1	0	0	0
3	195183494	195183517	3	1	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
3	195524726	195524749	2	0	0	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
3	195524801	195524841	2	1	0	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
3	195656337	195656345	2	1	1	1	1	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	196052111	196052134	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
3	196154964	196154983	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
3	196170928	196170970	4	1	1	1	1	1	1	0	1	0	0	0	1	0	0	1	1	0	0	1	1	0	1
3	196208504	196208568	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	196220169	196220210	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
3	196220190	196220248	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
3	196220195	196220257	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
3	196220317	196220384	5	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	196220464	196220547	5	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
3	196233115	196233130	2	1	0	0	1	1	0	1	1	1	1	1	1	-	1	1	1	1	0	1	1	1	1
3	196235589	196235634	6	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	196236696	196236761	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	196252088	196252113	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
3	196439845	196439873	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
3	196498140	196498201	2	1	1	1	1	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	196528215	196528222	2	1	1	1	1	0	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
3	196563850	196563857	2	1	-	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-	1	1
3	196575176	196575216	4	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
3	196625209	196625275	5	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
3	196643994	196644053	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
3	196742740	196742835	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
3	196742772	196742870	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
3	196742788	196742878	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
3	196742808	196742892	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
3	196742822	196742916	10	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
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3	196804455	196804460	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	196981841	196981870	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
3	197018209	197018218	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	197735581	197735678	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
3	197774024	197774090	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
3	197912717	197912786	4	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	197912774	197912834	4	1	1	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	197912827	197912923	6	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	197912937	197913010	6	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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3	197934435	197934502	7	1	0	0	1	0	0	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1
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3	198219225	198219309	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
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3	198219287	198219361	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
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4	190225	190304	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
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4	721537	721566	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4	879081	879171	4	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
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4	2497928	2497947	3	1	1	1	1	1	1	1	1	0	0	0	1	0	0	1	0	1	0	1	1	0
4	2685664	2685759	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
4	2696413	2696497	5	1	1	1	1	1	1	1	1	1	1	1	1	-	1	1	0	1	0	0	1	1
4	2696481	2696572	8	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1
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4	2696621	2696705	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1
4	2770609	2770653	3	1	1	1	1	1	1	1	1	0	1	0	1	1	0	1	1	1	1	1	0	1
4	2796190	2796217	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4	2832636	2832707	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1
4	2944262	2944351	5	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4	2944427	2944501	3	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4	2944474	2944533	3	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4	2944664	2944698	3	1	1	1	1	1	1	0	1	1	1	0	1	1	1	1	1	1	1	1	1	1
4	2954020	2954033	2	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

4	2954477	2954490	2	0	0	0	1	0	0	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1	1
4	2956676	2956732	4	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4	2965422	2965485	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
4	2977704	2977775	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
4	3013895	3013909	2	1	0	0	1	-	0	1	1	1	1	1	1	-	1	1	1	1	0	1	0	1	1
4	3079045	3079125	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
4	3091609	3091627	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
4	3121346	3121401	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4	3257680	3257740	5	1	1	1	1	1	1	1	1	1	1	1	1	-	1	1	1	1	0	1	1	1	1
4	3370547	3370629	5	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4	3372462	3372494	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
4	3509398	3509432	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
4	3509453	3509487	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
4	4455570	4455660	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
4	5032328	5032406	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
4	6304080	6304122	3	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
4	6563982	6563999	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
4	6609207	6609261	5	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4	6609464	6609487	3	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
4	6734114	6734128	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
4	6774514	6774529	2	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	1	1	1	1	1	1
4	6785514	6785556	3	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
4	6944372	6944381	2	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	0	1
4	7068989	7069035	4	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	7785135	7785155	3	1	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
4	7786193	7786219	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
4	7792908	7792933	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
4	7939343	7939393	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
4	8172398	8172430	5	1	0	0	1	0	1	1	1	1	1	1	1	0	1	1	0	1	0	1	0	1	1
4	8287978	8287990	2	1	1	1	1	1	1	1	1	0	0	1	1	1	0	1	1	0	1	1	1	0	1
4	8860607	8860632	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
4	8872046	8872067	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
4	8874629	8874670	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
4	9214419	9214480	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
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4	9656646	9656661	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4	10655894	10655942	3	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4	11490266	11490335	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
4	11496570	11496575	2	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1
4	12115465	12115484	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
4	13987682	13987709	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
4	14844288	14844320	2	1	0	-	1	0	0	1	1	1	1	1	1	-	1	1	1	1	0	1	0	0	1
4	14944970	14945026	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
4	15670907	15670994	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	0	1	1	1
4	22444972	22445057	4	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4	25830766	25830790	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
4	26163834	26163891	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4	26175216	26175249	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
4	26731742	26731755	3	1	0	0	1	0	0	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1	1
4	26936769	26936852	3	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1
4	27017760	27017791	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
4	30065114	30065137	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4	30720413	30720481	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
4	30721486	30721511	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
4	30721678	30721703	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
4	36879959	36879978	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
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4	38382541	38382631	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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4	51540141	51540153	2	1	-	1	1	1	-	-	-	0	1	1	-	-	1	-	1	1	1	1	1	1	-
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4	56736854	56736913	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
4	61200673	61200709	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
4	61200750	61200801	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
4	66995898	66995941	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
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4	74443855	74443915	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
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4	80188930	80189008	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0
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4	80189304	80189391	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
4	80189439	80189525	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0
4	80190210	80190241	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0
4	80201284	80201353	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0
4	80201438	80201537	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
4	80207021	80207078	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
4	80263553	80263620	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
4	81608171	81608240	2	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1
4	81608237	81608279	2	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	0	1	1	1	1
4	82992707	82992768	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
4	83085030	83085071	4	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
4	83112539	83112555	2	0	1	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
4	84700827	84700882	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
4	84894551	84894586	2	1	0	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
4	85755662	85755695	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4	87021937	87021979	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
4	87499753	87499807	4	1	0	0	1	0	0	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
4	87835265	87835285	2	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1
4	87846380	87846436	2	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1
4	88381745	88381809	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
4	88527863	88527948	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
4	89025287	89025335	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
4	89318244	89318328	3	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
4	91424039	91424079	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
4	96364408	96364456	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
4	98468947	98468977	3	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	1	0
4	98566782	98566838	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0
4	98588275	98588352	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
4	98936904	98936940	3	0	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4	99848099	99848108	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
4	99851616	99851628	2	1	0	0	1	0	0	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1	1
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4	101017180	101017261	4	1	0	0	1	0	0	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1	1
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4	102564268	102564313	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
4	103075272	103075371	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
4	103498519	103498566	2	1	0	0	1	0	0	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	0
4	105095494	105095507	2	1	1	1	1	1	1	-	1	1	0	1	-	1	0	1	1	0	1	1	1	0	1
4	105122370	105122385	2	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4	105130402	105130414	2	1	1	1	1	1	1	1	1	1	1	1	-	-	1	1	1	1	1	1	1	-	1
4	105305433	105305534	3	1	-	0	1	1	0	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1	1
4	105807855	105807897	2	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4	106204825	106204892	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
4	108080979	108081004	5	0	0	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
4	108557275	108557344	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
4	109437558	109437657	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
4	109467197	109467259	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0

4	110248867	110248966	3	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0
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4	113467838	113467863	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0
4	115296828	115296884	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
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4	118265576	118265600	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
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4	128471978	128472076	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4	128787969	128788025	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4	131736707	131736771	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
4	131736845	131736916	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
4	131739843	131739873	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
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4	131739977	131740011	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
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4	131747070	131747123	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
4	131748067	131748129	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
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4	131756502	131756603	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
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4	139508735	139508826	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
4	139789472	139789480	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1
4	139850601	139850645	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1
4	139883047	139883077	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
4	139988091	139988103	3	1	1	1	1	1	1	1	1	1	1	0	-	1	1	1	1	1	1	1	1	1	1	1
4	140594703	140594708	2	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4	140755408	140755426	2	1	1	1	1	1	1	1	1	0	0	0	1	-	1	1	1	1	0	1	1	0	0
4	140928836	140928843	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4	142303184	142303212	2	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4	142386602	142386695	5	1	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4	142397556	142397607	4	1	0	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4	142397620	142397697	4	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4	145125932	145126029	3	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1	1
4	145181853	145181928	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
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4	145483115	145483178	4	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	147713172	147713224	5	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4	147714344	147714409	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4	147842770	147842789	2	1	1	1	1	1	1	1	1	1	1	0	-	1	1	1	1	1	1	1	1	1	-	1
4	148057907	148057964	4	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1	1

4	148863176	148863234	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
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4	151341599	151341679	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4	151671561	151671605	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
4	151701845	151701873	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
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4	152671677	152671743	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
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4	153438026	153438052	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1
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4	157076519	157076535	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
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4	166570112	166570149	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
4	166570135	166570159	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
4	168644528	168644574	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
4	169079353	169079360	2	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1
4	171813056	171813077	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	172208011	172208027	2	1	1	1	1	1	1	1	1	0	1	-	1	1	-	1	1	1	-	1	1	-
4	173416288	173416312	4	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0
4	176327511	176327529	2	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4	178476257	178476269	2	1	1	1	1	1	1	1	1	1	1	1	-	1	1	1	1	1	0	1	1	1
4	179313763	179313829	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
4	182809349	182809368	2	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
4	183490348	183490392	3	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	0	1	1	1	1
4	183549448	183549533	4	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4	184284325	184284402	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
4	184290396	184290431	4	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4	184392886	184392965	3	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	1	1	1	1	1
4	184396159	184396250	3	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1
4	184396247	184396341	9	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1
4	184396662	184396756	3	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1
4	184436253	184436283	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4	184548168	184548216	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
4	184672506	184672540	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4	184672515	184672584	6	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4	184672573	184672656	3	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4	184672808	184672863	5	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1
4	184675065	184675166	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4	184740605	184740623	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
4	184802778	184802838	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1
4	184853543	184853551	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1
4	185251245	185251286	2	1	0	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
4	185342063	185342136	4	1	0	0	1	0	0	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1
4	185879924	185879957	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
4	186555483	186555497	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0

5	170253	170335	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
5	392781	392807	3	0	0	0	0	0	0	0	1	0	0	0	1	1	0	0	1	0	0	1	0	0	1
5	486194	486203	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
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5	912536	912555	5	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
5	950114	950137	3	1	1	1	1	0	0	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
5	1067897	1067959	6	1	1	1	1	1	1	1	0	1	1	1	0	1	1	1	1	1	1	1	1	1	1
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5	1097656	1097698	5	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5	1313534	1313548	3	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	1
5	1341687	1341775	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
5	1342048	1342059	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
5	1342249	1342300	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
5	1342905	1342976	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
5	1342957	1343053	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
5	1342973	1343061	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
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5	1477590	1477639	4	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
5	1480664	1480739	4	1	1	1	1	1	1	0	1	0	0	0	1	0	0	1	1	0	0	1	1	0	1
5	1484941	1484951	2	1	1	1	1	1	1	1	1	1	1	1	1	-	1	1	0	1	0	1	1	1	1
5	1485715	1485807	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
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5	1490120	1490156	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
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5	1505666	1505716	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
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5	1524794	1524852	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
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5	2751326	2751343	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
5	2751419	2751431	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
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5	6649844	6649865	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
5	6659871	6659966	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
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5	6737664	6737745	6	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
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5	9538647	9538701	3	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5	9538817	9538882	3	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5	10236060	10236073	2	1	1	1	1	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1	1	1	1
5	10258126	10258191	4	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5	10258155	10258230	4	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5	10443448	10443496	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
5	10562716	10562736	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	0	0	0	1	1	1
5	10602313	10602382	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5	10626076	10626143	5	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
5	10632437	10632467	3	1	0	0	1	0	0	1	1	0	0	0	1	0	0	1	0	0	0	1	0	0	1
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5	14226453	14226486	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
5	14245579	14245604	2	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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5	17219703	17219755	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1
5	17219726	17219822	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1
5	17266735	17266792	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
5	17518579	17518631	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
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5	53128294	53128343	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
5	54541098	54541154	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
5	54671494	54671506	2	1	1	1	1	1	1	1	1	0	0	0	1	0	0	1	1	0	1	1	1	0	1
5	55142289	55142314	2	1	1	1	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5	55669986	55670067	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5	55713545	55713644	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
5	56100246	56100285	3	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5	56102363	56102377	3	0	-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
5	56140163	56140183	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
5	56160300	56160397	7	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

5	56160428	56160487	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5	56699825	56699886	4	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5	56708552	56708571	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
5	56898185	56898191	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
5	57126642	57126690	3	1	0	0	1	0	0	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1
5	57193335	57193345	2	1	0	0	1	0	0	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1
5	57312851	57312899	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
5	58542219	58542273	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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5	65797245	65797328	3	1	-	1	1	-	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
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5	67100526	67100567	4	1	1	0	1	0	0	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
5	67165330	67165342	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5	67179046	67179076	4	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1
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5	67222835	67222936	2	1	1	1	1	1	1	-	-	0	1	0	-	-	0	1	0	0	0	-	1	-	1
5	68046546	68046631	4	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	0	1	1	1	0	0
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5	78566703	78566751	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
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5	80082469	80082538	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
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5	119299941	119299979	5	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
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5	119349525	119349536	2	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1	1
5	120245790	120245848	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5	120694499	120694558	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
5	122220731	122220736	2	1	1	1	1	1	1	1	1	1	0	0	1	1	0	1	1	1	1	1	1	0	1
5	122702381	122702432	3	1	1	1	1	1	1	1	1	1	1	1	1	-	1	1	0	1	0	1	1	1	1
5	123867469	123867512	5	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1	1	1	1	1	1	1	0
5	124912614	124912648	2	1	1	1	1	1	1	1	1	-	0	0	-	1	1	0	1	1	1	0	1	1	0	1
5	124936387	124936448	4	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
5	124936597	124936630	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
5	126012747	126012772	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1
5	126762691	126762719	4	1	1	0	1	0	0	1	1	0	0	0	1	0	0	1	1	1	0	1	1	0	1
5	126763096	126763159	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
5	126769437	126769516	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
5	126773826	126773868	3	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
5	126787618	126787713	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
5	126791941	126792004	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
5	126816766	126816832	4	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1	0	1	1	1	1	1	1
5	126837992	126837998	2	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
5	127160094	127160150	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
5	127618921	127618945	2	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
5	127951784	127951883	3	1	0	0	1	0	0	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
5	128263477	128263573	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
5	128263665	128263712	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
5	128537815	128537840	6	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	129098111	129098201	3	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
5	131336833	131336925	4	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5	131338968	131338975	2	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1
5	131339017	131339045	2	1	1	1	1	1	0	1	1	1	1	1	1	0	1	0	1	1	0	1	1	1	1
5	131339107	131339122	2	1	1	1	1	1	0	1	1	1	1	1	1	0	1	0	1	1	0	1	1	1	1
5	131373800	131373837	3	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5	131657782	131657847	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
5	131657805	131657899	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
5	132077308	132077335	3	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5	132448112	132448131	3	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	1	1	1	1	-	1
5	132465559	132465656	3	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1
5	132635432	132635484	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
5	132658193	132658275	4	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5	132674407	132674481	3	1	1	1	1	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5	133103347	133103401	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1	1
5	133699602	133699621	4	1	0	0	1	0	0	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1	1
5	133902576	133902659	3	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0
5	133902753	133902836	3	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5	133958328	133958424	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
5	133958404	133958493	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
5	133958436	133958533	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
5	133975665	133975752	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
5	134014026	134014119	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1

5	134126224	134126245	3	0	1	1	0	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1
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5	134882707	134882734	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
5	135491609	135491658	7	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
5	135647074	135647099	2	1	1	1	1	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1	1	1	1
5	136042952	136043030	4	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
5	138028849	138028939	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
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5	139414711	139414798	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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5	140546976	140547034	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
5	140607369	140607403	2	1	1	1	1	1	1	0	1	0	0	0	-	1	0	1	1	0	1	1	1	1	1
5	140679017	140679080	6	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5	141463516	141463543	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5	141516964	141517024	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
5	142088672	142088718	4	1	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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5	142110076	142110110	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
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5	149261453	149261508	4	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	-	1
5	150106050	150106115	3	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	1
5	150478301	150478344	4	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
5	150478412	150478503	7	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
5	150597399	150597482	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
5	151026826	151026861	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
5	151079101	151079129	2	1	0	0	1	0	0	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1	1
5	151096171	151096194	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
5	151159576	151159669	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
5	151233948	151234014	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
5	151749884	151749929	3	1	0	0	1	0	0	1	1	0	0	1	1	0	1	1	1	1	0	1	0	0	1
5	152345884	152345916	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
5	154456362	154456458	3	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5	154456449	154456476	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5	157611184	157611231	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5	157772296	157772321	3	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
5	157860370	157860457	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
5	159414575	159414590	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
5	159424463	159424518	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
5	160082259	160082314	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
5	160348141	160348225	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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5	160472958	160472972	2	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
5	160473888	160473954	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1

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5	160476200	160476244	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
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5	170485074	170485103	4	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
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5	172103051	172103063	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	
5	172155215	172155265	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
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5	174490099	174490117	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5	174629627	174629683	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
5	174724494	174724511	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
5	174724519	174724543	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
5	174725029	174725050	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
5	175526481	175526503	3	1	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5	175555258	175555296	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1
5	176443902	176444000	3	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5	176527581	176527631	4	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5	176529398	176529419	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
5	176541013	176541032	2	0	1	0	0	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
5	177132092	177132156	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
5	177159384	177159473	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
5	177159390	177159484	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
5	177159624	177159692	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
5	177159657	177159719	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
5	177159748	177159842	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
5	177159790	177159890	6	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
5	177173016	177173091	6	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
5	177173147	177173242	7	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
5	177387549	177387624	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
5	177415997	177416031	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	0
5	177419830	177419896	4	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
5	177427955	177428038	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
5	177431586	177431649	4	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
5	177432262	177432290	3	0	0	0	0	0	0	1	1	1	1	1	1	0	1	0	0	1	0	1	0	0	1
5	177434768	177434824	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
5	177510705	177510744	4	1	1	1	1	1	1	0	1	0	0	0	1	0	0	1	1	0	0	1	1	0	1
5	177510718	177510767	4	1	1	1	1	1	1	0	1	0	0	0	1	0	0	1	1	0	0	1	1	0	1
5	177510741	177510835	3	1	1	1	1	1	1	0	1	0	0	0	1	0	0	1	0	0	0	1	1	0	1
5	177510832	177510909	3	1	1	1	1	1	1	0	1	0	0	0	1	0	0	1	0	0	0	0	1	0	1
5	178073192	178073253	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1

5	178118100	178118133	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
5	178121613	178121647	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	0	1	1	1
5	178301899	178301938	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
5	178450538	178450554	3	1	1	1	1	1	1	0	0	0	0	0	1	1	0	1	1	0	1	1	1	0	1
5	178469821	178469891	5	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5	178525555	178525618	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
5	178547190	178547219	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1
5	179553985	179553993	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	0	0	0
5	179677376	179677472	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
5	179677392	179677483	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
5	179768370	179768454	6	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5	179768410	179768494	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5	179773133	179773192	6	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1
5	179782435	179782489	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
5	179819510	179819552	4	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	179853503	179853571	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
5	179906331	179906419	5	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5	180034658	180034664	2	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1
5	180829433	180829454	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	1
5	181032366	181032450	9	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5	181219666	181219719	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
5	181326064	181326095	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
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6	146313	146372	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
6	194554	194601	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
6	209706	209729	4	1	0	0	1	0	-	1	1	1	1	1	1	1	1	1	1	1	0	1	0	0	1
6	209711	209770	4	1	0	0	1	0	-	1	1	1	1	1	1	-	1	1	1	1	0	1	0	0	1
6	209762	209791	3	1	0	0	1	0	-	1	1	1	1	1	1	-	1	1	1	1	0	1	0	0	1
6	216925	217019	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
6	218519	218557	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
6	398723	398784	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
6	425235	425306	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
6	447377	447440	3	1	0	0	1	0	0	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1	1
6	447527	447532	2	1	1	0	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
6	468135	468234	4	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	484664	484760	3	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
6	485853	485887	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
6	488113	488129	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
6	498769	498840	4	1	0	0	1	0	0	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1	1
6	513248	513292	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
6	548228	548325	3	1	-	0	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
6	550082	550125	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	713663	713673	3	1	1	1	1	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1	1	1	1
6	741588	741672	3	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	1558572	1558653	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
6	1624029	1624049	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
6	1725491	1725504	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
6	1786942	1787015	6	1	1	-	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
6	2232699	2232769	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
6	2788736	2788780	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
6	2857375	2857458	4	1	1	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
6	2946288	2946380	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
6	3012929	3012980	2	1	1	1	1	1	1	0	1	1	1	1	1	1	0	1	1	0	1	1	1	-	0
6	3019549	3019648	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
6	3019578	3019679	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
6	3019665	3019706	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
6	3370411	3370465	4	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	3371483	3371523	2	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	3390848	3390936	4	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0

6	3451830	3451902	4	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	3623458	3623503	4	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1
6	3850670	3850696	4	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
6	4352064	4352075	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0
6	4553539	4553571	3	1	-	0	1	0	0	1	1	1	1	1	1	-	1	1	1	1	0	1	1	1	1
6	5148881	5148932	2	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	6685780	6685875	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	6713736	6713743	2	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1
6	7221466	7221473	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	7675603	7675650	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	7857887	7857927	2	1	1	1	1	1	1	1	1	1	1	1	-	1	1	1	1	1	0	1	1	1	1
6	7898243	7898304	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
6	7898961	7899018	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
6	7907233	7907333	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
6	7908708	7908795	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
6	7934308	7934368	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
6	8017286	8017374	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
6	8086633	8086639	2	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	9494487	9494536	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
6	10533909	10533967	4	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
6	10533959	10533985	4	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
6	10640620	10640710	3	1	1	1	1	1	1	1	0	1	1	1	0	1	1	1	1	1	1	1	1	1	1
6	10733081	10733180	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
6	10733204	10733283	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
6	10751610	10751694	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
6	11123287	11123318	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
6	11278220	11278314	4	1	1	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
6	11705301	11705342	5	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	11975712	11975793	3	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
6	12184565	12184629	3	1	0	0	1	0	0	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1	1
6	12527982	12528043	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
6	13412607	13412677	4	1	1	1	1	1	1	1	-	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
6	13434922	13434963	2	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
6	13747599	13747627	3	1	0	0	1	0	0	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1	1
6	14043620	14043719	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
6	14072172	14072237	2	1	1	0	1	0	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1
6	14089744	14089790	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
6	14095682	14095702	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	0	1	1
6	14523833	14523907	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
6	14713150	14713169	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	0
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6	15056568	15056627	3	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	15177086	15177142	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	15365461	15365544	3	0	1	1	0	1	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
6	15395315	15395412	5	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	15395371	15395428	4	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	15496202	15496255	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
6	15496331	15496414	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	15505640	15505720	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
6	15516221	15516230	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
6	15525230	15525288	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
6	15526539	15526626	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
6	15530547	15530589	3	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	16306549	16306636	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1

6	16477752	16477807	2	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	16488443	16488503	2	1	1	1	0	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
6	16640464	16640553	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
6	16640538	16640609	6	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
6	16640574	16640671	6	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
6	16694274	16694285	2	1	1	1	1	1	1	0	1	0	0	0	1	1	1	1	1	1	1	1	1	0	1
6	16703768	16703819	4	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	17582362	17582398	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
6	17881491	17881571	3	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
6	17881558	17881649	5	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
6	17881588	17881676	5	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
6	18245974	18246005	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
6	20167846	20167858	2	1	1	1	1	1	1	-	1	-	0	0	-	1	0	1	1	1	1	1	1	-	1
6	22063228	22063295	7	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
6	22146618	22146714	7	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1
6	24483432	24483451	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
6	24602615	24602675	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
6	25027851	25027862	2	1	0	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1	1
6	26060468	26060549	4	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
6	26060479	26060570	4	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
6	26060542	26060600	4	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
6	26060567	26060663	3	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
6	26163518	26163590	3	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	26225158	26225195	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0
6	26225205	26225248	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0
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6	26225301	26225346	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0
6	26225361	26225406	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0
6	26565643	26565672	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	0	1	1	1
6	26956544	26956574	4	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
6	27762076	27762165	7	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	27762084	27762181	8	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	27762173	27762257	8	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	28359977	28359986	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	28383421	28383430	2	0	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	28775803	28775828	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
6	28950114	28950168	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
6	29066448	29066481	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
6	29318623	29318686	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
6	29754282	29754346	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
6	30816484	30816539	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
6	31852026	31852069	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
6	31852077	31852134	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
6	31855173	31855229	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
6	31932061	31932101	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
6	32140565	32140655	5	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0
6	32308413	32308427	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
6	32331871	32331901	2	1	1	1	1	1	1	1	1	0	0	0	1	-	0	1	1	1	0	1	1	0	0
6	33320518	33320557	5	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	0
6	33669281	33669312	2	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
6	34774246	34774261	2	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1
6	34805156	34805231	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
6	34808068	34808143	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
6	34811750	34811813	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
6	35049822	35049843	2	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	1	1
6	35305768	35305866	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
6	35757373	35757397	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	35883794	35883893	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
6	35883890	35883986	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
6	35883933	35884030	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1

6	35974038	35974047	2	1	0	0	1	0	0	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1	1
6	36109207	36109220	2	0	0	0	0	1	0	1	1	1	1	1	1	0	1	1	0	1	0	1	0	1	1
6	36514706	36514806	5	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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6	36591983	36592030	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	0	1	1	1
6	36630028	36630044	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1
6	36697723	36697736	2	1	1	1	1	0	1	0	0	0	0	0	0	1	0	1	1	0	1	1	1	0	1
6	37005040	37005129	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1	1
6	37009250	37009275	4	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	1	1	1	1	0	1
6	37109836	37109842	2	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	37110366	37110441	3	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	37152151	37152247	6	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
6	37229466	37229534	6	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	37556305	37556378	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
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6	37630669	37630742	3	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	1	1	1	1	1	0
6	37735378	37735451	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
6	37844795	37844843	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
6	37963115	37963154	4	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	38153803	38153853	3	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
6	38173656	38173727	4	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
6	38358915	38358934	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
6	38937889	38937952	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
6	38937989	38938088	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
6	38938011	38938107	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
6	38938085	38938124	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
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6	38938703	38938709	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
6	40520876	40520962	3	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	41100984	41101039	6	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	41201172	41201236	4	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
6	41604925	41604980	5	1	1	1	1	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1	1	1	0
6	41720491	41720546	2	1	1	1	1	1	1	1	1	0	0	1	1	0	1	1	1	1	0	1	1	1	1
6	41953195	41953223	4	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	42236267	42236321	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
6	42357398	42357434	2	1	1	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	42371497	42371513	3	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1
6	42373770	42373862	3	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
6	42390597	42390677	5	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1
6	42402864	42402899	2	1	1	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	42597727	42597778	4	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
6	42727654	42727675	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
6	43141904	43142003	5	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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6	43221784	43221824	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0
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6	43312592	43312634	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
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6	44261702	44261777	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
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6	45424139	45424172	4	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
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6	46358074	46358109	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
6	52486046	52486086	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	52529014	52529094	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1

6	52529132	52529152	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
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6	56459055	56459153	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
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6	66303730	66303737	2	1	1	1	1	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1	1
6	69549163	69549210	2	1	1	1	1	1	1	-	1	1	1	1	-	1	1	1	1	1	1	1	1
6	71333857	71333868	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	0	0
6	72838880	72838938	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
6	73449908	73449940	3	1	0	0	1	0	0	1	1	1	1	1	1	1	1	1	1	0	1	1	1
6	73450137	73450208	3	1	0	0	1	0	0	1	1	1	1	1	1	0	1	1	1	0	1	1	1
6	73522755	73522824	4	1	1	0	1	0	0	1	1	1	1	1	1	0	1	1	1	0	1	1	1
6	73529077	73529082	2	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1
6	78154861	78154879	2	1	-	1	1	1	1	-	1	1	1	1	-	1	1	1	1	1	1	1	1
6	78860916	78860995	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
6	78860956	78861034	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
6	78861016	78861097	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
6	79770063	79770114	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
6	87683864	87683943	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
6	87724743	87724798	5	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	88074337	88074396	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
6	88074345	88074411	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
6	88714598	88714665	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
6	89087357	89087408	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
6	89797241	89797332	3	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1
6	89962421	89962512	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
6	90369295	90369319	2	1	0	0	1	0	0	1	1	0	0	1	1	0	1	1	1	0	1	0	1	0
6	90444305	90444333	2	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	90560384	90560466	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
6	98935648	98935715	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
6	98935650	98935722	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
6	99484601	99484685	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1
6	100154326	100154334	2	-	1	1	1	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1	1
6	101949465	101949528	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	105455332	105455338	2	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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6	106114740	106114762	2	1	0	0	1	0	0	1	1	1	1	1	1	0	1	0	1	1	0	1	0	1	1
6	106126382	106126393	2	1	0	-	1	0	0	1	1	0	0	0	1	1	1	1	1	1	0	1	-	0	1
6	106143793	106143809	4	1	1	1	0	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
6	106143975	106144027	2	1	1	1	0	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
6	106155586	106155622	3	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
6	106155719	106155801	4	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	1	1	1	1	0	1
6	106668908	106668989	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
6	107083336	107083371	3	1	0	1	1	0	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
6	107108195	107108234	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	107785337	107785345	2	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	107933854	107933879	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
6	107933866	107933894	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
6	108258388	108258419	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1	1
6	108561709	108561720	3	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
6	108561861	108561890	6	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	
6	108578824	108578870	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	108621218	108621293	3	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	0
6	108823727	108823778	5	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	1	1	1	1	0	1
6	108840344	108840385	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
6	108967388	108967397	2	1	1	0	1	1	0	0	0	0	0	0	-	0	0	0	0	0	0	0	1	0	0
6	109046239	109046275	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
6	109445898	109445939	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
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6	110811441	110811538	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
6	110886401	110886468	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
6	111228888	111228923	2	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	1	1	1	1	1	0
6	111605203	111605261	6	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	111741835	111741873	2	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
6	111840985	111841009	2	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	112112325	112112345	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
6	113644058	113644139	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
6	113860236	113860247	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	0
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6	115953337	115953412	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
6	122163520	122163568	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
6	122434066	122434077	2	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	125845722	125845816	2	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
6	127922150	127922189	4	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	127952569	127952642	5	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	127979627	127979699	3	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	129697072	129697084	2	1	1	1	1	1	1	0	1	0	0	0	1	1	1	1	1	1	1	1	1	0	1
6	130218243	130218326	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
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6	130221351	130221409	3	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
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6	133663991	133664023	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
6	133964573	133964671	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
6	134185826	134185863	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
6	134199384	134199429	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
6	134239539	134239553	2	1	1	1	1	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1	1	1	1
6	134337492	134337561	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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6	134541230	134541266	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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6	136629183	136629259	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
6	136730458	136730519	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
6	136855424	136855488	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
6	137877765	137877847	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
6	137877821	137877912	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
6	137920578	137920663	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
6	138670461	138670524	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
6	138870718	138870748	4	1	0	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1	1
6	138882925	138882950	3	1	0	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
6	139027917	139027998	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
6	139185496	139185563	5	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	139257583	139257595	2	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	139518543	139518618	5	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	142289761	142289850	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
6	142773354	142773449	5	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	142774480	142774575	3	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	142774572	142774604	2	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	142905384	142905420	3	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
6	142905791	142905871	4	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	143735487	143735519	2	1	1	1	1	1	1	0	1	1	0	0	1	1	0	1	1	0	1	1	1	-	1
6	144065974	144065989	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
6	144149536	144149634	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
6	144286838	144286919	4	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	144286975	144286999	5	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	144287033	144287044	3	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	144287117	144287145	4	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	144311123	144311199	3	1	0	-	1	0	-	1	1	1	1	1	1	1	1	1	1	1	0	1	-	1	1
6	144775522	144775606	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
6	144834775	144834790	2	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1

6	148379113	148379123	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
6	148520232	148520330	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
6	148611400	148611466	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0
6	148611550	148611599	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
6	148917883	148917947	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
6	148917908	148918002	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
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6	149257888	149257958	3	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1
6	149316118	149316144	2	1	1	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	149480603	149480694	5	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1	1
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6	149480866	149480909	4	1	0	0	1	0	1	1	1	1	1	1	1	0	1	1	0	1	0	1	0	1	1
6	149484059	149484097	3	1	0	-	1	0	0	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1	1
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6	150101925	150101931	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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6	150183533	150183616	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
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6	151286482	151286502	3	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	152098004	152098042	4	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
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6	152239057	152239138	3	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	152293984	152294054	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	154239733	154239791	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
6	154241107	154241186	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
6	154420612	154420685	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
6	154474929	154474964	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1
6	154682793	154682869	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
6	155165468	155165539	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
6	155178108	155178157	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
6	155180192	155180266	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
6	155184149	155184242	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
6	155184234	155184280	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
6	155184478	155184529	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
6	155295192	155295240	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
6	155295221	155295260	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
6	155421567	155421634	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
6	155421625	155421700	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
6	155590557	155590617	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
6	156107801	156107889	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1	0
6	156107879	156107906	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1	0
6	156107903	156108002	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	0
6	156107999	156108058	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	0
6	156174788	156174814	3	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
6	156588981	156589062	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
6	156855270	156855296	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
6	156855401	156855422	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1
6	157097921	157097972	2	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	157224263	157224312	4	1	1	1	1	1	1	1	1	1	1	1	1	-	1	1	0	1	0	0	1	1	1
6	157224430	157224525	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
6	157224445	157224545	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
6	157224536	157224608	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
6	157294435	157294501	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
6	157393120	157393170	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	157488816	157488887	5	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	157517731	157517782	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
6	157659875	157659932	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1

6	158028664	158028723	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
6	158042395	158042406	2	1	1	1	1	1	1	1	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0
6	158045515	158045574	4	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1
6	158297780	158297790	2	1	1	1	1	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	158481268	158481349	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
6	158564989	158565014	4	1	1	0	1	0	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
6	158707303	158707331	3	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0
6	158794069	158794107	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
6	158995877	158995890	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
6	159049131	159049229	3	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	159049192	159049281	3	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	159836828	159836867	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
6	160015452	160015528	3	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	161110439	161110500	4	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	0	1	1	0	1
6	161117513	161117578	5	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
6	161135976	161135981	2	1	1	1	1	1	1	1	1	1	1	1	1	-	1	1	0	1	1	0	1	0	1
6	161242178	161242265	4	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
6	161242280	161242352	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
6	161261299	161261370	4	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1
6	161265764	161265824	3	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	162391518	162391530	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	163344725	163344766	5	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
6	163352053	163352128	6	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
6	163467171	163467178	2	1	1	1	1	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1	1	0	1
6	166074079	166074146	5	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	166411990	166412043	4	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1
6	166417106	166417135	3	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	166446317	166446348	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
6	166488342	166488368	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
6	166490828	166490919	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
6	166494809	166494893	4	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
6	166495188	166495272	3	1	0	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
6	166495358	166495366	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
6	166707199	166707255	4	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
6	166763734	166763765	5	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
6	166764771	166764806	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	166775746	166775786	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	167080123	167080145	3	1	0	0	1	0	0	1	1	0	0	0	1	0	0	1	0	1	0	1	0	0	1
6	167115114	167115141	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
6	167951836	167951851	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
6	167951913	167951934	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
6	168252908	168252927	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
6	168884177	168884196	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
6	168884223	168884281	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
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6	169699079	169699163	3	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
6	169765919	169765994	5	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	-	1	0	1
6	170082189	170082288	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
6	170082220	170082294	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
6	170255800	170255840	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
6	170267331	170267373	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
6	170421499	170421504	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	170445208	170445240	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
7	80901	80916	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
7	118653	118693	4	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
7	210049	210069	3	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	1	1	1	1	0	1
7	210088	210102	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	1
7	213777	213816	4	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
7	213847	213854	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	1
7	255319	255361	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1

7	333678	333752	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	411767	411847	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	585351	585384	3	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1	1
7	607961	607987	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
7	751716	751735	4	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	752060	752101	4	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	852694	852771	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
7	909129	909166	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
7	921053	921110	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
7	926072	926109	2	1	1	1	1	1	0	1	1	1	1	1	1	1	1	-	1	1	1	1	1	1
7	936044	936080	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
7	950242	950289	5	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
7	1000313	1000337	4	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
7	1004189	1004227	4	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
7	1023234	1023323	10	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1	1
7	1027777	1027813	4	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	1033621	1033703	6	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	
7	1103092	1103131	5	1	1	0	1	1	0	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1	
7	1148085	1148153	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1	
7	1150589	1150599	2	1	1	1	1	1	0	1	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1	
7	1235519	1235544	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	
7	1360766	1360795	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	
7	1507228	1507270	4	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7	1513449	1513524	4	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7	1537506	1537601	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	
7	1566741	1566832	5	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
7	1568709	1568752	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
7	1860356	1860395	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1		
7	1864958	1865040	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	
7	1916477	1916487	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	1	
7	1948687	1948749	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
7	2056111	2056126	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1		
7	2072117	2072127	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1	1	
7	2076955	2076988	4	1	1	1	1	1	1	0	1	1	1	1	1	1	0	1	1	0	1	1	1	1	1	
7	2085355	2085396	4	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
7	2109914	2110013	4	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	
7	2109939	2110020	4	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	
7	2168232	2168273	3	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
7	2168709	2168714	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
7	2182621	2182699	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	
7	2258761	2258860	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	
7	2258860	2258959	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	0	1	1	1	1	1	
7	2277255	2277325	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	
7	2299104	2299118	2	1	1	1	1	1	1	1	1	0	0	0	1	0	1	1	0	1	0	0	1	0	1	
7	2299115	2299149	2	1	1	1	1	1	1	1	1	0	0	0	1	0	1	1	0	1	0	0	1	0	1	
7	2306819	2306873	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	
7	2319166	2319267	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	
7	2327054	2327068	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	
7	2337122	2337187	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
7	2362662	2362704	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	
7	2362823	2362893	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	
7	2457911	2457916	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	
7	2567228	2567249	3	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	
7	2580814	2580876	4	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	
7	2607320	2607374	4	1	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	1	
7	2637328	2637341	2	1	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	1
7	2639626	2639646	2	1	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	1
7	2760148	2760214	4	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
7	2789173	2789238	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	2793330	2793358	4	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	0	1	1	1	1	1	1

7	2820585	2820607	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0
7	2826053	2826108	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
7	2908272	2908320	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	0	1	1
7	2908422	2908488	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1
7	2908501	2908598	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1
7	2908860	2908927	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
7	2954800	2954817	3	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	1	0	1	0	0	1
7	3039966	3040045	3	1	0	1	1	0	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
7	4705572	4705631	5	1	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
7	4712538	4712565	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
7	4730433	4730466	2	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	4730625	4730701	5	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	4739710	4739736	4	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
7	4768162	4768227	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	5230865	5230938	7	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	1
7	5249145	5249150	2	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1	1
7	5342320	5342390	6	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	5362851	5362909	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
7	5452619	5452710	6	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	5506308	5506381	5	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
7	5506404	5506445	4	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	1	1	1	1	0	1
7	5510464	5510512	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
7	5542146	5542187	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
7	5542316	5542379	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
7	5551601	5551620	2	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	1	1	1	1	0	1
7	5555159	5555166	2	0	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	6056331	6056423	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	6056465	6056554	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	6338887	6338917	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
7	6373415	6373436	2	1	0	1	1	1	1	0	1	0	0	0	1	0	0	1	1	0	0	1	1	0	1
7	6392904	6392961	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
7	6421539	6421571	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	6434226	6434292	4	1	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
7	6434266	6434348	5	1	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
7	6434342	6434407	3	1	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
7	6435399	6435444	4	1	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
7	6436371	6436389	3	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
7	6478228	6478305	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
7	6582539	6582593	5	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
7	6587957	6588028	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	8131695	8131731	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	0
7	8136525	8136534	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
7	8136531	8136549	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
7	8196924	8196970	4	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	8198596	8198603	2	1	-	-	0	0	-	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1
7	8387578	8387639	2	1	0	1	1	0	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
7	10113452	10113508	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	12594262	12594308	3	1	1	1	1	1	1	1	1	0	1	-	1	1	1	1	1	1	1	1	1	1	1	1
7	14188466	14188522	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	16668186	16668277	4	1	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	0
7	16668246	16668323	4	1	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	0
7	17408620	17408718	4	1	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	0
7	17933369	17933459	5	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
7	17933402	17933501	7	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
7	17933456	17933531	5	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
7	18439512	18439560	3	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
7	18517235	18517325	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
7	18567184	18567255	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1	1	1
7	18573543	18573597	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1	1
7	18844965	18845000	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1

7	20191591	20191610	2	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1
7	21900987	21901078	5	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
7	21930611	21930675	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1
7	22290560	22290615	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	22331078	22331142	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
7	22709707	22709791	3	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1
7	22709783	22709834	5	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1
7	22709811	22709876	4	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1
7	22726105	22726201	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
7	23164989	23165008	2	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1
7	23246699	23246729	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	0
7	23681658	23681729	5	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1
7	24834514	24834596	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
7	24932907	24932996	3	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1
7	24932964	24933031	3	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1
7	24933028	24933125	4	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1
7	24933112	24933161	4	1	1	1	1	1	1	1	1	1	1	1	-	1	1	0	1	0	0	1	1
7	24969114	24969187	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1
7	25028585	25028604	3	1	0	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
7	25968860	25968870	2	1	0	0	1	0	0	1	1	1	1	1	0	1	0	1	1	0	1	0	1
7	27000611	27000664	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1
7	27110733	27110756	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	27110753	27110800	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	27110890	27110981	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	27115294	27115385	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	27115402	27115495	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	27115473	27115573	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	27115738	27115782	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	27115747	27115796	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	27115884	27115963	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	27115960	27116057	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	27116008	27116099	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	27116057	27116114	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	29142627	29142639	2	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
7	29609328	29609356	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	30169283	30169304	2	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	0	0
7	30169517	30169540	2	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	0
7	30590813	30590861	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	30798640	30798690	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
7	32940208	32940251	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	33761626	33761663	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
7	35725411	35725430	3	0	0	0	0	0	0	1	1	1	1	1	1	0	1	0	0	1	0	0	0	1	1
7	36168475	36168527	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
7	36279632	36279699	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
7	36336464	36336562	3	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	36380759	36380834	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
7	36435688	36435747	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	38217031	38217076	2	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
7	39774740	39774839	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
7	40012803	40012892	4	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
7	41694513	41694606	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
7	43634288	43634352	3	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	43641803	43641877	3	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	43641950	43642005	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	43901430	43901493	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	44059563	44059645	2	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
7	44252031	44252124	4	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
7	44265932	44265988	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
7	44635126	44635158	2	1	1	1	1	1	1	1	0	0	0	1	-	1	1	1	1	1	1	1	1	1	1
7	44663640	44663737	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1

7	44663697	44663762	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
7	44663704	44663802	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
7	44997487	44997542	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	45196688	45196693	2	1	0	0	1	0	0	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1	1
7	47292852	47292897	3	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	47400876	47400955	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
7	47433103	47433176	4	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1
7	47811369	47811448	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
7	47839485	47839513	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
7	47933536	47933544	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
7	47937948	47938034	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
7	48050031	48050057	3	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1
7	50471005	50471044	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	0	1	1	1
7	53414749	53414832	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	55348215	55348294	4	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	55469166	55469210	4	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
7	55473131	55473181	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
7	55515285	55515377	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
7	55519047	55519146	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
7	55519852	55519927	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
7	55537489	55537556	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
7	55559878	55559930	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
7	55570618	55570644	2	1	0	0	1	0	0	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1	1
7	55971117	55971197	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	55971189	55971285	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	55971262	55971309	3	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	56047696	56047729	2	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	56286092	56286148	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	56371140	56371224	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	63758558	63758606	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	64672550	64672623	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
7	64954928	64954972	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	65922338	65922407	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	66056431	66056524	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
7	66751218	66751275	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
7	69872004	69872022	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	70416714	70416734	4	1	1	1	1	1	1	1	1	1	1	1	1	-	1	1	0	1	0	0	1	1	1
7	70645938	70645980	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1	1	0	1	1	1	1
7	70788513	70788611	5	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	70833373	70833378	2	1	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	71102331	71102379	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	72269064	72269080	2	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	1	0
7	72619508	72619574	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	72807009	72807060	2	1	1	1	1	1	1	-	1	1	0	0	1	1	0	1	1	0	1	1	1	0	1
7	72818883	72818948	3	1	1	1	1	1	0	-	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
7	73009013	73009112	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	73009477	73009535	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	73304230	73304290	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
7	73375014	73375082	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	73521497	73521526	2	-	0	0	0	-	-	-	0	1	0	-	-	-	0	0	0	0	0	0	-	0	0
7	74098093	74098149	3	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	0
7	74099451	74099530	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
7	74121614	74121713	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
7	74121637	74121723	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	0	1	1	1
7	74141566	74141647	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
7	74151468	74151542	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
7	74151874	74151948	6	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
7	74202007	74202072	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	74212928	74212980	3	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	0	1	1	0	1
7	74241913	74241948	3	1	1	1	1	1	1	1	1	0	0	0	1	0	0	1	0	1	0	0	1	0	1

7	74265484	74265575	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
7	74299719	74299730	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	0	1
7	74317859	74317931	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
7	74317918	74317997	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
7	74317961	74318060	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
7	74463783	74463818	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
7	74568507	74568581	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
7	74594819	74594870	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
7	74656343	74656413	4	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	74661137	74661167	4	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	1	0	0	0
7	74666847	74666936	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	0	1	0	1	1	1	1
7	74692104	74692145	5	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	74897675	74897717	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	74897683	74897774	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	74897697	74897794	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	74988547	74988601	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	74999805	74999857	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	74999903	74999992	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	74999907	75000008	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75000637	75000728	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75000951	75000973	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75001144	75001196	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75003836	75003903	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75003974	75004061	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75005612	75005709	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75008343	75008436	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75008445	75008537	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75009116	75009209	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75009291	75009355	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75011595	75011669	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75011651	75011693	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75014901	75014958	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75015669	75015763	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75015749	75015839	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75015783	75015876	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75017099	75017188	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75017966	75018052	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75019860	75019902	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75020071	75020142	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75021267	75021325	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75022617	75022715	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75022666	75022755	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75023029	75023106	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75026335	75026434	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75026440	75026491	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75027108	75027179	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75027613	75027687	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75027980	75028066	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75029657	75029728	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75030235	75030276	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75030392	75030445	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75030666	75030758	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75031962	75032053	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75032047	75032082	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75032227	75032299	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75032417	75032494	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75032759	75032844	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75034446	75034504	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75034469	75034555	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75035861	75035945	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0

7	75036608	75036670	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75037184	75037255	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75037950	75038007	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75038281	75038365	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75038336	75038414	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75038885	75038967	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75038937	75038991	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75038942	75038999	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75038984	75039055	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75039052	75039101	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75039169	75039247	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75039275	75039324	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75039527	75039616	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75039659	75039678	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75039786	75039883	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75042479	75042573	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75042502	75042593	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75042570	75042623	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75042590	75042684	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75042714	75042793	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75042747	75042827	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75042824	75042918	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75042881	75042968	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75042915	75043012	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75042998	75043084	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75043069	75043156	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75043103	75043187	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75043588	75043677	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75043600	75043689	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75043674	75043709	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75043904	75043951	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75044113	75044147	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75045154	75045253	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75045538	75045620	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75045695	75045780	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75045777	75045871	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75045868	75045924	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75045915	75046006	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75046003	75046094	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75046236	75046332	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75046290	75046387	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75046329	75046407	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75046394	75046480	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75046820	75046885	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75046824	75046922	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75046870	75046925	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75046919	75046990	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75046979	75047045	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75047190	75047250	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75047201	75047258	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75047414	75047513	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75047508	75047572	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75048180	75048263	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75048260	75048350	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75048323	75048420	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75048417	75048508	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75048433	75048516	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75048582	75048659	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75048699	75048792	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75052128	75052172	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0

7	75052260	75052349	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75052330	75052372	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75052346	75052439	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75052436	75052518	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75052490	75052568	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	75053951	75054049	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75055405	75055468	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75056670	75056750	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75057312	75057410	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75057405	75057446	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75057443	75057531	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75057511	75057605	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75058481	75058579	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75058567	75058661	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75058576	75058667	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75058626	75058716	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75058664	75058743	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75059286	75059333	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75059324	75059419	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75059416	75059469	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75059430	75059516	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75059513	75059565	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75059550	75059632	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75059871	75059965	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75060626	75060684	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75061027	75061054	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75062958	75063052	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75063781	75063853	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75140676	75140769	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75140692	75140785	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75140721	75140813	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75140732	75140823	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75140782	75140825	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75499059	75499086	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75499252	75499343	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	75745598	75745663	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1
7	75745606	75745671	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1
7	75804528	75804598	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1
7	75920608	75920681	4	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
7	75920624	75920714	4	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
7	75920711	75920761	3	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
7	75954033	75954098	6	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0
7	75968152	75968205	3	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1
7	75979194	75979235	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1
7	75998685	75998777	3	1	0	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
7	76421212	76421232	3	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	0
7	76953108	76953117	2	1	1	-	1	1	1	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	77240717	77240798	2	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1
7	77244709	77244715	2	1	1	1	1	1	1	0	1	0	0	0	1	1	1	1	1	1	1	1	0	1
7	77336754	77336779	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
7	77434397	77434452	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
7	77534614	77534645	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	77831778	77831837	4	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
7	77906775	77906864	6	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1
7	77906838	77906904	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1
7	77906893	77906987	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1
7	77984785	77984840	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	81556517	81556528	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	82642301	82642357	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	87747476	87747572	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1

7	88410176	88410232	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	92574766	92574831	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	93246076	93246148	3	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
7	93246113	93246184	3	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	95100996	95101055	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	96149762	96149796	3	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	98121972	98121998	4	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
7	98126406	98126482	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
7	98135359	98135460	2	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1
7	98169413	98169427	3	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
7	98206759	98206858	4	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1
7	98219618	98219701	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
7	98347500	98347543	3	1	1	0	1	1	0	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
7	98347705	98347733	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
7	98406649	98406706	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
7	98406703	98406748	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
7	98703044	98703072	4	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
7	98703058	98703115	6	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
7	98882454	98882553	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	98930525	98930604	4	1	0	0	1	0	0	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
7	98930601	98930699	4	1	0	1	1	0	0	1	1	1	1	1	1	1	1	1	1	0	1	0	1	1
7	98931262	98931348	3	1	0	0	1	0	0	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
7	98994245	98994307	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
7	98994391	98994473	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
7	99016238	99016290	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
7	99373531	99373552	2	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	99622995	99623059	4	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	100123857	100123938	6	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
7	100123895	100123991	6	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
7	100123984	100124070	4	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
7	100148063	100148114	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1
7	100269719	100269802	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
7	100352611	100352628	2	1	1	1	0	-	0	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1
7	100379537	100379601	4	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
7	100398675	100398727	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1
7	100458874	100458883	2	1	0	0	1	0	0	1	1	1	1	1	1	-	1	1	1	1	0	1	1	1	1
7	100532831	100532909	4	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
7	101091911	101091938	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	101091921	101091961	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	101130081	101130086	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1
7	101241201	101241272	5	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
7	101241255	101241291	5	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
7	101665846	101665894	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	101665879	101665944	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	101673722	101673795	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	101679736	101679819	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	101694939	101694974	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	101694959	101695007	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	101748364	101748392	4	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	101871738	101871757	3	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0	1	0	1	1	1	1	1
7	101956237	101956285	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
7	102044678	102044746	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
7	102211816	102211913	6	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
7	102279092	102279171	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
7	102347832	102347917	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	102347860	102347956	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	102347869	102347961	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	102347904	102348002	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	102347953	102348010	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	102348068	102348126	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0

7	102348443	102348527	10	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	102355922	102355981	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	102426533	102426627	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
7	102436795	102436845	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1
7	102442069	102442155	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1
7	102443370	102443429	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0	1	0	0	1	1	1
7	102443768	102443833	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	102446555	102446607	6	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1
7	103152483	103152584	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
7	105003471	105003484	2	0	0	0	0	0	0	1	1	0	0	0	1	0	1	0	1	1	0	1	0	0	0
7	105101963	105101996	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
7	105324714	105324814	4	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	1
7	105773733	105773804	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
7	106107477	106107572	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
7	106258903	106258946	3	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	106258964	106259055	2	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	106286526	106286599	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
7	106286546	106286629	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
7	107630738	107630785	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
7	107914155	107914186	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	108128693	108128771	3	1	1	1	1	0	1	0	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
7	108469267	108469339	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
7	111283901	111283967	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	111495607	111495617	2	1	1	1	1	1	1	-	1	1	0	0	1	1	0	1	1	0	1	1	1	1	1
7	112124208	112124260	3	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	1
7	114921437	114921470	3	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	116153338	116153417	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
7	116498634	116498653	4	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	116635627	116635660	2	1	1	1	1	1	1	1	1	1	1	1	-	1	1	1	1	1	1	-	1	1	1
7	117010871	117010884	3	1	-	1	1	0	1	1	1	1	1	1	1	-	1	1	1	1	0	1	1	1	1
7	120959730	120959808	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	124808715	124808721	2	1	1	1	1	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1	1	1	1
7	127685952	127685995	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
7	127929226	127929277	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
7	128431315	128431380	3	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1
7	128743613	128743627	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	1
7	128959415	128959477	3	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	128962226	128962291	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	129205303	129205389	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
7	129205740	129205839	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
7	129249517	129249617	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	129536361	129536368	2	1	1	1	0	0	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
7	129543355	129543398	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
7	129621812	129621887	6	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	129868510	129868567	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	129895804	129895834	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1	1
7	130084597	130084649	5	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
7	130150721	130150770	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1	1
7	130367316	130367414	4	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
7	130367411	130367437	3	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
7	130373978	130374072	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	130393963	130394026	3	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	1
7	130590379	130590414	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	130651556	130651604	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	130958635	130958662	2	1	0	0	1	0	0	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1	1
7	135901541	135901642	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
7	137995611	137995630	4	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
7	138008502	138008533	2	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
7	138903633	138903727	5	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
7	138903675	138903760	4	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1

7	138984502	138984536	2	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	139093737	139093813	4	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
7	139118664	139118701	2	1	1	1	1	1	1	-	1	1	0	0	1	1	0	1	1	0	0	1	1	0	1
7	139186961	139187027	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	139251967	139251979	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	139700368	139700457	3	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	-
7	139700659	139700728	3	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	-
7	139701047	139701128	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	-
7	139771453	139771503	4	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	1	0	1	1	0	0
7	139771468	139771562	3	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	1	0	1	1	0	0
7	139771559	139771644	3	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	0	1	1	0	0
7	139771584	139771667	3	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	0	1	1	0	0
7	140162187	140162251	4	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
7	140173081	140173165	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	140322479	140322499	3	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	140403004	140403037	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	140452757	140452846	3	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	140494942	140495005	4	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	0	0	1	1	0	1
7	140905894	140905950	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	141649659	141649704	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
7	143311046	143311072	2	1	0	0	0	0	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
7	143391694	143391727	4	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1
7	144825665	144825676	2	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1	1
7	148502164	148502255	3	1	0	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
7	149173142	149173223	5	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
7	149499185	149499231	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
7	149720796	149720809	2	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
7	149854728	149854816	4	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0
7	150407872	150407893	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
7	150407948	150408004	9	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
7	150408012	150408055	7	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
7	150408962	150409050	6	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
7	150748019	150748077	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	0
7	150950920	150950940	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	150951642	150951687	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	150957435	150957521	8	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	151015060	151015086	3	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1	1
7	151142836	151142916	6	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	151142983	151143080	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	151249381	151249410	7	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	151516028	151516067	2	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	0	1	1	1	1	1
7	151589652	151589708	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
7	151706978	151707026	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
7	151707189	151707232	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
7	151710247	151710324	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
7	151725049	151725106	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
7	151747428	151747473	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1	1
7	151755254	151755274	2	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	1	1	1	1	0	1
7	151770176	151770271	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	151808986	151809009	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1
7	151844345	151844350	2	1	1	1	1	1	1	1	1	-	0	0	1	1	1	1	1	1	1	1	1	0	1
7	151844374	151844394	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	1
7	151863794	151863868	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
7	151955304	151955381	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
7	152027706	152027719	3	1	1	1	0	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
7	152027879	152027953	2	1	1	1	0	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
7	152028163	152028178	2	1	1	1	0	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
7	152667266	152667363	6	1	1	1	1	1	1	1	1	0	1	0	1	1	0	1	1	1	1	1	1	1	1
7	154097415	154097430	2	1	1	1	1	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-	1	1
7	155193473	155193485	2	1	1	1	1	1	1	1	1	0	1	0	-	1	1	1	1	1	1	1	1	0	1

7	155198334	155198365	3	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1
7	155200174	155200186	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	155294340	155294392	4	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	1	1	1	1	1
7	155739910	155739959	4	0	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	155756573	155756597	3	1	1	1	1	1	1	1	1	0	0	0	1	-	0	1	0	1	0	1	1	1
7	155947284	155947346	3	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	156154982	156155056	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	156666640	156666727	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	156919462	156919472	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	157137839	157137861	5	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	157137848	157137865	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	157177427	157177438	2	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
7	157177735	157177771	2	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
7	157853957	157854011	4	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1
7	158633151	158633238	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	158650869	158650895	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	158701868	158701891	3	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	158904383	158904462	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	159026534	159026540	2	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	665083	665179	6	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	665118	665191	6	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	665188	665272	5	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	665223	665317	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	673378	673462	8	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	1	1	1	0	1
8	673387	673486	8	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	1	1	1	0	1
8	673433	673534	9	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	1	1	1	0	1
8	673454	673549	7	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	1	1	1	0	1
8	673459	673558	7	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	1	1	1	0	1
8	673483	673580	9	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	1	1	1	0	1
8	673531	673601	8	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	1	1	1	0	1
8	673546	673645	10	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	1	1	1	0	1
8	673555	673649	10	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	1	1	1	0	1
8	673594	673690	8	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	1	1	1	0	1
8	687856	687872	4	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
8	687890	687960	6	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
8	687971	688001	4	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
8	687984	688005	4	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
8	688045	688060	6	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
8	688049	688095	6	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
8	688166	688193	5	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
8	1785465	1785524	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	1792065	1792082	2	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	1922494	1922562	5	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	0	1
8	2008966	2009004	5	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	0	1
8	2024045	2024141	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	2024115	2024212	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
8	2024162	2024246	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
8	2024226	2024267	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	4991655	4991673	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
8	6480803	6480849	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	6564129	6564224	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	7259532	7259612	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	7282042	7282099	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	7289664	7289703	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	7289666	7289721	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	7733384	7733433	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	8242381	8242480	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1
8	8374797	8374847	4	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1
8	8374844	8374943	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1
8	8376260	8376328	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1

8	8496267	8496312	3	1	0	0	1	0	0	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1	1
8	8963339	8963367	3	0	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
8	9669244	9669292	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	9720357	9720448	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
8	10150108	10150180	3	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1
8	10150150	10150214	3	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1
8	10150288	10150364	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	10153424	10153490	3	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1
8	10827063	10827152	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
8	11321292	11321339	3	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	11411377	11411441	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
8	11460489	11460506	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
8	11508225	11508240	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1	1	1
8	11784029	11784037	2	1	1	1	1	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1	1	1	1
8	11886356	11886407	4	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
8	11887475	11887502	3	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	1	1	1	1	0	1
8	11898672	11898684	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	1
8	12205943	12206033	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	12205948	12206047	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	12206044	12206128	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	13798942	13798978	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	19262592	19262671	2	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1
8	20186258	20186314	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
8	21682664	21682721	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
8	22069165	22069221	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
8	22139444	22139464	2	1	0	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
8	22405576	22405628	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
8	22405675	22405750	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
8	22548823	22548835	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1
8	22561107	22561127	3	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
8	22724148	22724164	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	1
8	22882557	22882584	3	1	1	1	1	0	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
8	23221936	23221979	4	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	23422800	23422883	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
8	23567629	23567669	3	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	1
8	26395765	26395784	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	26441396	26441451	3	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
8	26587763	26587802	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
8	26587903	26587996	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	26611736	26611760	3	1	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	0
8	27283595	27283614	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
8	27363905	27363959	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
8	27988476	27988519	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
8	28106463	28106520	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	28141915	28141985	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
8	28339354	28339448	5	1	1	1	1	1	1	0	1	0	0	0	1	0	0	1	0	0	0	1	1	0	1
8	28773573	28773616	4	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
8	29011440	29011537	3	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	1	1	1	1	0	1
8	29079323	29079363	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1
8	29632120	29632216	4	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
8	29632270	29632336	3	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
8	30069428	30069433	2	-	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	30077568	30077632	5	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
8	30247742	30247757	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	30247750	30247777	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	30804397	30804428	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	31147607	31147670	3	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	33679229	33679263	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	37331934	37331942	3	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	1
8	37553667	37553755	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1

8	38013064	38013160	3	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
8	38126769	38126842	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	38277337	38277426	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1
8	38672823	38672877	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
8	38786014	38786076	3	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0
8	38946440	38946473	2	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	0	1
8	38946470	38946488	2	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	0	1
8	41237700	41237761	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
8	41797038	41797116	3	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
8	42004642	42004698	4	1	0	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
8	42154305	42154348	3	0	0	0	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
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8	42277147	42277207	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1
8	42484793	42484888	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0
8	42722318	42722323	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	43103583	43103603	3	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	1	1	1	0	1
8	43191504	43191597	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	43191799	43191845	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	47250120	47250168	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	47306429	47306438	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1
8	47352800	47352853	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
8	47361964	47362040	3	1	1	1	1	1	0	1	1	1	1	1	1	0	1	0	1	1	0	1	1	1
8	47704583	47704588	2	1	1	1	1	1	0	1	1	1	1	1	-	1	1	1	1	1	1	1	1	1
8	47713508	47713594	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
8	47831781	47831839	3	1	0	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
8	47831820	47831916	7	1	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	47831886	47831963	9	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	47831913	47832000	6	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	47831997	47832047	4	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	47832029	47832122	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	47878205	47878264	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
8	47894576	47894637	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1
8	47894610	47894690	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1
8	47901345	47901430	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1
8	47936372	47936461	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	47936413	47936501	5	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	47936474	47936517	3	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	52156970	52157011	3	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
8	53503312	53503367	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
8	53801846	53801893	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
8	53844571	53844638	4	0	0	0	1	0	0	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1
8	53914703	53914787	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
8	55840232	55840333	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1
8	55840364	55840375	3	1	1	1	1	1	1	1	1	1	1	1	1	-	1	1	0	1	0	1	1	1
8	55940768	55940841	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
8	56210629	56210654	2	-	-	0	0	0	-	0	-	1	0	0	-	-	0	0	0	0	0	0	-	0	0
8	58762957	58763027	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	58845999	58846021	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	58924991	58925044	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	59422299	59422338	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	59960782	59960828	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
8	60690782	60690860	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1
8	60690854	60690949	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1
8	60690946	60690995	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1
8	60781291	60781348	3	1	1	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	60865806	60865815	2	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	60867821	60867827	2	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	60868492	60868507	2	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	60910406	60910422	3	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
8	60910453	60910470	3	0	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0

8	61721608	61721662	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	0	1	1	0	0
8	61726153	61726176	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1
8	61760094	61760101	2	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1
8	65736202	65736280	3	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	65743892	65743897	2	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1	1
8	65765404	65765447	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	65942258	65942263	2	1	1	0	0	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
8	66002099	66002150	3	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	66249678	66249704	2	1	1	1	1	0	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
8	66513970	66514016	2	1	0	0	1	0	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
8	66703720	66703807	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	66703764	66703836	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	66703817	66703910	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	70013599	70013657	3	1	0	0	1	0	0	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1	1
8	70142423	70142428	2	1	0	0	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
8	70466155	70466179	3	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	1	1	1	1	0	1
8	70468956	70468983	3	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
8	70631531	70631566	3	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
8	70675011	70675021	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	71841430	71841448	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	71841650	71841711	7	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	71841712	71841758	5	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	73077256	73077352	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
8	73077281	73077372	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
8	73077356	73077383	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
8	73328016	73328113	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
8	74299002	74299011	2	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	80158596	80158681	6	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
8	80488256	80488267	2	-	0	0	0	0	1	0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0
8	80921862	80921916	3	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
8	80921913	80921991	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
8	81797082	81797141	2	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
8	85016665	85016713	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	85125479	85125543	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
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8	85805008	85805046	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	85815843	85815930	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	85815924	85815992	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	86088721	86088744	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	86088741	86088790	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	87203122	87203140	2	1	1	1	1	1	1	1	1	1	1	1	-	-	1	1	1	1	1	1	1	1	0
8	90546501	90546560	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	92433261	92433283	2	1	1	1	1	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1	1	1	1
8	93805040	93805135	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
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8	94383176	94383243	3	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	94439695	94439704	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	95006082	95006125	4	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
8	95115864	95115910	3	1	1	1	1	1	1	1	1	0	0	1	1	0	1	1	1	1	0	1	1	1	1
8	95116068	95116126	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
8	95167780	95167868	7	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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8	96959526	96959546	2	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1
8	97848217	97848261	2	1	0	0	1	0	0	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1	1
8	97874447	97874500	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
8	98490772	98490785	2	1	1	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
8	98826749	98826801	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	98827060	98827112	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
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8	99372106	99372169	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	100303720	100303757	3	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	100504232	100504273	3	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	100515307	100515381	3	1	0	0	1	0	0	0	1	1	1	1	1	0	1	1	1	0	0	1	0	1	1
8	102151335	102151415	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	102472490	102472500	2	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	102478480	102478487	2	1	1	-	1	1	1	1	1	1	1	1	1	-	1	1	1	1	1	1	0	1	1
8	102531188	102531210	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
8	102556515	102556606	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
8	102659503	102659542	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
8	102659662	102659760	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
8	102660755	102660770	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
8	102768015	102768112	4	0	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
8	103466306	103466323	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	103838606	103838648	2	-	1	1	1	1	1	1	-	1	1	1	-	1	1	1	1	1	1	1	1	1	1
8	103916210	103916298	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
8	106761280	106761371	4	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	0	1	1	0	1
8	109574886	109574982	8	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1	1
8	115185741	115185780	3	1	0	0	1	0	0	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1	1
8	115485634	115485669	2	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
8	115667429	115667519	5	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	115667537	115667566	5	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	115753314	115753330	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	116112244	116112251	2	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	0	1
8	117982166	117982239	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
8	118194294	118194318	2	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	118254492	118254533	2	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1
8	119601837	119601894	4	1	1	1	1	1	1	1	1	0	0	0	1	0	0	1	1	1	0	1	1	0	1
8	120541213	120541272	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
8	122887250	122887268	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	122910615	122910702	4	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	122920703	122920800	4	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	122920733	122920825	3	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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8	122921133	122921142	2	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	123325899	123325995	2	1	1	1	1	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1	1	1	1
8	124271423	124271447	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	124271564	124271655	4	1	1	1	1	1	1	1	1	0	0	1	0	1	1	1	1	1	1	1	1	1	0
8	124617323	124617366	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1
8	124664230	124664328	4	1	1	1	1	1	1	1	0	1	1	1	0	1	1	1	1	1	1	1	1	1	1
8	124761769	124761822	4	1	1	1	1	1	1	1	1	1	1	1	1	-	1	1	1	1	0	1	1	1	1
8	125340207	125340303	4	1	0	0	1	1	0	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1	1
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8	125374019	125374030	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	1
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8	125554116	125554209	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
8	127566820	127566906	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
8	127674756	127674841	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
8	127809847	127809944	3	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	127811971	127812014	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
8	127899423	127899481	2	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	0
8	127986267	127986346	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
8	128043517	128043543	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	1
8	128079950	128079977	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
8	128095747	128095831	6	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	128105872	128105904	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
8	128109530	128109622	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1

8	128109601	128109641	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
8	128109636	128109731	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
8	128176579	128176595	2	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	0
8	128540172	128540182	2	1	-	0	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
8	128543654	128543735	4	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1
8	128559226	128559292	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	128559241	128559333	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	128559289	128559344	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	128559338	128559434	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	128598122	128598178	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	128627658	128627703	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
8	128671360	128671426	4	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	129157979	129158000	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	129406059	129406089	2	1	1	1	1	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1	1	1	1
8	129683674	129683775	5	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
8	129988223	129988259	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
8	129988287	129988318	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
8	130006216	130006264	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
8	130037330	130037393	3	1	1	1	1	1	1	1	1	0	0	0	1	0	1	1	1	1	0	1	1	1	1
8	130079633	130079702	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
8	130490953	130490991	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
8	131816013	131816021	2	1	1	1	1	1	1	1	1	0	0	0	1	-	0	1	1	0	0	1	1	0	1
8	131856806	131856814	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	0
8	131986508	131986556	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
8	132822194	132822275	3	1	1	0	1	1	0	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
8	133237537	133237549	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
8	134501533	134501632	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	138193135	138193185	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
8	140450455	140450525	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	140509586	140509684	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
8	140513465	140513500	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
8	140513591	140513691	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
8	140513634	140513694	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
8	140513645	140513744	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
8	140513688	140513748	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
8	140515509	140515604	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
8	140559077	140559097	2	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1
8	140561836	140561906	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	140588827	140588899	8	0	0	0	0	0	0	1	1	0	0	0	1	0	1	1	1	1	0	1	0	0	0
8	140588981	140589067	5	0	0	0	0	0	0	1	1	0	0	0	1	0	1	0	1	1	0	1	0	0	0
8	140589336	140589371	4	1	1	0	1	1	0	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1	0
8	140599329	140599375	3	0	1	1	0	1	1	0	0	0	0	0	0	1	0	0	0	0	1	0	1	0	1
8	140718052	140718130	3	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	141093875	141093950	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
8	141109177	141109236	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1
8	141110140	141110235	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
8	141144087	141144140	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
8	141154198	141154271	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	141179015	141179079	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
8	141209269	141209347	6	1	1	1	1	1	1	0	1	0	0	0	1	1	0	0	1	0	1	1	1	0	1
8	141233054	141233145	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	141264219	141264304	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	141264341	141264431	6	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	141282953	141282992	4	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1
8	141283202	141283299	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	141341486	141341545	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
8	141393051	141393139	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
8	141885418	141885516	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	142661538	142661629	3	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	142661624	142661661	3	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1

8	142988398	142988411	4	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	143174230	143174260	5	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	143249935	143250022	4	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	143250034	143250125	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	143271284	143271378	3	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
8	143294284	143294320	2	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
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8	143462418	143462507	5	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1	1
8	143469828	143469833	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
8	143515099	143515199	6	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
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8	143978781	143978876	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
8	144109448	144109495	5	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	144136193	144136276	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144139209	144139291	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144139377	144139457	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144139785	144139869	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144140623	144140671	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144140872	144140960	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144141568	144141640	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144141942	144141998	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144141983	144142059	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144142040	144142133	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144142572	144142671	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144142881	144142946	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144142909	144143007	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144143004	144143075	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144143038	144143106	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144143531	144143622	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144143787	144143876	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144149123	144149190	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144151334	144151423	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144151372	144151460	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
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8	144153798	144153887	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144155066	144155113	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144155169	144155264	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144155777	144155860	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144155891	144155978	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
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8	144198099	144198137	3	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	144235381	144235463	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144236252	144236347	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144236461	144236532	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144236990	144237064	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144237146	144237244	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144237241	144237333	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
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8	144237421	144237482	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144237630	144237717	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144237801	144237893	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144238396	144238448	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144238603	144238687	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144238684	144238775	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0

8	144238719	144238817	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144238772	144238821	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
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8	144238872	144238970	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144238967	144239006	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
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8	144239073	144239171	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144239331	144239396	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144239457	144239531	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144239588	144239667	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144239646	144239725	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144239953	144239998	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144239987	144240086	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144239992	144240088	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144240085	144240171	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144240317	144240375	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144240441	144240535	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144240575	144240658	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144240693	144240770	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144241336	144241414	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144241354	144241446	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144241435	144241533	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144242432	144242528	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144242446	144242542	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144242525	144242572	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144242672	144242768	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
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8	144243436	144243485	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
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8	144243764	144243824	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144243884	144243982	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144243907	144243990	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144243969	144244027	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144243987	144244082	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144244014	144244101	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
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8	144244320	144244404	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
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8	144244423	144244503	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
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8	144246418	144246462	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
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8	144247499	144247594	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144247539	144247630	10	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
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8	144249652	144249750	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144249747	144249815	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144249778	144249842	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
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8	144250198	144250294	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
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8	144253067	144253115	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
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8	144253268	144253367	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144253318	144253377	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144253535	144253607	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144253638	144253720	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144254076	144254132	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144254337	144254400	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0
8	144254719	144254782	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144254739	144254838	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
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8	144255008	144255103	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
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8	144256703	144256721	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
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8	144257253	144257283	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144257792	144257870	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144258795	144258840	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144261214	144261263	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144261319	144261407	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144262920	144263019	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144262947	144263022	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
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8	144263313	144263394	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144263925	144263999	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
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8	144264023	144264114	10	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144264086	144264143	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144264133	144264204	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
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8	144264232	144264331	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
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8	144272200	144272296	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
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8	144272502	144272589	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
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8	144276184	144276274	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144276244	144276289	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144276388	144276486	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144276952	144277053	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144277322	144277417	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144277480	144277531	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144277510	144277562	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
8	144315053	144315076	3	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
8	144364655	144364662	2	1	0	0	1	0	0	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1	1
8	144451015	144451080	7	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	144500543	144500593	5	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
8	144546007	144546107	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
8	144546104	144546178	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
8	144579423	144579452	4	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	144581009	144581054	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
8	144612562	144612619	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
9	18052	18114	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
9	19168	19247	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
9	19385	19435	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
9	22522	22609	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
9	140067	140093	4	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9	997605	997640	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
9	1045229	1045240	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
9	2225873	2225897	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9	3898722	3898786	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9	4086615	4086635	2	1	1	1	1	1	1	-	1	0	1	0	-	1	0	1	1	0	1	1	1	1	1
9	4852534	4852607	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9	4866550	4866649	3	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9	4956980	4957076	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
9	4957036	4957084	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0

9	5185436	5185505	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
9	5327223	5327324	5	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9	5920405	5920442	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
9	6768123	6768130	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
9	6807077	6807143	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
9	15228291	15228390	4	1	1	0	1	1	0	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1
9	19103448	19103481	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
9	19140797	19140829	2	1	1	1	1	1	1	1	1	0	0	0	-	1	1	1	1	1	1	1	1	1
9	19157392	19157399	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1
9	19163792	19163802	2	1	1	1	1	1	1	-	1	0	0	0	1	1	0	1	1	1	1	1	1	1
9	19225455	19225489	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1
9	20210503	20210538	4	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9	20604768	20604835	4	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	21029839	21029868	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9	21830893	21830911	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
9	33319054	33319142	3	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1
9	33721777	33721877	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
9	33988788	33988872	3	1	0	0	1	0	0	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1
9	33989139	33989235	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
9	33989224	33989264	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
9	33989240	33989289	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
9	34128439	34128488	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1
9	34128479	34128564	6	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1
9	34128517	34128609	6	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1
9	34141497	34141594	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
9	34151537	34151573	2	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
9	34280090	34280146	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
9	35719121	35719171	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1
9	36152384	36152479	6	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9	36156289	36156350	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1
9	36158107	36158114	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1
9	36458596	36458660	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
9	36465145	36465200	2	1	1	1	1	1	1	0	1	1	1	0	1	1	1	1	1	0	1	1	1	1
9	36492767	36492800	3	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9	36492773	36492816	3	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9	36580306	36580343	4	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
9	37163028	37163095	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1
9	37290528	37290589	3	1	1	1	1	1	1	1	1	1	1	1	1	-	1	1	0	1	0	1	1	1
9	37304512	37304519	2	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
9	37378854	37378919	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
9	37409160	37409176	3	1	0	0	1	0	0	1	1	1	1	1	1	0	1	1	0	1	0	0	0	1
9	37409173	37409217	3	1	0	0	1	0	0	1	1	1	1	1	1	0	1	1	0	1	0	0	0	1
9	37409233	37409281	4	1	0	0	1	0	0	1	1	1	1	1	1	0	1	1	0	1	0	0	0	1
9	37946247	37946333	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1
9	37964518	37964535	2	1	1	1	0	1	0	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0
9	38007375	38007438	3	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1
9	38039048	38039059	3	1	1	1	1	1	1	1	0	1	1	1	0	1	1	1	1	1	1	1	1	1
9	38040242	38040251	2	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1
9	38699701	38699708	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9	39463347	39463382	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
9	39487654	39487722	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
9	39557018	39557070	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
9	39579802	39579894	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
9	39579813	39579906	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
9	39579854	39579921	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
9	39590996	39591055	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
9	40952646	40952727	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
9	41401401	41401456	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
9	42185032	42185089	5	1	1	1	1	1	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1	0
9	42313870	42313911	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0

9	42330050	42330098	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
9	42336757	42336805	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
9	42387271	42387319	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
9	42452957	42453004	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
9	42453150	42453193	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
9	42454735	42454827	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
9	42454792	42454836	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
9	42454799	42454847	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
9	42454833	42454892	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
9	62711406	62711467	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
9	62711440	62711491	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
9	62711442	62711518	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
9	64773688	64773694	2	0	0	-	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	64773709	64773717	3	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	65822174	65822243	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
9	66826843	66826895	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
9	66826847	66826903	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
9	67430892	67430958	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
9	69750656	69750741	2	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
9	70529472	70529522	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
9	71217098	71217173	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
9	71964512	71964535	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
9	72346219	72346253	3	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9	72346230	72346274	4	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9	72597308	72597327	2	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9	75149345	75149381	4	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	0	1
9	77377363	77377382	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
9	77393986	77394065	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
9	78033084	78033130	3	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
9	78033232	78033304	3	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
9	79887388	79887407	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
9	81561648	81561720	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
9	81622889	81622951	5	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9	81655191	81655287	7	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1
9	81655219	81655313	7	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1
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9	81655310	81655405	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1
9	81693292	81693353	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1
9	81842739	81842776	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
9	83511005	83511013	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	0	1	1	0	1
9	83622207	83622226	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
9	83808544	83808579	3	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1
9	84889134	84889193	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
9	86284119	86284166	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9	86369093	86369124	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1
9	87132506	87132561	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
9	87696927	87696937	2	1	0	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9	87974692	87974721	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
9	89070582	89070673	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
9	89418329	89418359	2	0	0	0	0	0	0	0	1	1	1	0	1	0	0	0	0	0	0	0	0	1
9	89426534	89426585	3	1	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	1	1
9	89481585	89481634	3	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
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9	89495663	89495680	3	0	0	-	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
9	89554833	89554867	3	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1
9	89586846	89586864	4	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9	89649138	89649186	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
9	89655286	89655296	2	1	1	1	1	1	1	1	1	0	1	0	1	1	1	1	1	1	1	1	-	1
9	89986590	89986632	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

9	90966842	90966883	3	1	0	0	1	0	0	1	1	1	1	1	1	1	1	1	1	0	1	0	1	1
9	91147064	91147114	2	1	1	1	1	1	1	1	1	0	1	0	1	1	1	1	1	1	1	1	0	1
9	91164799	91164828	3	0	1	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0
9	91164921	91164927	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
9	91717275	91717311	3	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1
9	91866363	91866411	3	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9	92155859	92155915	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
9	93026109	93026203	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
9	93032749	93032813	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0
9	93071575	93071581	2	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9	93110639	93110711	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	0	1	1	1
9	93124948	93125042	6	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9	93124955	93125056	6	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9	93245510	93245572	4	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9	93245529	93245620	4	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9	94667466	94667478	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9	94808258	94808331	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
9	95494072	95494141	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
9	96050969	96050980	2	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9	96477819	96477881	3	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
9	96583552	96583644	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
9	96647035	96647093	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9	98092209	98092214	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9	98092630	98092690	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
9	98142562	98142572	2	1	1	1	1	1	1	0	1	1	1	0	1	1	1	1	1	0	1	1	1	1	1
9	98240785	98240808	2	1	1	1	1	1	1	0	1	1	1	0	1	1	1	1	1	0	1	1	1	0	1
9	98831834	98831879	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
9	99101110	99101134	2	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
9	99263069	99263129	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
9	99797228	99797274	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
9	99983400	99983419	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
9	100101723	100101733	2	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9	100410465	100410521	5	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
9	105052018	105052023	2	0	0	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
9	105432069	105432143	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
9	107750760	107750837	3	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	1	0	1	1	0	0
9	107875868	107875911	2	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	0	1
9	107949221	107949226	2	1	1	1	1	1	1	1	1	1	0	0	1	1	0	1	1	0	1	1	1	0	1
9	108879500	108879582	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
9	109381671	109381694	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
9	109966827	109966890	4	1	1	1	1	1	1	1	1	1	1	1	1	-	1	1	0	1	0	0	1	1	1
9	111903791	111903849	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
9	111986774	111986867	6	1	1	1	1	1	0	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
9	112064594	112064615	3	1	1	1	1	1	1	1	1	0	0	0	1	0	1	1	1	1	1	1	1	0	1
9	112064612	112064652	2	1	1	1	1	1	1	1	1	0	0	0	1	0	1	1	1	1	1	1	1	0	1
9	112073777	112073795	2	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1
9	112803990	112804062	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
9	112809164	112809191	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
9	112818229	112818289	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
9	113472120	113472165	2	1	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9	113472166	113472208	2	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9	113522994	113523056	2	1	1	1	0	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
9	113605186	113605233	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9	113618453	113618493	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1	1
9	113985420	113985512	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
9	114369930	114369939	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1
9	114566526	114566615	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
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9	116465378	116465450	6	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9	120918104	120918146	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1

9	121146157	121146217	2	1	1	1	1	1	1	0	1	1	1	1	-	1	1	1	1	1	1	1	1	1
9	121267395	121267477	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
9	121279773	121279811	2	1	1	1	1	1	1	0	1	0	0	0	1	1	1	1	1	1	1	1	1	0	1
9	121734203	121734247	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
9	121734232	121734251	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
9	121736638	121736708	6	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	121736783	121736865	6	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
9	123035243	123035313	3	1	1	1	1	1	1	0	0	0	0	0	-	1	0	1	0	0	1	1	1	0	1
9	123089783	123089873	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
9	123096485	123096545	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
9	123271526	123271567	3	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9	123304026	123304108	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
9	123317448	123317505	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
9	123471737	123471808	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
9	123548481	123548528	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	1
9	123556644	123556725	5	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9	124178946	124178987	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
9	124254400	124254431	3	1	0	0	1	0	0	1	1	0	0	0	1	0	0	1	0	1	0	1	0	0	1
9	124279425	124279524	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
9	124309691	124309755	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
9	124309727	124309810	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
9	124355454	124355536	3	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
9	124385356	124385412	3	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9	124392338	124392435	4	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
9	124625402	124625477	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
9	124633294	124633361	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
9	125262898	125262994	3	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
9	125328889	125328920	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
9	126364243	126364310	5	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1
9	126421902	126421916	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
9	126472870	126472887	2	1	1	1	0	1	1	0	1	1	1	1	1	1	0	1	1	0	1	1	1	1	1
9	126487697	126487763	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
9	126487990	126488055	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
9	126499545	126499585	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	126504267	126504360	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
9	126838962	126838983	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
9	127411982	127411991	2	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1
9	127542023	127542029	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	1
9	127563055	127563100	3	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	0
9	127563178	127563187	2	1	1	1	1	1	1	1	1	-	0	-	1	1	1	1	1	1	1	1	1	0	1
9	127581447	127581521	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
9	127591380	127591432	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
9	127720346	127720413	4	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9	127749579	127749637	5	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
9	127836849	127836858	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	1
9	127841613	127841656	2	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9	127866667	127866722	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
9	127866717	127866787	6	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
9	127866767	127866861	7	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
9	127907585	127907662	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9	127963394	127963415	3	0	0	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1	1
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9	127984321	127984409	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
9	128052384	128052456	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
9	128097674	128097681	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1
9	128103204	128103240	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
9	128143209	128143260	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
9	128169609	128169689	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9	128330296	128330353	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1

9	128392428	128392468	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
9	128392619	128392685	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
9	128393178	128393185	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1
9	128682835	128682920	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1
9	128910873	128910890	3	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9	129059875	129059924	5	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1
9	129227236	129227310	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
9	129343869	129343955	5	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0
9	129458500	129458543	4	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
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9	129811972	129812022	4	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
9	129878372	129878423	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9	129883107	129883176	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9	129883157	129883211	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9	129920278	129920372	3	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1
9	129934829	129934875	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	0	1	1	0	1
9	129981364	129981381	2	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1
9	129984751	129984765	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
9	130001070	130001130	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
9	130006541	130006603	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
9	130009755	130009845	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
9	130031763	130031812	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
9	130031907	130031955	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
9	130117954	130118044	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9	130137292	130137335	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
9	130321226	130321304	7	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	-
9	130814263	130814282	3	1	0	0	1	0	0	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
9	130814602	130814645	3	1	0	0	1	0	0	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
9	131252714	131252750	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
9	131345355	131345366	2	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
9	131423162	131423223	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0
9	131603379	131603426	5	1	1	1	1	1	1	-	1	0	0	0	1	1	0	1	1	0	1	1	1	-	1
9	131628629	131628635	2	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1	1
9	131661250	131661306	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
9	131689788	131689831	5	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
9	131720548	131720598	3	1	0	0	1	0	0	1	1	1	1	1	1	0	1	0	0	1	0	1	1	1	1	1
9	131725550	131725607	2	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	0	1	1
9	131738502	131738598	3	1	0	0	1	1	0	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1	1
9	131860862	131860882	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	0	1	1	1	1
9	132048691	132048756	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1
9	132067749	132067766	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9	132383731	132383772	2	1	1	1	0	1	1	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	1
9	132384724	132384761	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1	1
9	132888155	132888253	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1	1
9	132888279	132888352	6	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1	1
9	132888343	132888409	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1	1
9	132888397	132888485	8	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1	1
9	133116016	133116032	2	1	0	0	1	0	0	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1	1	1
9	133129845	133129910	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9	133129974	133130066	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9	133130040	133130118	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9	133132271	133132340	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
9	133441069	133441139	5	1	1	1	1	1	1	1	1	1	1	1	1	1	-	1	1	0	1	0	0	1	1	1
9	133476551	133476579	3	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
9	133483023	133483101	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
9	133618972	133618987	2	1	1	1	0	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
9	133945517	133945539	3	1	0	1	1	1	1	1	1	0	0	0	1	0	0	1	0	1	0	0	1	0	1
9	133954105	133954119	2	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1

9	133954276	133954357	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
9	133954303	133954392	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
9	133954380	133954468	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
9	133954478	133954513	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
9	133968682	133968779	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	0	1	1	1	1
9	133980004	133980032	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1
9	134054692	134054771	3	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1
9	134124028	134124061	2	1	1	1	1	1	1	1	1	0	0	-	1	1	0	1	1	1	1	1	1	-
9	134128703	134128775	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1
9	134137696	134137718	2	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1	1	1	0
9	134142640	134142721	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
9	134149523	134149562	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
9	134175529	134175548	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0
9	134252325	134252419	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
9	134427500	134427591	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
9	134428645	134428721	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
9	134428821	134428920	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
9	134869114	134869153	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1
9	135952098	135952164	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0
9	135977142	135977200	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0
9	136038768	136038828	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
9	136040801	136040835	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
9	136049573	136049650	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
9	136049591	136049674	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
9	136049627	136049707	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
9	136049671	136049752	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
9	136049716	136049773	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
9	136049725	136049787	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
9	136049848	136049926	10	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
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9	136049945	136049981	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
9	136050029	136050127	14	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
9	136050055	136050134	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
9	136050146	136050211	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
9	136050499	136050540	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
9	136054097	136054195	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	0
9	136055175	136055268	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
9	136088850	136088898	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
9	136101695	136101704	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
9	136223885	136223951	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9	136237831	136237864	3	1	1	1	1	1	1	1	0	1	1	1	1	1	1	0	1	1	0	1	1	1
9	136300741	136300838	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	-
9	136317758	136317844	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	-
9	136317894	136317930	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	-
9	136317918	136318010	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	-
9	136317927	136318022	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	-
9	136318007	136318073	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	-
9	136318275	136318320	6	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	-
9	136332173	136332186	3	1	0	0	1	0	0	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1
9	136511818	136511902	6	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
9	136511929	136512005	4	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
9	136512062	136512134	7	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
9	136522255	136522278	5	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
9	136522663	136522694	5	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
9	136572911	136572931	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
9	136625293	136625356	5	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0
9	136650822	136650832	3	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	1
9	136734937	136734983	4	1	0	0	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
9	136902559	136902622	2	0	0	0	0	0	0	1	1	0	0	1	1	0	1	0	0	1	0	1	0	0	0
9	136903651	136903746	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1

9	137034900	137034963	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
9	137058875	137058920	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9	137123368	137123450	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1
9	137123841	137123939	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1
9	137123914	137123961	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1
9	137286737	137286780	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1
9	137389008	137389055	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
9	137398241	137398266	3	1	0	0	1	0	0	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1
9	137408363	137408409	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
9	137414195	137414214	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9	137449290	137449347	6	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9	137514410	137514491	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
9	137514425	137514516	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
9	137514880	137514941	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
9	137521736	137521776	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
9	137541811	137541886	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
9	137608222	137608262	4	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0
9	137678483	137678513	4	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0
9	137715445	137715505	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1
9	137715551	137715604	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1
9	137759188	137759268	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1
9	137825783	137825841	5	1	1	1	1	1	1	1	1	0	0	0	1	0	0	1	0	1	0	1	1	0	1
10	352946	353019	5	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	411803	411839	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
10	936489	936585	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
10	936516	936597	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
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10	943830	943879	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
10	958336	958389	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
10	1897408	1897467	4	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
10	3102057	3102113	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
10	3102066	3102121	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
10	3208913	3208927	3	1	1	1	1	1	1	1	1	0	0	0	1	0	0	1	1	1	0	1	1	0	1
10	3270817	3270849	4	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
10	3331969	3331981	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
10	3525927	3526017	4	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	0
10	3526014	3526060	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	0
10	3526057	3526081	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	0
10	3556228	3556306	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
10	3556283	3556346	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
10	3773057	3773137	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
10	3823086	3823172	3	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
10	3886826	3886882	3	1	1	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	0
10	4033729	4033762	3	1	0	0	1	0	0	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1	1
10	4120262	4120282	2	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1
10	4903097	4903105	2	1	0	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-	1	1
10	5575850	5575895	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
10	5654823	5654896	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
10	5749880	5749933	3	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
10	5754449	5754454	2	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	5840235	5840292	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
10	5862092	5862156	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
10	5895107	5895182	3	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	5904175	5904182	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
10	5975656	5975755	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
10	5975721	5975763	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
10	6001916	6002007	4	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	6006155	6006252	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	6037581	6037638	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
10	6055013	6055044	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1

10	6068549	6068558	2	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
10	6141602	6141614	2	1	0	0	1	0	0	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	0
10	6142412	6142431	3	1	0	0	1	1	0	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
10	6150373	6150423	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	6151883	6151923	4	0	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
10	6196641	6196666	2	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	6207172	6207212	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
10	6260208	6260275	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
10	6275707	6275717	2	1	1	1	1	1	0	1	1	0	0	1	1	1	1	1	1	1	0	1	1	1	1
10	6472035	6472076	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	7190055	7190072	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
10	7192628	7192699	4	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	7192768	7192856	6	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	7192853	7192885	2	0	0	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
10	7464992	7465020	2	1	1	1	1	1	1	1	1	0	1	0	1	1	0	1	1	1	1	1	1	-	0
10	7478149	7478248	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1	1	1	1
10	7570297	7570390	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
10	8070761	8070849	4	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	8330563	8330581	4	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	8330752	8330815	6	1	0	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
10	8330897	8330980	5	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	8339220	8339318	4	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	8767893	8767912	2	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	8897213	8897307	3	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	8897409	8897496	3	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	9002646	9002651	2	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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10	9004867	9004929	5	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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10	9229451	9229531	4	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	11462160	11462222	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
10	11550611	11550690	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
10	11553723	11553822	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
10	11599815	11599882	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
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10	11665019	11665091	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
10	11686029	11686044	2	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	11720541	11720582	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	1
10	11870356	11870404	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
10	11898582	11898638	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0
10	12044358	12044417	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
10	12077756	12077762	2	1	1	1	1	1	1	1	1	1	1	1	1	-	1	1	0	1	0	1	1	1	1
10	12078481	12078544	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1	1	1
10	12293894	12293954	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
10	12461941	12461953	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
10	12491681	12491714	4	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1
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10	13288035	13288042	2	1	0	0	1	0	0	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
10	13288316	13288346	3	1	0	0	1	0	0	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
10	14528305	14528380	3	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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10	14634811	14634820	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	1
10	14692879	14692972	3	1	1	0	1	0	0	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1	1
10	14927026	14927121	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
10	14927146	14927158	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
10	14993723	14993788	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1

10	14996290	14996357	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
10	15123482	15123524	4	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	15141350	15141365	3	0	0	1	0	0	1	1	1	1	1	1	1	-	1	1	0	1	0	0	1	1	1
10	16787386	16787484	7	1	-	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-	1	1
10	16948489	16948558	5	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	16948537	16948605	5	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	17107535	17107624	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
10	17483250	17483263	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
10	17559577	17559643	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
10	17559632	17559698	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
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10	17650995	17651007	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
10	17656965	17657048	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
10	17660476	17660563	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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10	17667101	17667191	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
10	17684081	17684156	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
10	17755201	17755271	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
10	17755245	17755324	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
10	17755442	17755498	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
10	17759795	17759855	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
10	17768537	17768551	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	0
10	17768613	17768621	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	0	0	
10	17782553	17782610	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
10	17782595	17782653	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
10	17808311	17808316	2	1	0	1	1	1	1	1	1	1	1	1	-	-	1	1	1	1	1	1	1	1	0
10	17827550	17827643	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
10	17827589	17827662	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
10	17828326	17828372	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
10	17855224	17855311	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
10	17866684	17866720	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
10	17891416	17891463	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
10	18356974	18357015	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
10	21581247	21581339	6	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
10	21588222	21588320	4	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	22253685	22253735	7	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
10	22572487	22572571	4	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
10	22600361	22600426	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
10	22700570	22700648	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
10	23451078	23451141	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1	1
10	26737233	26737291	2	1	1	0	1	1	0	1	1	1	1	1	1	-	1	1	1	1	0	1	1	1	1
10	26739926	26740016	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
10	26801470	26801505	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1	1	1
10	26969889	26969939	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
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10	26997914	26997989	5	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	28614205	28614268	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
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10	30554033	30554044	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	0	1	1	1	1	0
10	30785394	30785430	4	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	31964617	31964692	5	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
10	32357311	32357371	3	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1
10	33116179	33116262	4	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
10	33118132	33118143	2	1	0	0	1	0	0	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1
10	33153689	33153751	3	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1	1
10	33180347	33180402	4	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	33623735	33623751	2	1	1	1	1	1	1	1	1	0	-	1	1	1	1	1	1	1	1	1	1	1	1
10	35011869	35011884	2	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1

10	35011881	35011929	3	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
10	35019238	35019316	4	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	35132070	35132075	2	1	0	0	1	1	0	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1	1
10	35445274	35445345	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1
10	35822487	35822536	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0
10	38452687	38452758	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
10	43106404	43106470	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
10	43106515	43106556	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
10	43267098	43267122	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
10	43794442	43794494	4	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1
10	45461283	45461301	4	1	1	1	1	1	1	1	1	0	0	0	1	0	1	1	1	1	0	1	1	0	1
10	45463226	45463257	3	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
10	45463355	45463430	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
10	45700066	45700129	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
10	45749262	45749297	3	1	1	1	1	1	1	1	-	1	1	1	-	1	1	1	1	1	1	1	1	1	1
10	45808329	45808420	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
10	45847144	45847221	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
10	45847278	45847354	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
10	45871865	45871920	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
10	45924623	45924712	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
10	45924645	45924736	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
10	45948135	45948208	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
10	45957953	45958007	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
10	45967904	45968001	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
10	45968031	45968130	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
10	45999337	45999390	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
10	45999358	45999454	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
10	45999451	45999500	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
10	45999470	45999552	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
10	46358599	46358644	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
10	46837823	46837910	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
10	46994413	46994490	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
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10	46994575	46994625	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
10	47008753	47008778	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
10	47046701	47046797	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
10	47067036	47067129	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
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10	47183565	47183636	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
10	47255281	47255381	4	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
10	47502079	47502169	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
10	47502088	47502180	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
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10	47502141	47502199	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
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10	47502584	47502611	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
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10	48655614	48655619	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	0
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10	50508577	50508617	2	1	0	0	1	0	0	1	1	1	1	1	1	1	0	1	1	1	1	1	0	1	0	1	1
10	50593024	50593106	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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10	62049338	62049413	6	0	0	0	1	0	0	1	1	0	0	0	1	1	1	1	1	1	1	0	1	0	0	0	
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10	63260619	63260660	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1		
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10	63271322	63271339	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1		
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10	63595058	63595064	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-		
10	63609179	63609236	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1		
10	67761599	67761646	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1		
10	67850283	67850288	2	1	0	0	1	0	0	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1	1		
10	67850513	67850606	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1		
10	68521615	68521696	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	
10	68684606	68684659	3	1	1	0	1	0	0	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1		
10	69006749	69006815	4	1	1	1	1	1	1	0	0	1	1	1	0	1	1	1	1	1	1	1	1	1	1		
10	69313310	69313385	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
10	69347256	69347304	3	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	1	1	1	1	0	1		
10	69360965	69361020	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	0		
10	69443966	69443978	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	1		
10	69455030	69455120	6	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1		
10	70302094	70302172	2	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1		
10	70598912	70599004	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1		
10	70598963	70599049	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1		
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10	70610539	70610550	2	1	1	1	0	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1		
10	71344231	71344246	2	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1		
10	71629078	71629095	2	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1		
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10	71730256	71730290	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	
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10	72083070	72083090	2	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	
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10	72427973	72427992	2	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	
10	72588629	72588643	2	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	1	0	1	1	1	1	1	
10	72589266	72589285	2	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	0	1	1	1	1	1	1	
10	73418055	73418128	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	
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10	74750816	74750840	4	1	1	1	1	0	1	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1	1		
10	75018533	75018594	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1		
10	75033174	75033273	3	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
10	75037342	75037411	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	
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10	75236843	75236917	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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10	77122430	77122501	5	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	77553071	77553094	3	1	1	1	1	1	1	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	78757576	78757586	2	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1
10	78763946	78764031	4	1	0	0	1	0	0	1	1	1	1	0	1	0	1	1	1	1	0	1	0	0	0
10	79247219	79247305	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
10	79249282	79249380	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
10	79268186	79268214	2	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	0	1	1	0	1
10	79269560	79269604	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
10	80207285	80207344	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
10	80533781	80533833	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
10	85166296	85166315	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
10	86925774	86925854	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
10	87487019	87487042	2	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	87761260	87761301	2	1	1	1	1	1	1	0	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1
10	87861601	87861664	3	0	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	88998872	88998939	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
10	88999076	88999111	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
10	90331597	90331616	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
10	91503400	91503432	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
10	92039950	92040000	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
10	92045884	92045908	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
10	92048151	92048247	3	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	1	1
10	92602884	92602959	6	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	92691130	92691146	4	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
10	92974736	92974801	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
10	92974763	92974812	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
10	93591781	93591799	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
10	95237194	95237289	5	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	95237324	95237335	2	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	95419355	95419406	4	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	95432442	95432487	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
10	96380890	96380926	4	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
10	96619205	96619224	2	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	96700234	96700272	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1	1
10	96714127	96714163	2	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	0	1	1	1	1
10	96726856	96726914	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
10	96829576	96829643	3	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	97100909	97100942	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
10	97354182	97354245	3	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
10	97354434	97354525	4	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
10	97509794	97509843	2	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1
10	97653653	97653716	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	1
10	98416868	98416939	3	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	100238666	100238711	3	1	1	0	1	1	0	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
10	101477020	101477103	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	101985667	101985694	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
10	102002632	102002728	4	1	1	1	1	1	1	1	1	0	0	0	1	0	0	1	0	1	0	1	1	0	1
10	102130141	102130214	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
10	102288506	102288575	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
10	102396661	102396742	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
10	102396739	102396802	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
10	102452419	102452430	2	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1

10	102556009	102556086	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	0
10	102610469	102610564	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
10	102711624	102711675	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
10	102914275	102914365	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
10	103467256	103467306	4	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
10	103470434	103470481	4	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1
10	103616967	103617000	3	1	1	1	1	1	1	0	1	0	0	0	1	1	1	1	1	0	1	1	1	0	1
10	103626187	103626217	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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10	103665073	103665078	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
10	104033413	104033492	3	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
10	104324478	104324537	5	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
10	110035876	110035924	3	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
10	110085842	110085873	2	1	1	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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10	110149460	110149540	5	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	110273001	110273098	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
10	110306081	110306123	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
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10	111079400	111079409	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1	
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10	112372621	112372661	4	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	112383495	112383540	2	1	0	-	1	0	0	1	1	0	0	0	1	1	1	1	1	1	0	1	0	0	0
10	112811798	112811897	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
10	113095910	113095943	4	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
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10	113151853	113151895	4	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	1	1	1	1	0	1
10	113309691	113309762	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
10	114497400	114497452	5	1	1	1	1	1	1	1	1	1	1	1	1	-	1	1	1	1	0	1	1	1	1
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10	117371328	117371375	4	1	1	1	1	1	1	0	0	1	1	1	0	1	1	1	1	0	1	1	1	1	1
10	118701219	118701307	3	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	119042562	119042586	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
10	119090085	119090106	2	1	0	1	1	0	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
10	119369683	119369770	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
10	119369813	119369883	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
10	119444893	119444939	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
10	119456071	119456114	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
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10	119504923	119504932	2	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	119506325	119506383	5	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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10	119524318	119524406	5	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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10	119802002	119802075	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
10	119869290	119869298	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1
10	120714658	120714706	4	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
10	123137196	123137231	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
10	124243985	124244035	5	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	124601381	124601408	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
10	124616217	124616231	3	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1

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10	124690130	124690167	4	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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10	126046062	126046086	2	1	1	1	1	1	1	1	1	0	0	0	-	1	1	1	1	0	1	1	1	1
10	126063363	126063433	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
10	126108786	126108813	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
10	126166591	126166627	3	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	126166738	126166780	4	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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10	126905696	126905720	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
10	126905726	126905752	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
10	127195917	127195952	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
10	127344267	127344322	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
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10	128069086	128069111	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1
10	130169595	130169618	2	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	130979462	130979527	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
10	131893354	131893392	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	-
10	131907729	131907826	3	0	0	1	0	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0	-
10	131986776	131986870	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
10	132255211	132255223	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1
10	132325910	132325969	5	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	132325955	132326041	5	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	132339004	132339100	3	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
10	132355056	132355065	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	132355902	132355912	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	0	1	1	1	0	1
10	132451741	132451764	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
10	132502859	132502898	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
10	132544266	132544312	3	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
10	132622456	132622553	10	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
10	132622486	132622575	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
10	132622608	132622697	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
10	132622636	132622727	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
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10	132622746	132622843	10	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
10	132630865	132630910	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
10	132631440	132631501	5	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1
10	132631565	132631647	6	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0
10	133294006	133294015	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
10	133299672	133299766	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
10	133380042	133380131	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
10	133390996	133391032	5	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	133391883	133391973	3	1	1	1	1	0	0	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1	1
10	133528092	133528139	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
10	133528301	133528340	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
11	127812	127880	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
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11	290446	290458	3	1	1	1	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	360624	360719	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	482324	482423	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
11	482420	482512	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
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11	664610	664694	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
11	664629	664703	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
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11	664824	664923	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
11	745022	745116	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1
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11	808571	808641	3	1	0	0	1	0	0	1	1	1	1	1	1	0	1	1	1	0	1	0	1	1
11	837929	837946	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1
11	853413	853499	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
11	856987	856992	2	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
11	865930	866022	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
11	876031	876129	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
11	915380	915388	2	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
11	962870	962922	2	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
11	980170	980224	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
11	981564	981605	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
11	1042196	1042272	5	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
11	1043221	1043285	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
11	1504652	1504723	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
11	1504765	1504847	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
11	1606127	1606138	2	1	0	0	1	0	0	1	1	1	1	1	1	0	1	1	1	0	1	0	1	1
11	1759093	1759116	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
11	1760579	1760602	4	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
11	1849588	1849595	2	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
11	1852985	1853018	2	-	-	-	0	0	0	-	0	1	0	0	-	-	0	0	0	0	0	0	-	0	1
11	1854218	1854268	3	0	0	0	0	0	0	1	1	1	1	1	1	0	1	0	1	1	0	1	0	1	1
11	2302698	2302786	6	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
11	2385481	2385506	4	1	1	1	1	1	0	1	1	1	1	1	1	0	1	0	0	1	0	0	1	1	1
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11	2394035	2394122	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
11	2394110	2394209	6	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
11	2882083	2882130	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
11	2919785	2919862	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
11	2960893	2960971	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
11	3006595	3006646	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	3006925	3006938	2	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	3049963	3050041	3	1	1	0	1	1	0	1	1	0	0	0	1	0	1	1	1	1	0	1	1	0	0
11	3061952	3061967	3	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	3071429	3071509	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
11	3102328	3102386	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
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11	6252215	6252309	3	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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11	6651108	6651206	5	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	7672442	7672506	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
11	8984291	8984333	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	9211698	9211731	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
11	9462638	9462691	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
11	9462710	9462808	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1

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11	10451144	10451240	7	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	10451165	10451258	7	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	10451185	10451284	6	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	10451245	10451311	6	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	10778759	10778823	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	10778873	10778969	4	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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11	11396459	11396474	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	0
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11	12377886	12377902	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
11	13325925	13325934	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
11	13326074	13326168	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	14312461	14312490	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1	1
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11	14759587	14759636	4	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	17132473	17132521	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
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11	19680291	19680357	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0
11	19836383	19836427	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
11	28353792	28353858	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
11	30493230	30493289	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
11	30493301	30493351	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
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11	35004815	35004867	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
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11	44936681	44936771	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
11	45938933	45939025	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1	1
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11	46414214	46414259	3	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	46482868	46482959	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
11	47111460	47111518	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
11	47244745	47244759	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	47245209	47245217	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1
11	47318020	47318063	2	1	1	1	1	1	1	1	1	1	1	1	1	-	1	1	1	1	0	1	1	1	1
11	47355212	47355248	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
11	47355242	47355282	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
11	47355341	47355383	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
11	47391222	47391313	4	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
11	47522421	47522446	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	1
11	47547616	47547649	4	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1

11	47947211	47947238	3	1	1	1	1	1	1	0	0	0	0	0	0	1	0	1	0	0	1	0	1	0	0
11	48002191	48002264	4	0	0	0	0	0	0	1	1	1	1	1	1	0	1	0	1	1	1	1	0	1	1
11	48032480	48032493	2	1	1	1	1	1	1	1	1	0	0	0	1	0	1	1	1	1	1	1	1	0	1
11	48038576	48038642	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
11	48044866	48044877	2	1	1	1	1	1	1	0	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1
11	48097629	48097700	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
11	48127405	48127425	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1
11	49208226	49208264	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
11	57387814	57387863	5	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	57388621	57388700	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	57436218	57436226	2	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1
11	57485624	57485708	3	1	1	1	1	1	1	0	1	0	0	0	1	1	1	1	1	1	1	1	1	0	1
11	57512812	57512892	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	59671677	59671698	4	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
11	60847787	60847881	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	60895756	60895774	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1
11	60981529	60981540	2	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	60981758	60981765	2	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	60983328	60983375	3	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
11	60985155	60985224	3	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
11	61070445	61070464	3	1	1	1	1	1	1	1	1	1	1	1	1	-	1	1	0	1	0	1	1	1	1
11	61083738	61083800	5	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
11	61102971	61103041	5	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
11	61103007	61103079	5	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
11	61105845	61105897	3	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	61105980	61106075	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	61109304	61109379	5	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	61111613	61111680	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	61287499	61287580	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	61287920	61287984	3	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	61309799	61309824	2	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	61358620	61358681	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
11	61360101	61360195	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1	1
11	61360192	61360219	2	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1	1
11	61368888	61368903	2	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	0	1	1	1	1	1
11	61369830	61369847	2	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	0	0
11	61679282	61679287	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1
11	61809221	61809231	2	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	61809228	61809304	2	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	61880174	61880238	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
11	61972330	61972336	2	1	1	1	1	1	1	1	1	0	1	1	-	1	1	1	1	1	1	1	1	1	0
11	62422957	62422986	2	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	0	1	1	1	1
11	62544203	62544241	3	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
11	62544319	62544394	4	1	1	0	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
11	62814701	62814784	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
11	63536451	63536484	3	1	1	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	63694540	63694598	4	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
11	63694719	63694737	2	1	1	1	1	1	1	-	1	0	-	-	1	1	1	1	1	0	1	1	1	1	1
11	63853312	63853349	2	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	64074558	64074592	3	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
11	64107473	64107500	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
11	64192594	64192620	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	0	1	1	1	0	1
11	64193510	64193519	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1
11	64214902	64214907	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
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11	64554568	64554583	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0
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11	64859083	64859112	4	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	1
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11	65779140	65779222	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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11	65811980	65811990	2	1	1	1	1	1	1	0	1	0	0	0	1	1	1	1	1	0	0	1	1	1	0
11	65938998	65939015	2	1	1	1	1	1	1	1	1	0	1	0	1	0	1	1	1	1	0	1	1	0	1
11	65989888	65989961	3	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
11	66020624	66020706	4	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1
11	66136091	66136126	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
11	66161265	66161314	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	66237668	66237710	3	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
11	66314905	66314998	4	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	66315412	66315420	2	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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11	66336068	66336100	6	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	66611834	66611929	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1	1
11	66702282	66702356	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	66859746	66859797	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	66864725	66864775	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
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11	67352377	67352443	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1	1
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11	67667500	67667581	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
11	67667550	67667624	12	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
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11	68120394	68120399	2	-	-	0	0	1	0	-	0	1	0	0	-	-	0	0	0	0	0	-	-	-	0
11	68273484	68273572	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
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11	68314523	68314597	4	1	1	1	1	1	1	0	0	0	0	0	0	1	0	1	0	0	1	0	1	0	0
11	68371563	68371655	8	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1	1
11	68371572	68371669	8	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1	1
11	68371617	68371679	9	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1	1
11	68371666	68371746	7	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1	1
11	68375953	68376052	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	68412990	68413066	4	1	1	0	1	1	0	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
11	68413094	68413155	4	1	1	0	1	0	0	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
11	68417614	68417664	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
11	68755306	68755383	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
11	68766738	68766785	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
11	68766960	68767059	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
11	68813823	68813924	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
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11	68999514	68999527	2	1	1	1	1	1	0	1	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1

11	69060291	69060333	4	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
11	69153610	69153677	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
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11	69649153	69649246	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
11	69649189	69649273	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
11	69649261	69649354	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
11	69699299	69699345	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1
11	69892451	69892517	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
11	69892524	69892579	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
11	70326753	70326815	3	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	0	1	1	1	0
11	70327720	70327761	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
11	70352502	70352568	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
11	70353940	70354017	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
11	70354014	70354100	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
11	70354089	70354147	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
11	70354384	70354396	2	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
11	70366574	70366592	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
11	70436974	70437049	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1
11	70437412	70437491	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1
11	70437443	70437521	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1
11	70437488	70437570	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1
11	70437615	70437714	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1
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11	71495489	71495555	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1
11	71915157	71915255	9	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	71995361	71995458	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	72134827	72134867	3	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1
11	72157262	72157293	2	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
11	72723611	72723678	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1
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11	72739004	72739103	3	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
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11	72811814	72811827	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1
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11	73003831	73003926	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
11	73003903	73003969	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
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11	73027795	73027860	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1
11	73842721	73842764	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1
11	73976876	73976929	4	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	74001710	74001771	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
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11	74553617	74553660	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	76062995	76063035	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
11	76667663	76667718	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	0	1
11	76844758	76844770	2	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	0	1	1	1	1
11	78081512	78081588	3	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	78081613	78081708	4	1	1	1	0	0	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
11	78354914	78354939	2	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	0	1	1	-
11	78535271	78535283	2	1	0	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1
11	86062253	86062316	3	1	1	0	1	0	0	1	1	1	1	1	0	1	1	1	0	1	1	0	1	1
11	86062471	86062507	2	1	1	0	1	0	0	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1
11	86489879	86489970	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
11	86493611	86493704	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	86808176	86808266	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
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11	90290487	90290543	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
11	92608311	92608356	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
11	93512987	93512999	2	1	1	1	1	1	1	1	1	0	1	0	1	0	1	1	1	1	0	1	1	1	1
11	93736713	93736793	3	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
11	95266945	95266960	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1
11	95590466	95590564	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
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11	96184778	96184847	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
11	96232507	96232596	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	96341773	96341789	3	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	1	0	1	0
11	100572393	100572424	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	102319291	102319347	3	1	0	0	1	0	0	1	1	1	1	1	1	0	1	1	0	1	0	1	0	1	1
11	102324556	102324615	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
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11	102602034	102602096	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
11	105164470	105164500	2	1	0	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
11	107752577	107752590	2	1	1	0	1	1	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1	1	1
11	108161675	108161695	2	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	108174706	108174765	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
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11	110526746	110526837	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	111354539	111354565	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
11	111358827	111358892	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
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11	111776501	111776552	2	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1	1
11	112015823	112015905	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
11	113314893	113314975	9	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	114062344	114062396	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
11	114063741	114063791	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
11	114064328	114064355	3	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0	1	0	1	1	1	1	1
11	114065540	114065617	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
11	114066300	114066339	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
11	114070123	114070179	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	0
11	114072168	114072221	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
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11	114160333	114160384	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
11	114185602	114185659	3	1	1	1	1	1	1	-	1	1	1	1	1	1	1	-	1	0	1	1	1	1	1
11	114449965	114450043	3	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	114450040	114450068	2	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	115721213	115721229	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	116774685	116774770	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	117063653	117063727	3	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
11	117188709	117188804	7	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1
11	117188961	117189031	4	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1
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11	118014072	118014095	2	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	118216226	118216287	5	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	118838564	118838655	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
11	118838697	118838781	6	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
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11	119047288	119047340	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
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11	120321665	120321724	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
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11	125413053	125413063	2	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
11	126068827	126068875	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
11	126105302	126105366	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
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11	126420913	126420967	2	0	-	0	0	0	0	-	-	1	0	0	-	-	0	0	0	0	0	-	0	0	1
11	127323503	127323543	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
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11	128466617	128466631	3	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
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11	128499734	128499795	4	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1
11	128505572	128505608	3	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1
11	128506417	128506487	4	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	1	0	1	1	0	1	1
11	128512517	128512541	4	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1
11	128747695	128747707	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
11	128801171	128801240	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
11	128861957	128862007	4	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1
11	128901850	128901909	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
11	128964514	128964548	2	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
11	129814251	129814300	5	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1
11	129862826	129862906	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
11	129960712	129960797	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
11	129999631	129999640	2	1	1	1	1	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1	0	1	1
11	130000831	130000879	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
11	130072568	130072623	3	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	1	1	1	1	1	1
11	130072755	130072770	2	1	1	1	1	1	1	0	0	0	0	0	0	1	0	1	1	0	1	1	1	1	1
11	130094039	130094046	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1
11	130116517	130116580	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
11	130630706	130630802	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	130897482	130897517	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
11	134232902	134232940	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
11	134372654	134372697	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
12	186951	187042	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
12	592226	592325	5	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12	669902	669917	2	1	1	1	1	0	1	0	0	1	1	1	0	1	1	1	1	1	1	1	1	1	1
12	911571	911600	4	1	1	1	1	1	1	0	0	0	0	0	-	1	0	1	0	0	1	1	1	0	1
12	1388878	1388922	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
12	1473261	1473320	2	1	1	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12	1713817	1713910	5	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12	1763303	1763320	2	1	1	1	1	1	1	1	-	1	1	1	0	1	1	1	1	1	0	1	1	1	1
12	1810318	1810327	2	1	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	0	1
12	1810488	1810495	2	1	1	1	1	1	1	1	1	1	1	0	0	-	1	1	1	1	1	1	1	0	1
12	1922095	1922147	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1

12	2294723	2294769	4	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	-	1
12	2613840	2613906	3	1	0	0	1	0	0	1	1	0	0	0	1	0	0	1	1	1	0	1	0	0	0
12	2874437	2874491	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
12	3157781	3157795	2	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
12	4115260	4115269	2	1	-	0	1	-	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
12	4535125	4535199	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
12	4557819	4557824	2	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1
12	5583468	5583523	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
12	5807311	5807374	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
12	6182835	6182840	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	1
12	6183568	6183575	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
12	6280547	6280575	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
12	6350247	6350302	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
12	6434333	6434382	3	0	0	0	0	0	0	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1	1
12	6596655	6596733	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
12	6775337	6775364	2	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12	6791005	6791011	2	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
12	6791272	6791305	2	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
12	6791484	6791524	3	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
12	6952945	6953037	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
12	7591708	7591744	2	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1
12	7628512	7628609	8	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12	7628521	7628618	8	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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12	7990774	7990870	3	1	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12	8059100	8059188	3	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12	8623973	8624014	2	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1	1	1	1
12	9064863	9064918	5	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	9642932	9642971	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1
12	9823418	9823513	3	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12	10030608	10030637	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
12	10216117	10216143	3	1	1	0	1	0	0	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1
12	10286993	10287052	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
12	10305889	10305980	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
12	10310149	10310176	2	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
12	10312706	10312757	4	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
12	10387627	10387633	2	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
12	10405860	10405957	3	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12	10555381	10555396	2	0	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
12	10560464	10560469	2	1	1	1	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12	10716792	10716844	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
12	11717514	11717612	4	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1
12	12006903	12006943	3	1	1	0	1	0	0	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1	1
12	12415303	12415357	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
12	12445321	12445332	2	1	1	1	1	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
12	12482958	12483028	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1
12	12503497	12503525	2	1	0	0	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
12	12527809	12527863	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12	12625008	12625080	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
12	12664023	12664058	5	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1
12	12932107	12932186	3	1	0	0	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1
12	14402670	14402727	3	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12	14437848	14437915	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
12	14843573	14843655	6	1	1	1	1	1	1	1	0	1	1	1	0	1	1	1	1	1	1	1	1	1	1
12	15691523	15691537	2	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1
12	15923178	15923245	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
12	19365984	19366041	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12	19366038	19366068	2	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12	19457594	19457692	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
12	19850718	19850797	4	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0

12	22255353	22255439	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0
12	22410293	22410357	5	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12	22414920	22414932	2	1	1	1	1	1	1	1	1	1	1	1	-	-	1	1	1	1	0	1	1	1
12	22549934	22549994	3	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1
12	22772262	22772269	2	1	1	-	1	1	1	-	1	1	1	1	1	1	1	1	1	1	1	1	1	0
12	24909980	24910045	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	0	0
12	25249458	25249550	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
12	26156563	26156588	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1
12	26156677	26156774	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1
12	26331366	26331389	2	1	1	1	1	1	1	0	1	0	0	0	1	1	1	1	1	1	1	1	1	1
12	26339378	26339443	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0
12	26740440	26740539	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12	26817104	26817161	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1
12	26817158	26817245	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1
12	27502594	27502643	3	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12	27544416	27544515	4	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12	27548750	27548756	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	0	1	1	0
12	28352581	28352604	2	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12	31406946	31407021	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1
12	31406954	31407048	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1
12	31730729	31730810	3	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1
12	31859910	31859923	2	1	1	0	1	1	1	1	1	0	0	0	1	-	1	1	0	1	0	1	1	0
12	32047698	32047796	3	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
12	32521352	32521361	3	1	0	1	1	1	1	1	1	0	0	0	1	0	0	1	1	1	0	1	1	0
12	32674765	32674784	4	1	1	1	1	1	1	1	1	0	0	0	1	0	0	1	0	1	0	1	1	0
12	34867192	34867230	2	-	-	-	-	1	-	1	-	0	1	1	-	0	1	-	1	1	1	1	1	1
12	35981648	35981660	2	-	-	-	-	1	-	1	-	-	1	0	-	-	-	1	1	1	1	1	-	-
12	39696466	39696531	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
12	42453979	42454055	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1
12	45434206	45434303	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
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12	47827611	47827670	4	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	0	1	1	1	0
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12	47885406	47885422	2	0	0	0	0	0	0	1	1	1	1	0	0	0	1	0	1	1	0	1	0	0
12	48149770	48149831	3	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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12	49294006	49294051	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
12	49910145	49910179	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1
12	49946282	49946326	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
12	50534614	50534645	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
12	50951727	50951816	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
12	51343223	51343240	2	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1
12	51874064	51874074	2	1	1	1	1	1	1	-	1	0	1	1	1	1	1	1	1	1	1	1	1	1
12	52837476	52837485	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1
12	53073699	53073706	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
12	53309889	53309983	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
12	53310246	53310343	7	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
12	53353500	53353556	4	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	0	1

12	53369448	53369488	3	1	1	1	1	1	1	0	1	0	0	0	1	1	0	0	1	0	1	1	1	0	1
12	53654406	53654427	2	1	1	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
12	54292596	54292680	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12	54307892	54307927	4	1	1	1	1	1	1	-	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
12	54328253	54328295	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	1
12	55675809	55675856	4	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	1	1	1	1	0	1
12	55826715	55826757	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
12	55935511	55935555	3	0	0	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
12	55935851	55935859	2	0	-	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
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12	56022943	56023002	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
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12	56026979	56027012	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
12	56027904	56027910	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
12	56032397	56032402	2	1	1	1	1	1	1	-	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1
12	56034146	56034203	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
12	56035091	56035181	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
12	56035178	56035201	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
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12	56040099	56040134	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
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12	56288389	56288486	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12	56330381	56330430	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
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12	56683328	56683357	3	1	1	0	1	1	0	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
12	57049404	57049422	2	1	1	1	1	1	1	1	1	0	0	0	1	-	0	1	1	0	1	1	1	1	1
12	57104557	57104569	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1
12	57159171	57159216	2	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1
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12	57429452	57429552	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
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12	57521409	57521450	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
12	57726126	57726168	4	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
12	57726208	57726293	9	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
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12	57726541	57726606	11	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
12	57726609	57726694	12	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
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12	57726776	57726811	7	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
12	57726808	57726903	12	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
12	57726988	57727002	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
12	57736045	57736127	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
12	57736092	57736131	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
12	57736138	57736160	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
12	57896565	57896586	4	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	62289441	62289526	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
12	62891736	62891749	2	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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12	63813930	63814028	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
12	63813994	63814076	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
12	63814057	63814102	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
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12	67457776	67457793	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	0	1
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12	68964653	68964659	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1
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12	76769126	76769185	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12	80207392	80207458	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
12	82716509	82716565	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
12	89259996	89260096	2	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	0	1	1	1	1
12	89263771	89263815	2	-	-	1	1	1	-	-	1	1	0	0	-	1	0	1	1	1	1	1	0	1
12	89653336	89653423	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
12	89653381	89653447	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
12	92157032	92157069	3	1	1	1	1	1	1	1	1	1	1	1	1	-	1	1	0	1	0	1	1	1
12	92468403	92468480	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1
12	93094428	93094523	3	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1
12	93099514	93099611	3	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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12	93168585	93168620	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
12	93641465	93641504	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
12	93641487	93641510	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
12	93777724	93777756	3	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1
12	94165831	94165843	2	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1
12	94615959	94615986	2	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0
12	94616534	94616584	5	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
12	95349475	95349546	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1
12	95349641	95349692	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1
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12	98638883	98638895	2	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1	1	1	0	1	1	1
12	101699172	101699250	6	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
12	101761590	101761631	3	1	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	0	1	1	1
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12	103948092	103948127	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
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12	104692204	104692232	3	1	1	1	1	1	1	1	1	0	0	0	1	0	0	0	0	0	0	1	0	1
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12	105220814	105220876	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
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12	106356509	106356557	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
12	107202811	107202844	2	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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12	108530226	108530257	3	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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12	108785133	108785225	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
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12	109091511	109091608	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1
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12	110000819	110000916	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1
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12	110581169	110581181	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
12	110620323	110620366	3	1	1	1	1	1	1	1	1	1	1	1	1	-	1	1	0	1	0	1	1	1
12	110620897	110620968	3	1	1	1	1	1	1	1	1	1	1	1	1	-	1	1	0	1	0	1	1	1
12	110668990	110669046	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1
12	110690441	110690541	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
12	110722590	110722661	4	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12	111326773	111326820	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
12	111409410	111409468	6	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	111409483	111409504	4	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	111412467	111412486	3	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
12	111427095	111427115	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
12	111555279	111555303	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12	111597382	111597399	4	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	111670584	111670646	3	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1
12	111672277	111672343	2	1	1	1	1	1	1	1	1	1	1	1	-	-	1	1	1	1	1	1	1	1
12	111766140	111766170	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
12	111976393	111976430	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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12	112140836	112140921	3	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0
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12	113050966	113051001	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1
12	113173552	113173642	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1
12	113191288	113191361	4	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1
12	113933300	113933388	3	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1
12	114683071	114683089	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
12	114762509	114762519	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
12	116286269	116286321	4	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
12	116981648	116981729	3	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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12	117142181	117142207	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
12	118188168	118188252	3	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1
12	118246212	118246238	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
12	119689913	119689972	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
12	120105436	120105477	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
12	120156934	120156972	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
12	120166431	120166481	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1
12	120166563	120166662	7	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1
12	120235805	120235888	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
12	120482563	120482619	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
12	120599707	120599748	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12	120651879	120651884	2	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1
12	120665522	120665578	3	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
12	121033683	121033764	4	1	1	0	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
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12	121301761	121301806	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
12	121523177	121523209	3	1	1	1	1	0	0	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
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12	121557339	121557430	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
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12	121986490	121986504	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
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12	122227370	122227397	3	1	1	0	0	0	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
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12	122244621	122244694	3	1	0	0	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
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12	122732153	122732162	2	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12	122820711	122820791	6	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1	1
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12	123111626	123111643	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
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12	123812176	123812191	2	1	0	0	1	0	0	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1	1
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12	124423081	124423150	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
12	124423119	124423212	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
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12	130814299	130814321	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
12	130826413	130826419	2	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12	130887637	130887724	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
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12	131766534	131766564	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
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12	132076838	132076919	5	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12	132362354	132362385	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
12	132475870	132475901	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
12	132559027	132559066	4	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
12	132633453	132633469	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
12	132772723	132772747	4	1	1	1	1	1	1	1	1	0	0	0	1	0	0	1	0	1	0	1	1	0	1
12	132807134	132807143	2	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12	132820036	132820132	6	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
13	20148790	20148825	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
13	20415440	20415476	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
13	21076603	21076650	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
13	21530805	21530823	2	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13	21579488	21579499	2	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1
13	21579908	21579914	2	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1
13	21590730	21590813	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
13	21590768	21590834	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
13	21590810	21590842	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
13	23386916	23386926	2	1	0	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
13	23953943	23953972	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
13	24251772	24251840	6	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1
13	24251777	24251863	7	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1
13	24454020	24454085	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
13	24642366	24642420	4	1	0	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1
13	25252365	25252409	4	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
13	25504655	25504698	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
13	25750629	25750705	3	1	0	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
13	27177495	27177588	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
13	28611413	28611493	3	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13	29494657	29494699	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
13	29529903	29529993	3	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13	29570347	29570440	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1

13	29886614	29886672	3	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13	30107199	30107257	4	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
13	30113784	30113791	2	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13	30143081	30143120	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	0
13	30146032	30146106	3	1	0	0	1	0	0	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1	1
13	30146103	30146154	3	1	0	0	1	0	0	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1	1
13	30146142	30146175	3	1	0	0	1	0	0	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1	1
13	30342219	30342291	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
13	30342233	30342325	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
13	30395710	30395744	4	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
13	30444163	30444260	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
13	30655019	30655033	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13	30788215	30788259	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
13	30797048	30797123	4	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
13	32054852	32054871	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13	32227907	32227914	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13	32387686	32387727	3	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13	33146975	33147042	2	1	-	0	1	0	0	1	1	1	1	1	1	-	1	1	1	1	0	1	0	0	1
13	33341544	33341587	4	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	1	1	1	1	0	1
13	33610780	33610797	2	1	0	0	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
13	33690669	33690702	2	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13	39085460	39085469	2	1	-	1	1	1	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1	1	1
13	39823533	39823565	2	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
13	40145233	40145278	3	1	0	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
13	40394475	40394547	2	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
13	40483795	40483841	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
13	40580960	40581036	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13	40874724	40874749	2	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13	40927965	40927989	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
13	41225238	41225263	2	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
13	41463164	41463218	3	0	0	0	0	0	0	1	1	0	0	0	1	1	1	0	1	1	1	1	0	0	1
13	42056948	42056971	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
13	42070230	42070309	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13	42070306	42070326	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
13	42688578	42688585	2	1	1	-	1	-	-	1	1	1	0	1	-	-	1	1	1	1	-	-	-	-	-
13	42942703	42942759	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
13	42988533	42988578	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1	1
13	44264334	44264366	2	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1
13	44364676	44364688	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1
13	44815850	44815915	3	1	0	0	1	0	0	0	1	0	0	0	1	0	0	1	1	0	0	1	0	0	0
13	45132980	45132989	2	1	1	1	1	1	1	1	1	1	1	1	1	-	1	1	0	1	0	1	1	1	1
13	45257824	45257856	2	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13	45412429	45412457	2	1	1	1	1	1	1	-	1	0	0	0	1	-	0	1	1	0	1	1	1	1	1
13	46350260	46350277	2	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1
13	46369244	46369319	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
13	46585384	46585451	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
13	46651428	46651522	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
13	46651527	46651619	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
13	46651616	46651650	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
13	48536743	48536810	4	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	1
13	49218970	49219031	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
13	49644116	49644169	3	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1
13	49683777	49683783	2	1	0	0	1	0	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
13	50227948	50228002	2	1	1	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13	50237211	50237231	2	1	0	0	1	0	0	1	1	1	1	1	1	-	1	0	1	1	0	1	0	0	0
13	50715462	50715515	4	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
13	50721222	50721265	3	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1
13	50977859	50977916	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
13	50977875	50977931	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
13	51625787	51625820	3	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	0

13	51822335	51822384	4	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
13	52022323	52022360	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
13	53560026	53560089	7	1	1	1	1	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1	1	0
13	53560041	53560098	6	1	1	1	1	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1	1	0
13	53560066	53560106	5	1	1	1	1	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1	1	0
13	58470847	58470895	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
13	73075741	73075760	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
13	73075775	73075844	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
13	73219415	73219473	3	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13	74233161	74233237	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
13	75385525	75385584	4	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
13	75410645	75410704	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
13	75873644	75873684	4	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	0	1	1	1	1
13	77365722	77365762	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
13	77741125	77741152	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	0
13	77741414	77741473	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13	80562425	80562430	2	0	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
13	80888119	80888154	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
13	82139179	82139186	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13	83180330	83180375	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13	84500726	84500731	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13	87836140	87836196	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
13	95261184	95261279	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
13	95273877	95273921	5	1	1	1	1	1	1	0	0	1	1	1	0	1	1	1	1	1	1	1	1	1
13	95273900	95273988	5	1	1	1	1	1	1	0	0	1	1	1	0	1	1	1	1	1	1	1	1	1
13	97459575	97459640	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
13	98486669	98486713	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13	98510209	98510257	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1
13	98594901	98594927	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1
13	99215481	99215571	3	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1
13	99215502	99215595	3	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1
13	99215592	99215688	5	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1
13	99230802	99230823	3	1	1	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13	99230918	99230981	4	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13	99230971	99231044	4	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13	99306114	99306140	2	0	0	0	1	0	1	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1
13	99318590	99318618	2	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1
13	99351918	99351950	3	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1
13	99352676	99352768	4	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13	99366646	99366740	3	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13	99380956	99381048	5	0	0	0	0	0	0	1	1	1	1	1	1	0	1	0	1	1	0	1	0	1
13	99381033	99381085	4	0	0	0	0	0	0	1	1	1	1	1	1	0	1	0	1	1	0	1	0	1
13	99429872	99429919	6	1	1	1	1	1	1	1	1	1	1	1	1	-	1	1	0	1	0	0	1	1
13	99637067	99637128	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1
13	99753813	99753861	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
13	100509192	100509265	5	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13	100625260	100625310	3	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13	101717367	101717391	2	1	1	1	1	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1	1	1
13	102006759	102006807	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
13	103420934	103420990	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
13	103644235	103644244	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
13	103869945	103869993	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
13	106493128	106493168	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13	109733804	109733831	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
13	110042712	110042794	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1
13	110150401	110150437	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13	110512350	110512448	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	0	1	0	0	1	1
13	110515966	110515971	2	1	0	0	1	0	0	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1
13	110665674	110665744	4	1	1	1	1	1	1	0	1	0	0	0	1	0	0	1	0	0	1	1	1	0
13	110666506	110666594	4	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0

13	110675742	110675805	6	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1
13	110675780	110675872	6	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1
13	110675854	110675932	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1
13	110676010	110676024	2	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1
13	110676101	110676192	4	1	1	1	1	1	1	1	1	0	0	0	1	0	0	1	0	1	0	0	1	0	1
13	111165410	111165509	4	1	1	1	1	1	1	0	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
13	111177931	111177988	4	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
13	111217863	111217881	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13	111254751	111254838	10	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
13	111254761	111254856	10	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
13	111254802	111254866	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
13	111254853	111254940	10	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
13	111254937	111255033	10	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
13	111254965	111255042	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
13	111287917	111287990	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
13	111296020	111296106	6	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13	111304219	111304278	5	1	1	1	1	1	0	1	1	1	1	1	1	0	1	0	1	1	0	1	1	1	1
13	111304642	111304741	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
13	112701559	112701650	9	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13	112768173	112768248	5	1	1	1	1	1	1	1	1	0	0	0	1	0	0	1	1	1	0	1	1	0	1
13	112768859	112768956	5	1	1	0	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
13	112802016	112802112	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
13	112802061	112802162	8	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
13	112802114	112802208	6	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
13	112802205	112802304	8	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
13	112802263	112802342	7	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
13	113067551	113067630	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
13	113067602	113067673	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
13	113068922	113069016	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
13	113069069	113069148	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
13	113069120	113069189	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
13	113183727	113183825	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
13	113183827	113183894	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
13	113220327	113220398	3	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13	113220395	113220459	3	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13	113220444	113220518	6	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13	113338626	113338674	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
13	113359749	113359809	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13	113410185	113410239	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
13	113491693	113491725	4	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
13	113542114	113542148	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
13	113586184	113586192	2	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13	113605040	113605082	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
13	113609054	113609148	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
13	113727631	113727704	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
13	113821406	113821451	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
13	113865177	113865232	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
13	113875311	113875340	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
13	113884359	113884397	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
13	114021405	114021444	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
13	114026007	114026055	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
13	114055724	114055749	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
13	114070816	114070843	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
13	114100767	114100815	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
13	114113800	114113854	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
13	114125797	114125840	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
13	114153191	114153229	4	1	1	1	1	1	1	0	1	0	0	0	1	1	0	0	1	0	1	1	1	0	1
14	19362498	19362595	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
14	19362614	19362692	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
14	20435108	20435138	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0

14	20457079	20457112	4	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
14	20491391	20491488	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
14	20690183	20690218	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
14	21085751	21085763	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
14	21230952	21231010	4	1	1	0	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
14	21499531	21499594	4	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14	22529340	22529401	4	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
14	22547337	22547413	4	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
14	22558410	22558461	3	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1
14	22800610	22800658	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1
14	23033477	23033492	2	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14	23033513	23033528	2	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14	23033629	23033672	2	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14	23090077	23090087	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
14	23097916	23097991	3	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14	23115738	23115776	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
14	23117586	23117605	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
14	23117700	23117777	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
14	23180147	23180154	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	1
14	23329155	23329174	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
14	23365397	23365430	5	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
14	24004224	24004240	2	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1
14	24122211	24122229	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
14	24172117	24172197	6	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
14	24205454	24205510	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
14	24286609	24286617	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14	26850482	26850530	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
14	31068158	31068219	3	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
14	31127574	31127609	2	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
14	31899550	31899585	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1	1	1
14	34213675	34213685	2	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14	35203690	35203738	3	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14	35254421	35254455	2	1	1	1	1	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1	1	0	1
14	35342221	35342227	2	1	1	1	1	1	1	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
14	35417339	35417406	3	1	1	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
14	37172485	37172523	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
14	37451958	37452018	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
14	37592282	37592311	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
14	39115558	39115568	2	1	1	0	1	1	0	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
14	39154678	39154776	3	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
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14	39174164	39174214	3	1	1	1	1	1	1	0	0	1	1	1	0	0	1	1	1	1	0	1	1	1	1
14	43389273	43389328	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
14	44941013	44941020	2	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
14	44986897	44986993	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
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14	45249726	45249827	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
14	46727591	46727623	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
14	48865483	48865522	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14	49584227	49584306	3	1	1	0	1	0	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
14	49882070	49882128	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14	49891274	49891371	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
14	49986834	49986839	2	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
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14	52696767	52696813	5	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1
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14	54688291	54688307	2	1	1	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14	55108931	55109012	2	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1
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14	55371093	55371192	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
14	55385680	55385709	3	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
14	57060907	57060925	2	0	0	0	1	0	0	1	1	1	1	1	1	1	1	1	1	0	1	0	1	1
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14	57403008	57403107	7	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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14	60099878	60099951	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14	60780109	60780126	2	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14	60815460	60815516	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1
14	61025943	61025957	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0
14	61103058	61103098	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1
14	61215731	61215791	3	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1
14	61225474	61225500	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1
14	61334271	61334332	4	-	0	-	0	-	0	1	1	1	1	1	1	1	1	0	1	1	1	0	1	1
14	61720412	61720436	3	0	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
14	63283188	63283217	3	1	0	0	1	0	0	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
14	63748512	63748573	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	0	1	1	1	1
14	64412699	64412708	2	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14	64422990	64423014	2	1	1	0	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
14	64655046	64655092	4	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
14	64655059	64655147	4	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
14	64758518	64758615	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
14	64841880	64841934	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14	65021737	65021792	5	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14	65178657	65178703	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
14	65241685	65241766	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
14	65284308	65284373	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
14	65287424	65287443	3	0	0	0	0	0	0	1	1	1	1	1	1	0	1	1	0	1	0	0	0	1	1
14	65317591	65317632	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
14	65351688	65351703	3	1	1	1	1	1	1	1	1	1	1	1	1	-	1	1	0	1	0	1	1	1	1
14	65424067	65424137	4	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14	65457844	65457922	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
14	65504709	65504802	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
14	67410409	67410486	3	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14	67410516	67410609	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14	68502605	68502657	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
14	68502724	68502788	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
14	68548349	68548373	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
14	68548464	68548543	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
14	68569111	68569204	3	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	0	1	
14	68582480	68582524	2	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14	68713408	68713483	3	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1
14	68728984	68729057	4	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
14	68729773	68729851	3	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	1
14	68729822	68729877	3	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	1
14	68781818	68781898	3	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1
14	68927653	68927712	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
14	68951165	68951223	3	1	1	1	1	1	1	0	1	0	0	0	0	1	0	1	1	0	1	1	1	0	0
14	69079170	69079202	2	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0
14	69240950	69240983	3	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14	69336819	69336917	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
14	69442159	69442213	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
14	70282326	70282381	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
14	71218770	71218827	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
14	72620865	72620876	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
14	72823521	72823527	2	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14	73097360	73097428	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1

14	73247092	73247124	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
14	73304822	73304865	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1
14	73414675	73414732	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1
14	73414999	73415010	2	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1
14	73426568	73426619	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
14	73695807	73695826	3	1	1	0	1	1	0	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1
14	73931532	73931592	3	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14	74622974	74622982	2	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1
14	74927507	74927515	2	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
14	75180594	75180667	5	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
14	75211653	75211685	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	0
14	75281293	75281306	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
14	75440119	75440174	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
14	75440220	75440315	6	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
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14	75497758	75497763	2	1	1	1	1	0	1	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14	75525128	75525175	4	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1	1
14	75551164	75551195	3	1	1	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
14	75582736	75582754	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-	1
14	75609278	75609286	2	1	1	1	1	1	1	1	1	0	1	0	1	1	1	1	1	1	1	1	1	0	1
14	75955289	75955347	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
14	77025716	77025743	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
14	77025768	77025799	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
14	77025780	77025878	13	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
14	77025806	77025884	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
14	77025839	77025932	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
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14	77025905	77026001	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
14	77025966	77026019	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
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14	77026123	77026191	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
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14	77414457	77414556	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14	77680617	77680625	2	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14	77825920	77825990	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14	77825937	77826021	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14	77826132	77826170	3	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14	77826377	77826415	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14	80626290	80626358	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
14	80626319	80626397	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
14	81205767	81205865	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14	81485510	81485552	2	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
14	88464677	88464726	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
14	89292995	89293006	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	-	1
14	89315687	89315701	2	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1
14	89631530	89631547	2	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
14	90003726	90003780	3	1	0	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
14	90272543	90272610	2	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
14	90276066	90276084	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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14	90533775	90533789	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1
14	91099909	91099997	4	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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14	91237603	91237614	2	1	1	1	1	1	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1	0	1
14	91252191	91252261	3	1	0	0	1	0	0	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1
14	91273988	91274072	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1

14	91274034	91274104	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
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14	91340056	91340068	2	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	1	0	1	1	0	1
14	91344541	91344552	2	1	-	1	1	1	1	1	1	0	1	0	-	1	0	1	1	1	1	1	1	1	1
14	91358114	91358194	4	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14	91388162	91388210	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
14	91408568	91408611	4	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1
14	91977813	91977846	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
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14	92653424	92653517	6	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
14	92724577	92724661	4	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
14	92746101	92746143	5	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14	92760481	92760501	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
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14	92973618	92973690	3	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	0
14	92973730	92973813	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
14	93007720	93007776	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1
14	93030938	93030964	3	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1
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14	93190431	93190470	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14	93191362	93191397	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14	93239948	93240013	3	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14	93240063	93240157	4	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14	93347619	93347641	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
14	93804372	93804430	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
14	93804381	93804438	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
14	93940603	93940689	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
14	95090640	95090662	3	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
14	95090788	95090838	5	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
14	95487408	95487458	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
14	95509621	95509653	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
14	96220013	96220080	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
14	96407815	96407834	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14	97925676	97925696	2	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14	97978118	97978178	5	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0
14	99037109	99037142	4	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
14	99185157	99185166	3	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14	99230465	99230508	4	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1
14	99287758	99287763	2	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
14	99316541	99316621	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
14	99321149	99321224	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
14	99321258	99321285	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
14	100028582	100028668	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
14	100028680	100028769	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14	100069550	100069581	3	0	0	0	0	0	0	1	1	1	1	0	1	0	1	0	0	1	0	0	0	0	1
14	100070527	100070603	5	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1
14	100085684	100085763	3	1	0	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
14	100085854	100085948	5	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14	100144254	100144332	6	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14	100147365	100147439	3	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	1

14	100294252	100294302	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
14	100324131	100324172	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	0	1	1	1	0	1
14	100337030	100337096	5	1	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
14	100699813	100699853	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
14	101079002	101079088	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1	1	1	1
14	101734607	101734628	4	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
14	101757239	101757329	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
14	101818216	101818231	2	-	1	0	1	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1	1	1	1
14	101820367	101820438	4	0	0	0	0	0	0	1	1	1	1	1	1	0	1	0	0	1	0	1	0	0	1
14	101928435	101928443	2	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
14	102082840	102082864	2	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
14	102082907	102082912	2	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
14	102176121	102176192	5	1	0	0	1	0	0	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
14	102210571	102210660	6	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
14	102210883	102210981	5	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
14	102220056	102220082	3	1	0	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1	1
14	102220149	102220175	3	1	0	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	0	1	1
14	102287978	102288026	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
14	102299164	102299253	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
14	102504425	102504495	4	1	1	1	1	1	1	1	0	1	1	1	0	1	1	1	1	1	1	1	1	1	1
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14	102507588	102507599	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
14	102507652	102507695	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
14	102507698	102507731	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
14	102507762	102507786	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
14	102542660	102542709	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
14	102552714	102552721	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
14	102708545	102708575	4	1	1	1	1	1	1	1	1	1	1	1	1	-	1	1	1	1	0	1	1	1	1
14	102734504	102734595	5	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14	102853768	102853818	4	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
14	102968410	102968480	4	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14	102985622	102985707	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
14	103622188	103622287	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
14	103622284	103622360	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
14	103622319	103622398	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
14	103643942	103644013	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
14	103746933	103747024	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
14	103747021	103747042	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14	103904052	103904108	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
14	104164128	104164163	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
14	104251395	104251428	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
14	104658519	104658568	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1	1
14	104770346	104770396	5	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
14	104789059	104789130	4	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
14	104923354	104923449	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
14	104923503	104923579	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	0	1	1	1
14	105026600	105026652	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
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14	105063165	105063202	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
14	105064393	105064398	2	1	1	0	1	0	0	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
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14	105218587	105218654	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
14	105394560	105394584	5	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	1	1	1	1	0	1
14	105452210	105452230	3	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14	105452344	105452402	3	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14	105532305	105532366	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
14	106622361	106622390	4	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
15	18355239	18355251	2	-	-	-	1	-	-	-	-	0	1	1	-	-	1	1	1	1	1	1	-	-	-
15	20452375	20452409	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
15	22250276	22250283	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1

15	23306143	23306166	4	1	1	-	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	-	1	-
15	24594209	24594257	6	1	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
15	24795469	24795487	3	1	1	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15	28137360	28137441	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15	28137375	28137473	4	1	1	1	1	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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15	28265601	28265620	3	1	1	1	1	1	1	1	1	1	1	1	1	-	1	1	0	1	0	0	1	1
15	28876517	28876550	3	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15	28890733	28890756	3	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
15	29103728	29103784	4	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	29103815	29103825	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	29103854	29103861	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	29103879	29103974	14	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	29103942	29103999	8	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	29103987	29104077	8	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	29738905	29738915	2	1	1	0	1	1	1	1	1	1	1	1	-	1	1	1	1	0	1	1	1	1
15	31167947	31167962	3	1	0	0	1	0	0	1	1	1	1	1	1	0	1	0	1	1	0	1	0	1
15	31230400	31230476	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
15	31265568	31265602	4	1	1	1	1	1	1	-	1	1	1	0	1	1	1	1	1	0	1	1	1	0
15	31298753	31298823	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
15	31346084	31346146	4	0	0	0	0	0	0	1	1	1	1	1	1	0	1	1	0	1	0	1	0	1
15	31348342	31348369	4	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15	31348366	31348385	3	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15	31366769	31366780	2	1	1	1	0	1	1	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1
15	31486777	31486862	3	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15	32390644	32390742	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
15	32390716	32390806	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
15	33898142	33898184	4	1	1	0	1	0	0	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1
15	33956108	33956189	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
15	34333385	34333484	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1
15	34333429	34333512	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1
15	34369056	34369075	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1
15	34369534	34369595	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1
15	38078120	38078135	2	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1
15	38684382	38684407	2	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15	38686578	38686598	3	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15	39639445	39639478	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
15	39801588	39801660	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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15	40103588	40103624	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
15	40291378	40291396	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
15	40403517	40403585	4	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15	40403582	40403671	6	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15	40403614	40403687	6	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15	40546898	40546996	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
15	40559322	40559354	3	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
15	40889822	40889862	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
15	41151092	41151104	2	1	0	0	1	0	0	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1
15	41629704	41629709	2	1	1	1	1	1	1	1	1	0	0	0	-	1	1	1	1	1	1	1	1	1
15	42183168	42183179	2	1	1	1	1	1	1	-	1	1	0	0	1	1	0	1	1	1	1	1	-	1
15	42402877	42402921	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
15	43112461	43112551	3	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15	43112582	43112677	6	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
15	43776708	43776714	2	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0	0	0
15	43809415	43809450	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1
15	44521868	44521934	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
15	44664750	44664836	4	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
15	45069410	45069491	5	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15	45069428	45069519	5	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15	45468488	45468509	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	0	1	1	0	1

15	48326299	48326351	4	1	1	1	1	1	1	1	1	0	0	0	1	0	0	1	0	1	0	1	1	0	1
15	50448557	50448607	4	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
15	51569047	51569056	2	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	0	1
15	52106054	52106073	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	-	0
15	52247744	52247785	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
15	52379517	52379560	2	1	0	0	1	0	0	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
15	55074648	55074700	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
15	55283109	55283115	2	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15	55757407	55757418	2	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15	55944059	55944083	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
15	57281494	57281568	5	1	1	1	1	1	1	1	1	1	1	1	1	-	1	1	0	1	0	1	1	1	1
15	57284405	57284491	6	1	1	1	1	1	1	0	1	0	0	0	1	0	0	1	0	0	0	1	1	0	1
15	57540883	57540896	2	1	0	0	1	0	0	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1	1
15	58188731	58188817	5	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15	58200833	58200840	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15	58298671	58298763	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15	58583728	58583793	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	1
15	58903285	58903373	4	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
15	58998123	58998156	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
15	59149334	59149347	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
15	59290213	59290264	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
15	59376306	59376347	4	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
15	59407442	59407487	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
15	60416611	60416669	3	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1
15	60548327	60548402	4	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1
15	60550013	60550022	3	1	0	-	1	0	-	1	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1
15	60589481	60589542	4	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1
15	60652457	60652490	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
15	60700963	60700969	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15	60730030	60730070	2	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15	61841841	61841875	2	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
15	62657647	62657735	4	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	1	1	1	1	0	1
15	62897314	62897365	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
15	63162828	63162915	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
15	63214572	63214620	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1
15	63328074	63328155	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
15	63328113	63328207	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
15	63355526	63355592	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
15	63449016	63449083	5	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
15	63451620	63451667	4	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
15	64368063	64368071	3	1	1	1	1	1	1	1	1	0	0	0	1	0	0	1	0	1	0	1	1	0	1
15	64550655	64550752	3	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1
15	64870995	64871040	4	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
15	64871012	64871061	4	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
15	64878916	64878929	2	1	1	1	1	1	1	1	1	0	0	1	0	1	1	1	1	1	1	1	1	0	1
15	64884383	64884468	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
15	64970863	64970902	4	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
15	65127283	65127375	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
15	65127312	65127390	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
15	65127380	65127460	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15	65479670	65479714	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
15	65777947	65778029	5	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15	65807133	65807215	4	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15	65919595	65919680	5	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
15	66389054	66389135	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
15	66389132	66389166	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
15	66389156	66389197	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
15	66573435	66573534	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
15	66871876	66871887	2	1	1	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15	67067118	67067154	3	0	0	0	0	1	0	0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0

15	67088435	67088522	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
15	67088505	67088605	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
15	67088571	67088669	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
15	67093274	67093313	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1
15	67932098	67932104	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1
15	68182555	68182610	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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15	68304142	68304216	4	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	0	1
15	68311295	68311375	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
15	68650060	68650141	4	1	1	1	1	1	1	1	1	1	1	1	1	-	1	1	1	1	0	1	1	1
15	68795550	68795631	4	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	69451243	69451319	5	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15	69714546	69714568	4	0	0	0	0	0	0	1	1	1	1	1	1	0	1	0	1	1	0	1	0	1
15	69881154	69881227	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1
15	70072019	70072058	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	0	1	1
15	70091227	70091235	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
15	70246645	70246738	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
15	72504661	72504718	4	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15	74407984	74408082	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
15	74462538	74462597	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
15	74462719	74462782	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
15	74539715	74539750	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15	74923640	74923655	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
15	74953637	74953732	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
15	75027609	75027657	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
15	75035384	75035414	2	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
15	75441044	75441091	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
15	75441165	75441262	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
15	75549865	75549958	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1
15	75935931	75935950	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
15	75935935	75935979	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
15	75935941	75935990	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
15	76169627	76169702	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
15	76991222	76991316	4	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	0	1
15	77023654	77023704	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-	1	1	1	1	1	1
15	77042692	77042757	2	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1
15	77557361	77557400	3	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0
15	77989480	77989555	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
15	78021851	78021946	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
15	78092886	78092965	4	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15	78263528	78263550	2	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
15	78263593	78263626	2	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
15	78264091	78264172	8	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
15	78876192	78876229	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
15	78943448	78943527	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1
15	80019220	80019310	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
15	80068567	80068616	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
15	80102327	80102406	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15	80471601	80471608	2	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
15	80785423	80785450	4	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15	80920139	80920162	3	1	1	1	1	1	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
15	81313171	81313250	4	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	0
15	81313213	81313304	4	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	0
15	81313301	81313365	5	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	0	1	1	1	0	0
15	82170136	82170185	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
15	82170144	82170209	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
15	82170174	82170261	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
15	82298014	82298049	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0

15	82298169	82298267	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
15	82298217	82298283	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
15	82298234	82298291	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
15	82301102	82301128	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
15	82301239	82301312	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
15	82307300	82307397	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
15	82317177	82317231	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
15	82317183	82317271	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
15	82381240	82381283	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
15	82419422	82419520	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
15	82419443	82419544	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
15	82437118	82437147	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
15	82472330	82472411	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
15	82474781	82474873	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
15	82474812	82474885	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
15	82474827	82474891	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
15	82474879	82474972	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
15	82487672	82487771	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
15	82532975	82533052	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
15	82533132	82533226	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
15	82533370	82533452	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
15	82535385	82535440	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
15	82547388	82547399	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15	84167211	84167307	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
15	84168064	84168124	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
15	84168097	84168168	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
15	84505432	84505501	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
15	84609991	84610052	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
15	84825332	84825412	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
15	85017116	85017155	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
15	85031778	85031804	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
15	85147888	85147895	2	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15	85195073	85195115	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
15	85647119	85647171	2	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
15	85738693	85738712	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
15	85759448	85759540	5	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15	88920913	88920964	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
15	89094444	89094484	4	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
15	89104550	89104582	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
15	89135986	89136077	5	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
15	89747395	89747476	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
15	89782901	89782985	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
15	89823891	89823932	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	-	1
15	89845363	89845378	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	0
15	89908301	89908389	8	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15	89908399	89908491	5	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15	89936970	89937069	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
15	89937001	89937085	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
15	89937012	89937103	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
15	89963360	89963405	3	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
15	90000187	90000224	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0
15	90098785	90098797	2	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15	90142373	90142437	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
15	90396517	90396530	2	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1
15	90406322	90406413	4	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1
15	90477495	90477566	4	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15	90511363	90511447	4	0	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15	90511475	90511547	5	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15	90619627	90619710	4	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15	90686169	90686182	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

15	90750360	90750405	3	1	0	1	1	0	1	0	1	0	0	0	1	0	0	1	1	0	0	1	0	0	1
15	90912149	90912195	6	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15	90914541	90914624	6	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
15	90914604	90914680	6	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
15	90928182	90928277	4	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
15	90928186	90928285	4	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
15	91872111	91872208	5	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	1
15	91872259	91872348	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15	92145178	92145191	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
15	92617679	92617738	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0
15	92853667	92853756	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
15	93223664	93223745	5	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15	93987299	93987338	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
15	96331283	96331295	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
15	97948038	97948072	5	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
15	98548467	98548493	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
15	98727823	98727868	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
15	98902981	98902993	3	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
15	99129764	99129785	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
15	99433368	99433387	2	1	1	1	1	1	1	1	1	1	1	0	1	0	1	1	1	1	0	1	1	1	1
15	99486413	99486466	4	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	99502946	99502970	2	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
15	99515564	99515654	6	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
15	99569234	99569286	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
15	99569275	99569373	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
15	99593243	99593289	3	1	1	1	1	1	1	0	1	0	0	0	-	1	1	1	1	0	1	1	1	0	1
15	100230173	100230253	7	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15	100612234	100612309	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
15	101062737	101062813	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
15	101114217	101114248	2	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15	101135771	101135859	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
15	101181040	101181088	3	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15	101220904	101221003	6	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15	101654378	101654401	3	1	0	0	1	1	1	0	1	0	0	0	1	0	0	1	1	0	0	1	0	0	1
15	101675968	101675973	2	1	1	1	1	1	1	1	1	1	1	1	1	-	1	1	1	1	0	1	1	1	1
15	101701813	101701870	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1
15	101701860	101701924	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1
15	101701919	101701934	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1
16	241247	241341	3	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
16	256159	256174	2	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	341056	341099	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
16	351334	351386	4	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
16	399618	399655	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	399679	399745	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	452654	452715	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
16	452668	452725	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
16	502239	502255	4	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
16	516477	516548	2	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	516613	516644	2	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	798771	798830	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1	1
16	873539	873588	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
16	873634	873714	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
16	964070	964093	4	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
16	964923	964950	3	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	1092819	1092881	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
16	1444874	1444965	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1	1
16	1457066	1457107	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
16	1550499	1550566	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
16	1649678	1649726	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
16	1657330	1657368	3	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

16	1657360	1657455	3	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1
16	1708574	1708651	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
16	1708700	1708799	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
16	1765613	1765627	2	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
16	1820600	1820674	5	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	1820867	1820925	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	1968401	1968450	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
16	2035816	2035875	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
16	2035852	2035944	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0
16	2035913	2036003	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0
16	2117880	2117932	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
16	2182295	2182328	4	1	1	0	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
16	2183796	2183817	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
16	2437199	2437251	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
16	2684851	2684896	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
16	2690562	2690639	5	1	1	1	1	1	1	0	1	0	0	0	1	1	0	0	1	0	1	1	1	0	1
16	2690661	2690747	8	1	1	1	1	1	1	0	1	0	0	0	1	1	0	0	1	0	1	1	1	1	1
16	2751334	2751391	3	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1
16	2770720	2770777	3	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	2925693	2925719	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1
16	2961148	2961192	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
16	3474493	3474591	5	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	3555629	3555664	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
16	3591008	3591027	4	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
16	3613805	3613867	3	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
16	3657299	3657359	4	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	3668915	3668928	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
16	3734976	3735013	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
16	4088915	4088938	2	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	0	1	1	1	1	1
16	4088935	4088964	2	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	0	1	1	1	1	1
16	4347289	4347375	3	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
16	4364731	4364818	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
16	4399277	4399341	4	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	4465788	4465840	3	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	4466481	4466580	5	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
16	4466499	4466594	4	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
16	4466655	4466672	2	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
16	4615296	4615327	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
16	4640860	4640886	3	1	1	1	0	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
16	4681940	4681980	5	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	4682367	4682452	7	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	1	1	1	1	0	1
16	4682603	4682640	4	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	1	1	1	1	0	1
16	4700370	4700375	2	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	4825406	4825443	2	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	5001350	5001417	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
16	5029157	5029241	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
16	5030044	5030062	2	1	1	1	1	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1	1	1	1
16	5082034	5082047	2	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	8641838	8641892	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	8646813	8646902	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	8892450	8892509	8	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
16	8921705	8921763	5	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	10742427	10742508	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
16	10761530	10761537	2	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	1	1	1	1	0	1
16	10768520	10768593	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
16	10777703	10777751	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
16	10832445	10832486	2	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	1	1	1	1	0	1
16	10894942	10895006	2	1	1	-	1	1	1	1	-	1	1	1	1	1	1	1	1	1	0	1	1	1	0
16	10922426	10922492	6	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0
16	10964991	10965012	3	1	0	0	1	0	0	1	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1	1

16	10965005	10965031	4	1	0	0	1	0	0	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1	1
16	10965137	10965163	2	1	0	0	1	0	0	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1	1
16	11077747	11077848	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
16	11126253	11126300	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
16	11126518	11126605	3	1	1	1	1	0	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1
16	11129687	11129742	2	1	1	1	1	1	1	0	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1
16	11130401	11130451	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
16	11166124	11166135	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	11182557	11182576	3	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1
16	11248266	11248328	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
16	11248525	11248604	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
16	11372538	11372595	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
16	11558931	11559015	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
16	11635214	11635303	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	11635274	11635331	5	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	11737304	11737395	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
16	11792931	11792979	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
16	11794165	11794190	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
16	11819138	11819226	3	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	0
16	11819144	11819243	3	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
16	11995735	11995829	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
16	12297183	12297243	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1	1	1
16	12460203	12460211	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
16	12475056	12475066	2	1	1	1	1	1	1	1	1	1	1	0	-	1	1	1	1	1	1	1	1	0	1
16	14012153	14012178	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
16	14141073	14141129	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1
16	14585456	14585502	2	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	14919888	14919931	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0
16	14930953	14931029	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
16	14930990	14931040	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
16	14932417	14932485	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
16	15015059	15015100	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
16	15031745	15031823	4	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
16	15129917	15129961	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
16	15129928	15129967	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
16	15133925	15133970	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
16	15135960	15136027	5	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	15135982	15136066	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	15136063	15136141	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	15137080	15137123	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
16	15598610	15598660	3	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	15607732	15607801	2	1	1	1	1	1	1	1	1	0	0	0	1	-	1	1	1	1	1	1	1	1	1
16	15607916	15607933	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	1
16	15625050	15625091	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
16	15971594	15971688	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
16	16170733	16170813	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
16	16317523	16317566	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
16	16317760	16317847	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
16	16317864	16317907	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
16	16321047	16321079	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
16	16321308	16321364	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
16	16357918	16358009	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
16	16368779	16368841	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
16	17024636	17024726	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
16	17343185	17343276	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	17343214	17343309	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	17343273	17343368	6	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	18350444	18350483	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
16	18350453	18350523	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
16	18350800	18350899	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0

16	18350896	18350954	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
16	18350904	18351001	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
16	18351101	18351144	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
16	18363188	18363273	5	1	1	1	1	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1	1	0
16	18374617	18374700	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
16	18376632	18376716	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
16	18376779	18376837	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
16	18377135	18377201	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
16	18377241	18377293	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
16	18377300	18377368	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
16	18377650	18377749	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
16	18377744	18377812	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
16	18377908	18378000	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
16	18379521	18379601	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
16	18380077	18380128	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
16	18380546	18380587	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
16	18380550	18380613	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
16	18395899	18395936	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
16	18842401	18842422	2	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	0	1
16	20897376	20897398	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	0	1
16	21551869	21551877	2	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
16	21554577	21554648	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1
16	21621545	21621620	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	21647353	21647423	4	0	0	0	0	0	0	1	1	1	1	1	1	0	1	0	0	1	0	0	0	1
16	21911298	21911366	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
16	21960093	21960149	4	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	21962745	21962815	3	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	22199679	22199690	2	1	1	1	1	1	1	1	1	0	0	1	1	0	1	1	1	1	0	1	1	0	0
16	22218573	22218646	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
16	22231212	22231247	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
16	22282622	22282638	2	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	22693110	22693181	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	23423661	23423740	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0
16	23423734	23423799	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0
16	23423791	23423843	3	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0
16	23445073	23445118	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	23446595	23446642	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	23482813	23482872	3	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	23482922	23483003	7	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	23483034	23483095	4	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	23483227	23483246	2	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	23483722	23483810	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	23483888	23483944	4	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	23507581	23507678	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
16	24979819	24979869	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
16	25049201	25049279	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
16	27211182	27211241	3	0	1	1	0	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
16	27227588	27227688	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
16	27229097	27229125	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
16	27230648	27230724	3	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	1	1	1	0	1	1
16	27283059	27283125	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
16	27311560	27311575	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
16	27464311	27464316	2	1	1	1	0	0	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
16	27464394	27464436	3	1	0	1	0	0	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
16	27464786	27464877	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	27464886	27464962	5	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	27464983	27465061	4	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
16	27465096	27465157	3	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
16	27761813	27761895	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1
16	28125889	28125981	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1

16	28204685	28204769	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
16	28522781	28522873	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
16	28556449	28556510	2	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1
16	28758163	28758203	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
16	28758200	28758283	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
16	28758266	28758345	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
16	28758327	28758423	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
16	28896415	28896500	4	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1
16	28910903	28910942	3	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1
16	28931521	28931616	4	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1
16	28986558	28986586	4	0	-	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	1
16	28986564	28986620	4	0	-	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	1
16	29021622	29021716	4	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	1	0	1
16	29212538	29212616	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
16	29260252	29260318	4	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
16	29483819	29483851	4	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1
16	29491785	29491845	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
16	29491899	29491966	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
16	29554176	29554242	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
16	29686439	29686537	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
16	29828360	29828444	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
16	29910136	29910228	3	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1
16	30020032	30020071	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
16	30182534	30182586	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1
16	30242310	30242391	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
16	30242593	30242688	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
16	30259742	30259788	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
16	30259906	30259982	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
16	30325030	30325063	5	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	0	1	1
16	30463096	30463108	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	30557095	30557176	4	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	30557173	30557180	2	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	30626247	30626311	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
16	30766798	30766876	7	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1
16	30963939	30963988	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
16	30996046	30996108	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
16	31116410	31116445	4	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	1	1	1	1
16	31116438	31116478	4	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	1	1	1	1
16	31116442	31116490	4	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	1	1	1	1
16	31116447	31116495	4	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	1	1	1	1
16	31332050	31332077	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0	0
16	31466370	31466470	6	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1
16	31528265	31528340	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	46828128	46828165	2	1	0	0	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
16	46916293	46916342	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1
16	46916331	46916401	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	0	1
16	46916398	46916461	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1
16	46916445	46916504	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1
16	46984556	46984575	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
16	47114650	47114673	2	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	47592354	47592405	2	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1
16	48539915	48539942	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
16	49793451	49793464	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
16	50081879	50081942	3	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	50194307	50194405	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1
16	50194415	50194481	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1
16	50263814	50263836	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1
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16	50290075	50290172	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
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16	50316637	50316659	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
16	50316777	50316845	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
16	50708878	50708903	4	1	0	0	1	0	1	0	1	0	0	0	1	1	0	1	1	1	1	1	0	0	1
16	50746316	50746339	2	0	0	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
16	53457504	53457560	4	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1
16	53994763	53994845	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
16	56197181	56197225	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
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16	56870216	56870274	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
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16	56929995	56930084	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
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16	57160145	57160164	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
16	57160149	57160223	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
16	57263373	57263401	3	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	57409974	57410033	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0
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16	57424128	57424208	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
16	57629595	57629665	4	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	57762162	57762201	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
16	57871946	57872035	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
16	58439324	58439377	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
16	58731190	58731249	6	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1	1	1
16	60522882	60522912	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
16	60522898	60522919	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
16	61089409	61089416	2	1	1	1	1	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1	1	1	1
16	63799127	63799183	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
16	66398645	66398728	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
16	67194417	67194500	3	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	67203769	67203867	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
16	67318949	67318962	2	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	67532177	67532200	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	67532357	67532453	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1	1	1
16	67565199	67565295	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
16	67789988	67790052	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	67945699	67945770	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
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16	67975267	67975328	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
16	68038546	68038624	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1	1
16	68356825	68356852	3	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	1
16	68753033	68753115	6	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	68753166	68753258	5	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	68801688	68801776	5	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	68866478	68866497	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
16	68866482	68866541	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
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16	69877150	69877192	3	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	70416988	70417022	2	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1	1
16	70429519	70429545	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1	1

16	70436154	70436227	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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16	70737263	70737315	5	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	70785078	70785163	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
16	70785160	70785232	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
16	70785205	70785274	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
16	71728165	71728191	3	1	1	1	1	1	1	0	1	1	1	1	1	0	1	1	0	1	0	1	1	1
16	71819013	71819061	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1
16	72934802	72934896	4	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
16	74303940	74303996	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
16	74495364	74495454	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
16	74512218	74512246	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	74655649	74655726	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
16	74855477	74855553	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
16	74969609	74969666	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
16	74969724	74969803	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
16	75317181	75317240	3	1	1	1	1	1	1	0	1	0	0	0	0	1	0	1	1	0	1	1	1	0	1
16	75496411	75496446	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
16	75602021	75602086	3	1	1	1	1	1	0	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
16	75620453	75620495	4	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	75620899	75620925	2	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	78617459	78617553	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
16	78894812	78894836	2	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	78894917	78895014	4	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	78895018	78895057	3	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	79083152	79083171	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	0	1	1	0	1
16	79596087	79596121	3	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	79601875	79601884	2	-	-	-	0	-	-	-	-	0	1	0	-	-	0	0	0	0	0	0	0	-	0
16	80677463	80677511	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
16	80725670	80725766	4	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	80725780	80725827	4	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	80947612	80947678	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
16	81118787	81118796	2	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
16	81485864	81485938	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	1
16	81486022	81486042	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1
16	81653056	81653110	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
16	81770832	81770887	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1	1	0	1	1	1	1
16	81815708	81815757	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
16	82133342	82133370	2	1	0	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	82184643	82184663	2	1	1	1	1	1	1	1	1	0	0	0	-	1	0	1	1	0	1	1	1	1	1
16	82396433	82396469	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
16	82448958	82449001	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
16	84515780	84515810	2	1	1	0	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
16	84515807	84515819	2	1	1	0	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
16	84562933	84563024	5	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	84576154	84576214	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1
16	84590252	84590346	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
16	84608684	84608768	3	1	0	0	1	0	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
16	84616191	84616217	3	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	1	0	0	1	0	0	1
16	84619872	84619962	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
16	84643251	84643334	5	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	0
16	84652987	84653009	3	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	84656884	84656947	8	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
16	84711865	84711964	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
16	84843271	84843333	2	1	1	1	0	0	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
16	84911678	84911734	4	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
16	84985681	84985731	3	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	1	1	1	1	0	0
16	84986326	84986349	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	85478172	85478194	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
16	85480918	85480952	4	1	1	1	1	1	1	1	1	1	1	1	1	-	1	1	0	1	0	0	1	1	1

16	85481068	85481123	4	1	1	1	1	1	1	1	1	1	1	1	1	-	1	1	0	1	0	0	1	1	1
16	85544193	85544255	5	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
16	85544223	85544277	5	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
16	85551998	85552050	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1
16	85569773	85569854	3	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
16	85588711	85588793	6	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	85596278	85596354	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
16	85733793	85733841	4	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
16	85755768	85755805	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1	1
16	85761321	85761382	5	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
16	85782961	85783019	5	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
16	85842464	85842551	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
16	85905461	85905543	5	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
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16	85995521	85995618	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
16	87249227	87249297	4	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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16	87271436	87271473	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
16	87305937	87306034	5	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0
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16	87408034	87408085	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
16	87414498	87414526	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
16	87435582	87435612	3	0	1	1	0	1	1	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1
16	87435592	87435618	3	0	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
16	87486429	87486509	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
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16	87701649	87701748	7	1	1	1	1	1	1	1	1	1	1	1	1	-	1	1	0	1	0	0	1	1	1
16	87701713	87701778	7	1	1	1	1	1	1	1	1	1	1	1	1	-	1	1	0	1	0	0	1	1	1
16	87729404	87729493	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
16	87729595	87729678	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
16	87729665	87729747	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
16	87729694	87729779	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
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16	87762084	87762105	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
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16	87810073	87810094	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1	1
16	87829339	87829411	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
16	87830249	87830328	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
16	87833374	87833453	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	0	1	1	1
16	87833422	87833465	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
16	87833746	87833842	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
16	87833817	87833886	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
16	87833883	87833948	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
16	87869719	87869728	2	0	0	-	0	0	0	0	0	0	0	0	-	-	0	0	0	0	0	0	0	0	0
16	87875082	87875120	3	1	0	1	1	0	1	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1	1
16	87903149	87903172	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
16	88018477	88018486	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	88046155	88046191	3	1	1	1	1	1	1	1	1	0	0	0	1	0	0	0	0	1	0	0	1	0	1
16	88332391	88332472	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
16	88436262	88436277	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	88491781	88491817	5	1	1	1	1	1	1	0	0	1	1	1	0	1	1	1	1	1	1	1	1	1	1
16	88498040	88498090	4	1	1	1	1	1	1	1	0	1	1	1	0	1	1	1	1	1	1	1	1	1	1
16	88511949	88512033	5	1	1	1	1	1	1	1	0	1	1	1	0	1	1	1	1	1	1	1	1	1	1
16	88532671	88532720	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
16	88534087	88534101	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
16	88556034	88556072	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
16	88588749	88588843	3	1	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1

16	88589219	88589237	2	1	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
16	88589328	88589335	2	1	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
16	88589605	88589651	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
16	88589611	88589710	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
16	88589624	88589723	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
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16	88687355	88687389	3	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
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16	88751856	88751891	3	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1	1
16	88840773	88840843	5	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1
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16	88853723	88853823	6	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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16	89114048	89114148	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1
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16	89279569	89279619	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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16	89323656	89323666	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
16	89324276	89324293	3	1	0	0	1	0	0	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1
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16	89501761	89501841	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
16	89559433	89559459	3	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	0	1
16	89694715	89694751	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
16	89727819	89727863	2	1	1	1	0	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
16	89814737	89814835	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
16	89879619	89879706	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
16	89879638	89879725	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
16	89879652	89879748	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
16	89879736	89879832	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
16	89906963	89907038	5	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
16	89955853	89955935	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
16	89956407	89956440	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1
16	89974333	89974432	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
16	89974456	89974530	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	89983719	89983745	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
16	90125684	90125723	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
16	90133283	90133337	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
17	414691	414697	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	414696	414761	3	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	524470	524495	3	1	1	1	1	1	1	-	1	1	1	1	1	1	1	1	0	1	1	1	1	1
17	689980	690072	4	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	0	1	1	1	0
17	740510	740580	5	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
17	1032718	1032774	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
17	1090296	1090358	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
17	1120597	1120655	2	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
17	1128115	1128128	2	1	1	1	1	1	1	1	1	1	1	0	-	1	1	1	1	1	1	1	1	1
17	1144391	1144457	4	1	1	1	1	1	1	0	0	1	1	1	0	1	1	1	1	1	1	1	1	1
17	1522215	1522263	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0

17	1544286	1544323	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
17	1553082	1553101	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
17	1555789	1555852	4	1	1	1	1	1	1	1	1	0	0	0	1	0	0	1	0	0	0	0	1	0	1
17	1557546	1557617	3	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1
17	1572854	1572864	2	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	1	1	1	1	0	0
17	1586337	1586426	8	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1
17	1673490	1673564	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
17	1695492	1695505	2	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	0	1
17	1707058	1707123	3	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	1707114	1707163	3	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	1730438	1730503	6	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0
17	1733089	1733185	7	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
17	1751684	1751696	2	1	1	-	1	-	0	1	-	1	1	1	1	1	1	0	1	1	1	1	-	1	1
17	1769546	1769582	3	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	1769577	1769658	3	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	1769655	1769710	3	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1
17	1787705	1787802	3	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	0
17	1787799	1787836	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
17	1834293	1834305	2	1	0	1	1	0	1	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1	1
17	1872437	1872466	3	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	1873725	1873788	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
17	1890844	1890916	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
17	2002580	2002589	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
17	2069705	2069773	3	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	2069805	2069893	5	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	2191241	2191298	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
17	2218330	2218378	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
17	2381087	2381137	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	2398636	2398653	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1
17	2406416	2406437	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
17	2414691	2414730	3	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1
17	2489419	2489485	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
17	2539541	2539612	4	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	2694224	2694236	3	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
17	2694231	2694247	3	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
17	2793255	2793309	2	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
17	3026257	3026270	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
17	3558155	3558238	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
17	3558235	3558322	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
17	3590314	3590411	8	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
17	3590404	3590446	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
17	3643626	3643717	5	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	3643812	3643894	5	1	1	1	1	0	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1
17	3659925	3660022	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0
17	3667569	3667582	2	1	1	1	1	1	1	-	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0
17	3689063	3689141	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1	1
17	3753123	3753139	3	1	1	1	1	0	1	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	3816892	3816991	6	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
17	3816918	3817015	6	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
17	3816957	3817051	8	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
17	3817020	3817118	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
17	3869474	3869573	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
17	4003317	4003331	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
17	4074287	4074335	3	1	1	1	1	1	1	0	1	0	0	0	1	0	0	1	0	0	0	0	1	0	1
17	4083253	4083263	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
17	4086271	4086316	3	1	0	-	1	0	0	1	1	1	1	1	1	0	1	1	1	1	0	1	0	0	1
17	4177995	4178032	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
17	4207818	4207900	5	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
17	4211173	4211234	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
17	4273115	4273211	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1

17	4296286	4296367	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
17	4349568	4349627	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
17	4518350	4518417	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
17	4518470	4518503	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
17	4518976	4519041	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
17	4657473	4657520	5	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	4662944	4662957	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	4678601	4678612	2	1	1	1	1	1	1	0	1	1	1	0	1	1	1	0	1	1	1	1	1	0	0
17	4679851	4679948	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0
17	4722676	4722681	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
17	4774681	4774769	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
17	4794886	4794926	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
17	4830455	4830550	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
17	4877242	4877329	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0
17	4920845	4920910	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1
17	4965427	4965506	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	1
17	5232850	5232858	2	1	1	1	1	1	1	1	1	0	0	0	1	-	0	1	0	1	0	1	1	0	1
17	7648434	7648483	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	7803164	7803220	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
17	7964604	7964647	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
17	8269403	8269412	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
17	8859712	8859759	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
17	8896891	8896903	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
17	8912298	8912347	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1	1
17	8936225	8936237	2	1	1	1	1	1	1	1	1	-	1	0	-	1	1	1	1	1	0	1	1	-	1
17	8958818	8958829	3	0	1	0	0	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
17	8959003	8959051	3	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
17	8959166	8959197	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	9123921	9123943	3	1	1	0	1	1	0	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
17	9242386	9242469	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
17	9274385	9274394	3	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	9464686	9464763	4	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	9471094	9471134	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
17	9527102	9527174	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
17	10015108	10015142	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1	1	1
17	10059069	10059080	2	1	1	1	1	1	1	1	1	0	0	0	1	0	1	1	1	1	0	1	1	0	1
17	10678195	10678287	5	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
17	10689031	10689074	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
17	10753250	10753290	3	1	1	1	1	1	1	-	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
17	14019042	14019129	5	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	14019958	14020029	5	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	14019996	14020060	5	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	14304870	14304931	5	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	14305684	14305748	4	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	14309234	14309287	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
17	14373854	14373900	2	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1	0	1	1	0	0
17	14443848	14443855	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
17	14746816	14746912	3	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
17	15059751	15059795	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
17	16246732	16246788	5	1	1	1	1	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1	1	1	0
17	16373462	16373493	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1
17	16409020	16409115	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
17	16515690	16515742	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	16968071	16968130	6	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
17	17080905	17080997	2	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	17176434	17176525	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	17176522	17176600	6	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	17222933	17223010	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1
17	17225785	17225869	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	17392168	17392229	4	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1

17	17711090	17711188	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
17	17711214	17711290	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
17	17842288	17842374	5	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
17	17870145	17870213	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
17	18180001	18180085	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
17	18220666	18220700	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1
17	18220785	18220882	5	1	1	1	1	1	0	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1
17	18624296	18624352	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
17	18931658	18931724	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
17	19003506	19003511	2	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	19278555	19278576	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1
17	19723576	19723656	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
17	19903466	19903513	3	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1
17	19978602	19978695	5	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
17	20844154	20844173	2	0	1	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	21040809	21040822	2	0	0	0	0	0	1	0	0	0	0	0	-	0	0	0	0	0	0	0	0	0
17	21209224	21209312	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
17	21267838	21267859	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
17	21282429	21282520	5	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	0	1	1	0
17	21353525	21353536	2	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	1
17	21409535	21409545	2	1	1	-	1	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	27219307	27219349	3	1	0	0	1	0	0	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1
17	27403619	27403651	3	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
17	27578098	27578185	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
17	27647894	27647940	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
17	28057200	28057248	4	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0
17	28385153	28385196	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
17	28633945	28633958	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
17	28906901	28906949	3	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1
17	28983807	28983819	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	0	1
17	29307461	29307477	3	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	29596963	29597059	3	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1
17	29649546	29649634	3	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
17	29707013	29707079	6	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	1	0	1
17	29707108	29707149	5	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	1	0	1
17	29753533	29753594	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1
17	29923672	29923768	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
17	29923721	29923780	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
17	29923777	29923839	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1
17	30105222	30105286	5	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	30969436	30969453	2	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1
17	30970459	30970464	2	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	31312274	31312373	3	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	1
17	32328639	32328708	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1
17	32348794	32348807	2	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
17	34229017	34229113	3	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	0	1	1	1
17	34969893	34969964	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	34989060	34989123	5	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	35003369	35003419	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1
17	35185547	35185631	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1
17	35240700	35240773	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
17	35241550	35241579	4	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
17	35530173	35530184	2	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
17	35531676	35531681	2	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	35532166	35532262	6	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	35537133	35537160	3	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1
17	35830031	35830090	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
17	35878054	35878102	4	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	35878241	35878263	2	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	35879371	35879411	4	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

17	35879519	35879530	2	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
17	35879593	35879615	2	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
17	35880250	35880330	5	1	1	0	1	0	0	1	1	1	1	1	1	-	1	0	1	1	0	1	1	1
17	35965294	35965384	6	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	36154585	36154604	2	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1
17	36182356	36182373	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
17	36387313	36387390	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
17	36437914	36437977	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
17	36597391	36597420	2	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
17	37285257	37285303	2	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	37607812	37607852	4	0	0	0	0	0	0	1	1	1	1	1	1	0	1	0	0	1	0	1	0	1
17	37848228	37848277	4	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	38460372	38460434	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
17	38460552	38460586	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
17	38507221	38507232	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	38895594	38895607	2	1	1	1	1	1	1	1	1	1	1	0	-	1	1	1	1	1	1	1	1	1
17	38913668	38913769	7	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1
17	38913694	38913774	6	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1
17	39018089	39018164	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	39018312	39018381	6	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
17	39292650	39292716	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1
17	39755675	39755684	2	0	1	0	0	1	0	1	1	1	1	1	1	0	1	0	0	1	0	0	1	1
17	39758627	39758702	3	1	1	0	1	1	0	1	1	1	1	1	1	0	1	0	1	1	0	1	1	1
17	39924159	39924188	4	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	39966925	39967013	4	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	39969569	39969579	2	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	1
17	40351772	40351796	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	0	1	1
17	40473732	40473781	5	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
17	40482634	40482641	2	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	40517708	40517803	3	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	40517996	40518059	3	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	40602659	40602666	2	0	0	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
17	41500744	41500807	3	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
17	41818688	41818751	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
17	42015809	42015850	4	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
17	42115696	42115748	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1
17	42116248	42116341	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1
17	42129769	42129807	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	1
17	42207616	42207665	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	42250645	42250722	6	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	42378129	42378226	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
17	42378223	42378316	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
17	42378271	42378350	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
17	42382111	42382122	2	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	-	1
17	42483996	42484011	2	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	42524055	42524088	3	1	0	0	1	0	0	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1	1
17	42524578	42524641	4	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
17	42684662	42684754	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
17	43660076	43660147	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	43660310	43660397	3	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
17	44215310	44215345	3	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	44266646	44266743	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	44266819	44266868	3	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0
17	44283133	44283182	3	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	44283687	44283692	2	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	44346832	44346883	3	1	1	1	1	1	1	1	1	1	1	1	1	-	1	1	1	1	0	1	1	1	1
17	44425644	44425675	2	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	44847288	44847327	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
17	45249230	45249247	3	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	46171232	46171280	5	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1

17	46779801	46779877	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
17	46992315	46992414	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
17	47300522	47300555	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
17	47349797	47349862	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
17	47715443	47715534	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
17	47729052	47729133	4	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	47729126	47729198	4	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	47729163	47729228	3	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	47738676	47738688	2	1	1	1	1	1	0	1	1	1	1	1	1	1	1	-	1	1	1	1	1	1
17	47740125	47740153	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
17	48109405	48109495	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
17	48109669	48109740	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
17	48310986	48311030	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0
17	48311102	48311198	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0
17	48554445	48554489	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
17	48554456	48554511	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
17	48554603	48554664	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
17	48554777	48554834	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
17	48554791	48554837	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
17	48774307	48774385	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
17	48906537	48906586	2	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	0	1
17	49512874	49512955	8	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	49554174	49554211	4	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
17	49596742	49596787	3	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	49735245	49735252	2	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	0	1	1	1	1	1
17	50449140	50449238	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	50632717	50632813	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
17	50917613	50917694	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
17	55433430	55433510	4	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
17	55720851	55720925	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
17	56918061	56918123	3	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	1
17	56984052	56984095	4	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
17	57096997	57097091	3	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
17	57464868	57464960	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
17	57468754	57468822	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1
17	57498383	57498440	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
17	57575332	57575426	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
17	57610222	57610314	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	57619529	57619598	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
17	57624427	57624521	4	1	1	1	1	1	1	0	1	0	0	0	1	0	0	1	1	0	1	1	1	0	1
17	57646687	57646769	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	57905573	57905588	3	1	1	1	1	1	1	0	1	0	0	0	1	-	0	1	0	0	0	1	1	0	1
17	58206117	58206163	7	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	58206488	58206542	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	58274924	58274967	2	1	-	1	1	1	1	1	1	0	1	1	-	1	0	1	1	0	1	1	1	1	1
17	58324619	58324639	4	0	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	58331192	58331227	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
17	58992401	58992475	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
17	59032396	59032483	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
17	59032440	59032512	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
17	59032448	59032528	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
17	59135075	59135088	2	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
17	59170976	59171027	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
17	59170986	59171032	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
17	59280545	59280605	3	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1
17	59280590	59280657	4	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1
17	59656861	59656953	3	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
17	59685061	59685115	3	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	59748022	59748090	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
17	59752107	59752141	2	1	0	0	1	0	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1

17	59903622	59903640	2	1	0	1	1	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1	1	1
17	60059906	60059987	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	60082534	60082584	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	0	0
17	60424596	60424614	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1
17	60550818	60550851	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
17	60550822	60550858	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
17	61110366	61110396	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
17	61241436	61241479	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	61605470	61605513	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
17	62737593	62737637	2	1	0	0	1	0	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
17	63707316	63707325	2	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
17	63754029	63754102	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1
17	64066626	64066657	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
17	64132242	64132336	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
17	64132364	64132456	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	64174680	64174722	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1
17	64186373	64186466	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1
17	64214093	64214128	4	1	1	1	1	1	1	0	0	1	1	1	0	1	1	1	1	1	1	1	1	1
17	64214144	64214223	4	1	1	1	1	1	1	0	0	1	1	1	0	1	1	1	1	1	1	1	1	1
17	64214197	64214298	3	1	1	1	1	1	1	0	0	1	1	1	0	1	1	1	1	1	1	1	1	1
17	64322775	64322866	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
17	64403166	64403210	2	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	-
17	64405496	64405565	4	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	0	1	1	1	0	-
17	64405522	64405615	3	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	0	1	1	1	0	-
17	64948804	64948845	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
17	64954677	64954749	5	1	0	0	1	0	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
17	65028085	65028096	3	1	0	0	1	0	0	1	1	1	1	1	1	1	1	1	1	1	0	1	-	1	1
17	65074839	65074930	5	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0
17	65593288	65593341	5	0	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	65593301	65593384	5	0	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	66250687	66250707	2	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	66304117	66304176	3	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	66374175	66374275	4	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	66399140	66399167	3	0	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	66400260	66400300	2	1	1	1	1	0	0	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
17	66470582	66470674	3	1	0	0	1	0	0	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1	1
17	66508363	66508394	4	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1
17	66534522	66534561	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
17	66706568	66706618	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
17	66774197	66774236	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
17	66774318	66774402	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
17	66786118	66786152	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
17	66786241	66786297	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
17	66952325	66952379	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
17	67287781	67287860	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	67362363	67362414	4	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	67393907	67393964	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
17	67398767	67398809	4	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	67398878	67398977	4	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	67398940	67399039	5	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	67398962	67399045	5	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	67398985	67399079	5	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	67399042	67399141	7	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	67402017	67402087	3	1	1	1	1	1	1	0	1	0	0	0	1	1	0	0	1	0	1	1	1	0	1
17	67402884	67402960	5	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
17	67407663	67407752	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
17	67407707	67407783	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
17	67450447	67450530	3	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
17	67450549	67450625	5	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
17	67575963	67575988	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

17	67578286	67578294	2	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	0	1
17	67870791	67870857	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
17	67989466	67989521	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
17	68094205	68094224	3	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	68235759	68235799	3	1	1	0	1	1	0	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1
17	68320103	68320200	6	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
17	68442388	68442398	2	1	1	1	1	1	1	-	1	0	1	0	1	1	0	1	1	0	1	1	1	0	1
17	68460097	68460112	2	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
17	71332252	71332264	2	1	1	1	1	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1	1	1	1
17	72392382	72392404	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
17	72708965	72709006	5	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	72716242	72716307	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
17	72716400	72716498	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
17	72733105	72733186	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
17	73026022	73026058	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
17	73096540	73096553	2	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	0	1	1	1	1
17	73261772	73261825	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	73288632	73288645	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
17	73308548	73308566	2	1	1	1	1	1	1	0	1	1	1	0	1	1	1	1	1	1	1	1	1	1	0
17	73667680	73667692	2	1	1	1	1	1	1	0	1	0	0	0	1	1	0	0	1	0	1	1	1	1	1
17	74261821	74261850	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
17	74290588	74290647	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0
17	74755735	74755769	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
17	75045052	75045107	4	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	75078708	75078760	4	1	1	1	1	1	1	1	1	1	1	0	1	0	1	1	1	1	0	1	1	0	0
17	75292914	75292942	4	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
17	75296249	75296321	5	1	1	1	1	1	1	1	1	0	0	0	1	0	0	1	0	0	0	1	1	0	1
17	75308941	75308983	4	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
17	75314236	75314253	2	1	1	1	1	1	1	1	1	1	0	0	1	1	0	1	1	1	0	1	1	0	1
17	75319547	75319632	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
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17	75439762	75439780	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	75448637	75448690	3	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1
17	75467555	75467627	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
17	75664001	75664030	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1	1
17	76064004	76064009	2	0	0	0	1	0	0	0	1	1	1	1	1	0	1	1	1	1	0	1	0	1	1
17	76064057	76064066	2	0	0	0	1	0	0	0	1	1	1	1	1	0	1	1	1	1	0	1	0	1	1
17	76146283	76146335	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
17	76162469	76162497	3	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	76193799	76193852	3	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	76256480	76256505	3	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	76260620	76260701	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
17	76261421	76261496	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
17	76261439	76261538	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
17	76261535	76261626	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
17	76261575	76261666	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
17	76328835	76328921	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
17	76494665	76494710	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
17	76517805	76517844	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	1
17	76627923	76627971	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
17	76682621	76682626	2	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
17	76713385	76713399	3	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	76725155	76725200	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	77100257	77100331	7	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
17	77107767	77107776	2	1	1	1	0	0	0	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1	1
17	77144857	77144952	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
17	77144890	77144974	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
17	77147517	77147578	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1	1
17	77212892	77212927	3	1	1	1	1	1	1	1	1	0	0	0	1	0	0	1	1	1	0	1	1	0	1
17	77287097	77287129	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	0

17	77309337	77309362	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0
17	77323303	77323330	2	1	1	1	1	1	1	1	1	0	0	0	-	0	1	1	0	1	0	0	1	0	0
17	77378015	77378024	2	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	77378486	77378491	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	77432082	77432128	3	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	77432323	77432335	2	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	77453460	77453499	4	0	0	0	0	0	0	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1	1
17	77458601	77458673	3	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1
17	77459051	77459076	4	0	0	0	0	0	0	1	1	1	1	1	1	0	1	0	0	1	0	1	0	1	1
17	78124707	78124730	4	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
17	78153034	78153042	2	1	1	1	1	1	1	1	1	1	1	1	1	-	1	1	0	1	0	1	1	1	1
17	78153415	78153465	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1	1
17	78188626	78188699	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
17	78285388	78285454	3	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
17	78293994	78294001	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	1
17	78325468	78325567	5	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	0
17	78351514	78351614	4	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	0	1	1	1	0	0
17	78415924	78415954	3	1	1	1	1	1	1	0	1	1	1	0	0	1	1	1	1	0	1	1	1	0	1
17	78732785	78732828	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
17	78804861	78804888	2	1	0	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
17	78844214	78844290	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
17	79111711	79111798	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
17	79508718	79508757	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
17	79508736	79508831	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
17	79508817	79508863	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
17	79510293	79510364	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
17	79514312	79514343	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
17	79516760	79516786	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
17	79610078	79610113	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	-
17	79983671	79983710	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
17	79994749	79994821	3	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
17	80160053	80160148	7	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	80207040	80207052	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	1
17	80207213	80207278	4	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1
17	80208656	80208702	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
17	80212879	80212914	4	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
17	80213056	80213068	3	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	1	1	1	1	0	1
17	80216055	80216068	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1
17	80550996	80551081	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
17	80604821	80604828	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	80606041	80606117	7	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
17	80606103	80606174	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
17	80606171	80606263	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
17	80640174	80640180	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	80708799	80708876	4	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	80727037	80727072	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
17	80731380	80731477	4	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1
17	80743495	80743504	3	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	80792105	80792113	2	1	0	0	1	0	0	1	1	0	0	1	1	1	1	1	1	1	0	1	0	1	0
17	80812554	80812634	4	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
17	80881431	80881470	4	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
17	80910685	80910755	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1	1
17	81056756	81056771	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	81056821	81056920	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
17	81081764	81081782	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	0	1	1	1
17	81108015	81108112	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
17	81133396	81133463	3	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1
17	81153424	81153455	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	0	1	1	0	1
17	81155103	81155171	5	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
17	81171770	81171789	3	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1

17	81172146	81172165	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	0	1
17	81204767	81204843	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
17	81209647	81209685	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
17	81467667	81467742	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
17	81598707	81598765	4	1	1	1	1	1	1	1	1	0	0	0	1	0	0	1	0	1	0	1	1	0	1
17	81646868	81646915	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	81662817	81662873	4	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	81662930	81663012	4	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	81662954	81663037	4	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	81704758	81704840	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
17	81704777	81704877	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
17	81818883	81818962	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
17	81818908	81818987	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
17	81818921	81819000	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
17	81836213	81836272	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
17	81837639	81837724	4	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
17	81894056	81894138	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
17	81963838	81963843	2	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
17	81966191	81966235	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
17	82112598	82112664	3	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	82112787	82112844	6	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	82120443	82120485	4	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	82121722	82121750	3	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1
17	82127443	82127458	3	0	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
17	82155318	82155418	5	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1
17	82206762	82206797	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	82206776	82206870	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	82231842	82231865	4	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	82234284	82234363	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
17	82306041	82306104	3	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
17	82316823	82316912	6	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1
17	82412648	82412712	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	0	1	1	1
17	82412748	82412822	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	0	1	1	1
17	82434709	82434754	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	0	1	0	1	1	1	1
17	82435775	82435805	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
17	82449502	82449554	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
17	82548031	82548091	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
17	82575846	82575940	10	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	82707804	82707817	2	1	1	1	1	1	1	1	1	0	0	0	1	0	1	1	1	1	0	1	1	0	1
17	82776693	82776718	3	1	1	1	0	1	0	1	1	1	1	1	1	0	1	0	1	1	0	1	1	1	1
17	82776699	82776762	3	1	1	1	0	1	0	1	1	1	1	1	1	0	1	0	1	1	0	1	1	1	1
17	82819005	82819080	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
17	82836445	82836461	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0
17	82837245	82837331	4	1	1	1	1	1	1	0	1	0	0	0	1	1	0	0	1	1	1	1	1	0	1
17	82848262	82848330	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
17	82848475	82848561	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
17	82871561	82871614	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
17	82871736	82871772	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
17	82874043	82874070	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1
17	82909696	82909729	5	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	82910119	82910212	5	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	82915386	82915433	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	0	1	1	1
17	82973394	82973462	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
17	83025901	83025934	4	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	83026188	83026250	5	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	83026398	83026482	4	1	1	1	0	0	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
17	83026457	83026530	3	1	1	1	0	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
17	83110271	83110304	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
17	83131708	83131716	2	1	1	1	1	1	1	0	0	1	1	0	1	1	1	1	1	1	1	1	0	1	
17	83137099	83137142	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1

17	83145977	83146015	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
17	83152971	83153029	6	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	0
17	83153378	83153409	4	1	1	1	1	1	1	1	1	0	0	0	1	0	0	1	1	1	0	1	1	0	1
17	83199584	83199621	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
17	83203364	83203392	3	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
18	405443	405464	2	1	1	1	1	1	1	1	1	0	1	-	1	1	1	1	1	1	1	1	1	1	1
18	406380	406442	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
18	406424	406487	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
18	656587	656606	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
18	2645309	2645390	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18	2645349	2645434	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18	2939584	2939643	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18	2940095	2940148	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18	2965453	2965458	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18	3260331	3260422	5	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18	3319556	3319626	3	1	0	0	1	0	0	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1	1
18	3655809	3655831	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18	9524680	9524729	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18	9775237	9775313	4	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
18	10392052	10392088	3	1	1	-	1	1	0	1	1	1	1	1	1	-	1	1	1	1	0	1	0	1	1
18	10536641	10536694	2	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1
18	10578316	10578362	4	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18	11878534	11878598	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-	1	1	-
18	11885722	11885767	6	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	1	0	1	1	0	1
18	11885827	11885895	4	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	1	1	1	1	0	1
18	11892434	11892531	3	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
18	11946390	11946470	3	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	1	0
18	11946516	11946589	4	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
18	11972539	11972557	3	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
18	12323180	12323277	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
18	12327768	12327840	3	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18	12327877	12327934	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18	12477821	12477894	3	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
18	12568112	12568135	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
18	12920956	12921013	3	1	1	0	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
18	12921001	12921047	3	1	0	0	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1
18	13055373	13055379	2	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18	13284986	13285013	3	1	0	0	1	0	0	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1	0
18	13374911	13375007	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
18	13375822	13375869	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
18	13383527	13383600	5	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
18	13383749	13383839	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
18	13383986	13384081	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
18	13437015	13437108	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
18	13495282	13495351	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
18	13501416	13501446	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0
18	13798755	13798835	3	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18	14459311	14459316	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
18	21593454	21593484	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
18	23251381	23251447	4	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
18	23307631	23307669	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
18	23393193	23393206	2	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
18	23421698	23421717	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
18	23488402	23488460	3	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
18	23541340	23541424	4	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18	23571071	23571106	2	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
18	23872765	23872792	2	0	1	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
18	23967775	23967790	2	1	1	0	1	1	0	1	1	0	0	0	1	0	0	0	0	0	0	1	1	0	1
18	23994817	23994830	3	1	0	0	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	0
18	24080871	24080909	2	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

18	24169551	24169617	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
18	24331540	24331599	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
18	24465638	24465723	5	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	1
18	24624900	24624921	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
18	25978858	25978869	3	1	1	1	1	1	0	1	1	1	1	1	1	0	1	0	1	1	0	1	1	1
18	26261356	26261412	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
18	32106816	32106859	4	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1	1
18	32421538	32421599	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
18	35247888	35247918	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1
18	36078515	36078535	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
18	44681787	44681845	5	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	45048927	45048975	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
18	45723811	45723825	2	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
18	45830055	45830113	4	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1
18	46229407	46229412	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
18	46229503	46229510	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
18	47908712	47908754	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18	48595792	48595837	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
18	48777942	48777984	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	0	1
18	48782849	48782863	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0
18	48784197	48784213	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
18	48790618	48790679	4	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1
18	48800655	48800731	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
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18	48998067	48998072	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	0	1
18	49067560	49067573	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1
18	54217044	54217128	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
18	54221630	54221725	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
18	54743848	54743890	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
18	56057908	56057967	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
18	56928024	56928069	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
18	57438175	57438196	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
18	57622915	57622953	6	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18	58042680	58042770	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
18	58064198	58064255	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
18	58064209	58064257	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
18	58101535	58101596	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	0	1	1	1	1
18	58314625	58314647	2	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	0
18	58400687	58400752	5	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18	58625914	58626010	4	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18	58626015	58626088	2	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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18	59073413	59073460	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
18	59095212	59095239	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1
18	59849512	59849571	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1
18	62343273	62343329	5	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18	62469286	62469333	3	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1
18	63074350	63074398	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
18	63139362	63139430	3	1	1	1	1	1	1	1	1	1	1	1	1	-	1	1	0	1	0	1	1	1
18	63301616	63301625	2	1	1	0	1	1	0	1	1	0	0	0	1	1	0	1	1	1	0	1	1	-
18	64528106	64528173	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
18	70193879	70193901	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18	70324249	70324260	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18	74006293	74006352	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1
18	74242842	74242855	3	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1
18	74248155	74248238	4	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18	74248235	74248277	3	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
18	74248272	74248350	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18	74849298	74849326	4	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

18	74898117	74898123	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
18	74942243	74942267	2	1	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18	74942706	74942783	2	0	0	0	1	0	1	1	1	1	1	1	1	0	1	1	0	1	0	1	0	1	1
18	74996214	74996248	2	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
18	75037496	75037532	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
18	75072617	75072641	4	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
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18	75721741	75721746	2	1	1	1	1	1	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1	1	1
18	75846988	75847025	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
18	76460114	76460152	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
18	76546629	76546646	2	1	1	1	1	1	1	-	1	1	0	1	1	1	1	1	1	-	1	1	1	-	1
18	76819641	76819706	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
18	76928677	76928748	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
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18	77006642	77006721	4	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
18	77006673	77006768	5	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
18	77074283	77074341	3	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
18	77077976	77078040	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18	77092834	77092898	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
18	77093806	77093886	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
18	77093953	77094047	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
18	77114587	77114676	5	0	1	1	0	1	1	0	0	0	0	0	0	1	0	0	1	0	1	0	1	0	0
18	79327546	79327603	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
18	79397387	79397425	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
18	79397500	79397534	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
18	79397686	79397692	2	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18	79397860	79397953	8	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
18	79397890	79397988	7	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
18	79397985	79398074	7	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
18	79401565	79401653	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
18	79402158	79402219	6	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18	79405069	79405085	3	1	0	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	0	1	1
18	79405244	79405249	2	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
18	79496382	79496404	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	0	1	1	1
18	79707806	79707833	3	1	-	0	1	0	0	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
18	79741065	79741148	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
18	79795006	79795030	4	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
18	79914182	79914239	4	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18	79934314	79934350	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
18	79943309	79943372	8	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18	79953137	79953230	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
18	79962498	79962560	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0
18	79963192	79963273	7	1	0	0	1	0	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
18	79963649	79963702	3	1	0	0	1	0	0	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1	1
18	79963699	79963746	3	1	1	0	1	0	0	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
18	79963952	79964005	2	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1
18	79983881	79983889	2	1	1	1	0	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
19	361287	361310	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	433978	434074	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	582975	582984	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	0	1	1	0	0
19	616098	616110	2	0	0	1	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	637586	637644	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
19	643487	643518	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
19	647701	647778	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
19	648175	648226	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
19	777878	777973	3	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	830920	830961	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
19	939483	939534	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1

19	939799	939812	2	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0	1
19	948954	949010	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
19	949831	949924	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
19	949959	950052	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
19	950020	950067	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
19	950165	950212	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
19	955371	955456	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
19	961506	961587	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
19	975520	975572	4	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	1046882	1046927	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
19	1074113	1074144	4	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	1074765	1074793	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
19	1074968	1075010	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
19	1075037	1075107	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
19	1077863	1077880	2	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1
19	1077969	1077974	2	0	0	0	0	0	0	1	1	1	1	0	1	1	1	1	1	1	1	1	0	0	1
19	1079734	1079754	5	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	1090855	1090880	3	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	1130128	1130215	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
19	1130231	1130287	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
19	1144158	1144207	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
19	1155168	1155200	4	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	0
19	1155184	1155228	4	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	0
19	1155187	1155247	4	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	0
19	1155197	1155259	4	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	0
19	1155291	1155325	4	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	0
19	1163261	1163353	10	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	1
19	1263656	1263697	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
19	1264475	1264557	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
19	1264620	1264682	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
19	1264964	1264969	2	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1	1
19	1314002	1314033	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
19	1412064	1412150	2	1	1	0	0	0	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
19	1413706	1413724	3	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
19	1423535	1423633	7	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
19	1423709	1423802	6	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
19	1443648	1443745	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
19	1590169	1590192	2	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	0	1	1	1	1	1
19	1632918	1632991	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	1647053	1647075	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	0	1	1	1
19	1647164	1647243	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	0	1	1	1
19	1647509	1647575	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
19	1647516	1647615	7	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
19	1647894	1647953	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
19	1648067	1648155	7	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
19	1648277	1648376	6	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
19	1648350	1648423	8	1	1	1	1	1	1	1	1	1	1	1	1	-	1	1	0	1	0	0	1	1	1
19	1648382	1648441	6	1	1	1	1	1	1	1	1	1	1	1	1	-	1	1	0	1	0	0	1	1	1
19	1648937	1648993	6	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
19	1650224	1650267	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
19	1656098	1656132	3	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	1788891	1788904	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	1834804	1834903	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	1836793	1836880	6	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	1872595	1872674	5	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	1882274	1882299	4	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1
19	1882960	1882979	3	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1
19	1921919	1921945	6	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	2068785	2068848	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
19	2112907	2112937	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1

19	2145979	2146034	4	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	2166125	2166201	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
19	2169976	2170027	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
19	2183416	2183432	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1
19	2187347	2187353	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1
19	2215177	2215192	2	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	2215497	2215511	2	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	2215602	2215663	9	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	2215690	2215731	5	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	2251696	2251746	4	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
19	2347992	2348056	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	2348307	2348359	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	2348309	2348408	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	2348354	2348418	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	2422094	2422176	3	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
19	2422199	2422263	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	2518121	2518151	3	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1
19	2540652	2540716	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	2540685	2540754	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	2540829	2540924	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	2540908	2540938	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	2540913	2541012	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	2540921	2541019	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	2541073	2541141	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	2596079	2596088	3	1	0	0	1	0	1	1	1	1	1	1	1	-	1	1	1	1	0	1	1	1
19	2602601	2602634	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	2614806	2614838	4	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0
19	2619609	2619701	3	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	2621829	2621855	3	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	1
19	2622367	2622410	4	1	1	1	1	1	0	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1
19	2623828	2623869	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1
19	2641955	2642022	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
19	2681562	2681604	3	1	1	1	1	1	1	1	1	0	0	0	1	0	0	1	0	1	0	1	1	0
19	2699870	2699903	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1
19	2729494	2729561	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
19	2775362	2775393	3	1	1	1	1	1	1	1	1	0	1	0	1	1	1	1	1	1	1	1	0	1
19	2810897	2810962	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	0	1	1
19	2810911	2810970	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	0	1	1
19	2943070	2943169	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	2966773	2966836	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1
19	3112713	3112738	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	3170117	3170130	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0
19	3173048	3173070	2	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	-	1	1	1
19	3179172	3179256	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
19	3179253	3179315	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
19	3179272	3179368	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
19	3179355	3179436	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
19	3179427	3179493	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
19	3179513	3179536	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
19	3184086	3184150	3	1	1	1	1	1	1	1	0	1	1	1	0	1	1	1	1	1	1	1	1	1
19	3191283	3191317	3	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1
19	3194521	3194621	5	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
19	3201342	3201381	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1
19	3201473	3201483	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1
19	3201883	3201951	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
19	3201983	3202077	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
19	3364432	3364445	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	3463276	3463301	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
19	3464183	3464251	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
19	3464350	3464406	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1

19	3494638	3494666	4	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
19	3509937	3510024	6	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
19	3540296	3540362	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
19	3548968	3549050	7	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
19	3642432	3642442	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
19	3670201	3670241	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
19	3685545	3685624	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	3685556	3685648	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	3690885	3690912	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
19	3953433	3953489	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	4075781	4075786	2	1	1	1	1	1	1	0	1	0	0	0	1	1	1	1	1	1	1	1	1	0	1
19	4075826	4075833	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	1
19	4113116	4113134	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	4190200	4190264	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
19	4382718	4382772	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	4420531	4420572	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	0
19	4464267	4464325	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
19	4652357	4652406	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
19	4652434	4652453	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
19	4657966	4658022	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
19	4657987	4658072	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
19	4691586	4691601	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	1
19	4693660	4693672	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
19	4713866	4713904	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	4718360	4718411	2	1	1	1	1	1	1	-	1	1	1	0	1	1	1	1	1	1	1	1	1	-	1
19	4720392	4720398	2	1	1	1	1	1	1	1	1	1	1	1	1	-	1	1	1	1	0	1	1	0	1
19	4721854	4721898	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
19	4864212	4864257	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
19	4901078	4901136	4	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
19	4950812	4950878	4	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
19	4960760	4960828	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	4980900	4980986	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
19	5091234	5091284	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	5139840	5139845	2	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	5141270	5141281	2	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0	1
19	5153266	5153332	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
19	5279826	5279886	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
19	5593483	5593562	5	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	5803025	5803072	6	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	5907497	5907512	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1
19	5927759	5927848	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
19	5974802	5974819	2	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1	1
19	5974816	5974824	2	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1	1
19	5995541	5995639	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
19	5996893	5996970	6	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	6039836	6039925	7	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
19	6230962	6231032	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
19	6248933	6248997	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1
19	6668968	6669008	3	1	0	0	1	0	0	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1
19	6744920	6744970	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	6744947	6745005	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	6753609	6753629	4	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
19	6849997	6850023	2	1	1	0	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	0
19	6865127	6865153	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	7369056	7369073	3	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	1
19	7387440	7387452	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
19	7387699	7387710	2	1	0	0	1	0	0	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1	1
19	7387729	7387740	2	1	0	0	1	0	0	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1	1
19	7387771	7387783	2	1	0	0	1	0	0	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1	1
19	7541025	7541067	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1

19	7648320	7648381	2	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
19	7923838	7923859	3	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	0	1	1	1
19	7926685	7926735	4	1	1	1	1	1	1	0	1	1	1	0	1	1	1	1	1	1	1	1	1	1
19	8192262	8192269	2	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1
19	8197208	8197241	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1
19	8303936	8303973	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	8502898	8502911	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
19	8547551	8547592	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1
19	8573822	8573838	2	1	1	0	1	1	0	0	1	0	0	0	1	1	0	0	1	0	0	1	1	0
19	8759788	8759841	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	9151491	9151499	2	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	9791056	9791130	2	1	1	1	1	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1	1	1
19	9857393	9857402	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	10107309	10107353	3	1	0	0	1	0	0	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1
19	10133186	10133263	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	10167569	10167651	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1
19	10197359	10197421	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1
19	10206409	10206451	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1
19	10273128	10273222	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
19	10273431	10273489	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
19	10273738	10273836	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
19	10273825	10273876	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
19	10273841	10273940	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
19	10295361	10295425	6	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
19	10334208	10334268	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	10334240	10334278	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	10334519	10334575	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	10334663	10334700	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
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19	10334743	10334842	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	10338089	10338127	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1
19	10375832	10375860	4	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
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19	10404999	10405023	2	-	-	-	0	0	1	-	-	0	1	0	-	-	0	0	0	0	0	-	-	0	0
19	10409640	10409645	2	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1
19	10516511	10516541	2	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
19	10616959	10617009	5	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
19	10617006	10617080	4	1	1	1	1	1	1	1	0	1	1	1	0	1	1	1	1	1	1	1	1	1
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19	10724556	10724603	2	1	1	1	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1	1	-	1
19	10731599	10731642	4	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	1
19	10737844	10737904	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1
19	10738994	10739038	4	1	1	1	1	1	1	1	1	1	1	0	1	0	1	1	0	1	0	1	1	0
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19	10908091	10908132	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	11031934	11031994	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
19	11033501	11033568	6	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	11046679	11046755	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1
19	11179143	11179242	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1
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19	11361431	11361466	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
19	11361511	11361587	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
19	11562819	11562830	2	1	1	1	1	1	1	0	1	0	0	0	1	1	1	1	1	1	1	1	0	1
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19	11626414	11626437	3	1	1	1	1	1	1	-	1	0	0	0	1	1	0	1	1	1	1	1	0	1
19	11986980	11986999	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
19	12000330	12000403	2	1	0	0	1	0	0	1	1	1	1	1	1	0	1	1	0	1	0	0	0	1	1

19	12035240	12035271	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	12664916	12664973	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
19	12735623	12735704	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
19	12788737	12788745	2	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	12794904	12795001	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	12799870	12799956	5	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
19	12799899	12799975	5	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
19	12887077	12887130	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
19	13041561	13041625	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
19	13188005	13188097	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
19	13209331	13209376	8	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1
19	13719910	13719995	5	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
19	13719934	13720026	5	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
19	13801066	13801131	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	13897257	13897290	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
19	14019151	14019190	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1
19	14373081	14373102	2	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	15212997	15213053	3	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	0	1
19	15253695	15253742	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1
19	15301269	15301292	3	1	0	0	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
19	15362590	15362621	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	15388741	15388790	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	15395799	15395878	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	15395851	15395940	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	15395899	15395980	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	15457272	15457297	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	15457280	15457322	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	15457298	15457336	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	15457302	15457357	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	15457310	15457368	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	15457319	15457417	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	15457388	15457437	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	15457414	15457451	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	15457446	15457462	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	15457495	15457567	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	15457588	15457613	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	15457737	15457762	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	16083956	16084029	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
19	16084074	16084141	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
19	16167601	16167631	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1
19	16182632	16182649	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
19	16208552	16208571	2	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	16208684	16208722	4	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	16209812	16209898	3	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	16217485	16217579	4	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	16218317	16218368	2	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	16218365	16218378	2	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	16234761	16234839	6	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	16234903	16234956	3	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	16235015	16235027	3	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	16236411	16236427	2	1	1	1	0	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1
19	16302669	16302704	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1
19	16302701	16302798	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1
19	16326987	16327008	4	0	0	0	0	0	0	1	1	1	1	1	1	0	1	0	0	1	0	1	0	1	1
19	16331820	16331917	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
19	16335660	16335736	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
19	16369815	16369856	3	0	0	0	0	0	0	1	1	1	1	1	1	0	1	0	0	1	0	1	0	1	1
19	16383833	16383931	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1	1
19	16443445	16443532	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
19	16443640	16443666	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1	1

19	16443657	16443756	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
19	16443739	16443832	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
19	16443766	16443848	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
19	16446304	16446386	3	1	1	1	1	1	1	0	1	1	1	1	1	0	1	0	0	1	0	0	1	1	1
19	16448035	16448086	3	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
19	16451749	16451782	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	16451763	16451810	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	16458922	16458983	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0	1	0	1	1	1	1	1
19	16649981	16650053	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
19	16650001	16650088	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
19	16838398	16838495	5	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1
19	17055817	17055825	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	0	1	1	1	1	1
19	17055845	17055853	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
19	17095470	17095565	3	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	1
19	17096924	17096971	4	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
19	17101953	17101978	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
19	17101996	17102079	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
19	17102246	17102316	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
19	17132345	17132377	2	1	1	1	1	1	1	1	1	0	1	1	-	1	1	1	1	1	1	1	1	1	1
19	17135502	17135548	3	0	1	1	0	1	1	0	0	0	0	0	-	0	0	0	0	0	0	0	1	0	0
19	17135540	17135552	3	0	1	1	0	1	1	0	0	0	0	0	-	0	0	0	0	0	0	0	1	0	0
19	17135545	17135560	3	0	1	1	0	1	1	0	0	0	0	0	-	0	0	0	0	0	0	0	1	0	0
19	17135636	17135650	2	0	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
19	17149591	17149599	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	1
19	17160859	17160952	3	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	17161046	17161097	5	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	17161284	17161376	4	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	17184788	17184820	3	0	0	0	0	1	0	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1
19	17211051	17211108	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
19	17499113	17499212	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
19	17557745	17557831	4	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
19	17738519	17738617	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
19	17738663	17738709	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
19	17904697	17904738	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
19	17943055	17943130	5	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	18002733	18002771	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
19	18108118	18108209	4	1	1	1	1	1	1	1	1	1	1	1	1	-	1	1	0	1	0	0	1	1	1
19	18149403	18149438	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
19	18149539	18149576	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
19	18169014	18169095	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
19	18169342	18169407	6	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
19	18171053	18171070	2	1	1	1	1	1	1	1	1	0	0	0	1	0	0	1	0	1	0	1	1	0	0
19	18175196	18175234	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
19	18194826	18194867	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	18274861	18274884	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	0
19	18274940	18275020	3	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	1	1	1	1	0	0
19	18384854	18384883	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	0	1	1	1	1
19	18420717	18420726	2	1	1	0	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	18474859	18474922	4	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
19	18490677	18490724	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
19	18492493	18492559	2	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
19	18494453	18494458	2	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	18501172	18501267	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
19	18504372	18504377	2	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1
19	18621723	18621819	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
19	18622266	18622334	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
19	18661630	18661666	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1
19	18714028	18714037	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
19	18743304	18743391	6	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	18743438	18743465	5	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0

19	18839153	18839218	3	1	1	0	1	0	0	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
19	18842940	18842961	3	1	1	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
19	18949720	18949727	2	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1
19	19112184	19112227	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
19	19128195	19128294	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	19155642	19155678	2	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1	1
19	19157435	19157504	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
19	19174627	19174715	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
19	19182150	19182201	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	19285815	19285893	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	19389752	19389833	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	19389824	19389921	5	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	19389862	19389954	5	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	19421452	19421515	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
19	19471029	19471126	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
19	19471145	19471217	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
19	20176684	20176719	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	21745666	21745714	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	23197702	23197750	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	24908336	24908348	2	1	-	-	1	1	1	-	1	0	1	1	-	0	1	1	1	1	1	1	-	-	-
19	28727451	28727474	4	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	28727484	28727511	4	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	29303210	29303221	2	1	1	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	29679354	29679412	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
19	32490709	32490801	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	32977449	32977459	2	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	1	1
19	33030121	33030198	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
19	33126307	33126383	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	33235833	33235839	2	1	0	0	1	0	0	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1	1
19	33816143	33816196	2	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	1	1	1	1	0	1
19	34273704	34273726	2	1	1	1	1	1	1	1	1	1	1	1	1	-	1	1	0	1	0	1	1	1	1
19	34350532	34350614	3	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1
19	34350603	34350646	4	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1
19	34350641	34350728	6	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1
19	34367692	34367768	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
19	34368187	34368218	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	34369086	34369175	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	34369327	34369371	3	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	34458276	34458295	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	35014412	35014437	3	0	0	0	0	0	0	0	1	0	0	0	1	1	0	1	1	0	1	1	0	0	1
19	35075042	35075103	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1	1
19	35119772	35119821	2	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	0	1
19	35354998	35355098	6	1	1	1	1	1	0	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
19	35488047	35488130	5	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	35908233	35908280	3	1	1	1	1	1	1	0	0	0	0	0	0	1	0	0	0	0	1	0	1	0	1
19	36069842	36069872	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	36203719	36203769	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
19	36271759	36271785	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	36271780	36271854	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	36278836	36278910	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	36278887	36278929	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	36282388	36282423	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	36292627	36292652	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	36292685	36292772	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	36292706	36292804	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	36292789	36292883	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	36292830	36292927	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	36294253	36294277	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	36294723	36294820	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	36294747	36294842	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0

19	36294795	36294889	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	36294839	36294919	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	36298165	36298245	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	36300101	36300145	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	36304703	36304801	10	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	36304764	36304805	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
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19	36306364	36306396	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	36306390	36306447	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
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19	36492867	36492938	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1
19	36493033	36493105	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1
19	37281325	37281407	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	37281355	37281424	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	37281404	37281442	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	37281415	37281444	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	37282210	37282254	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	37282286	37282343	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	37294203	37294263	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0
19	37294387	37294440	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
19	37294449	37294467	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
19	37298474	37298557	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	37298593	37298693	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	37962389	37962397	2	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1
19	38033579	38033610	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1
19	38046655	38046737	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1
19	38120869	38120911	3	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
19	38122877	38122929	3	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
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19	38300694	38300763	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0
19	38306931	38306972	2	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1
19	38321738	38321820	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
19	38321892	38321931	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0
19	38548714	38548720	2	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
19	38559479	38559487	2	1	0	0	1	0	0	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1	0
19	38596389	38596416	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0
19	38616012	38616031	2	1	1	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
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19	38860721	38860817	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
19	38928284	38928358	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
19	39020946	39021013	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
19	39258668	39258701	3	1	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
19	39405455	39405502	3	0	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1	1
19	40273068	40273111	3	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	40360920	40360947	3	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	-	1
19	40361031	40361129	4	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
19	40361096	40361173	4	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
19	40361126	40361215	4	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
19	40513125	40513171	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
19	40579570	40579651	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
19	41302726	41302739	2	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1
19	41501520	41501621	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
19	41889037	41889089	3	0	1	1	0	0	0	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1
19	41889112	41889183	3	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1
19	41890013	41890019	2	1	1	1	1	1	0	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
19	41901904	41901927	4	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	42513458	42513547	4	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
19	42972545	42972600	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	43427624	43427674	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1

19	43560929	43560965	2	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
19	43688514	43688575	5	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
19	43752646	43752697	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
19	45029199	45029263	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	45088133	45088167	2	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
19	45098470	45098521	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	0
19	45119859	45119939	4	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	45137565	45137640	6	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
19	45444712	45444775	4	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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19	45912818	45912854	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
19	46303741	46303771	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0
19	46303913	46303949	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0
19	46304042	46304083	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0
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19	46733073	46733160	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	46734000	46734069	4	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
19	46734015	46734083	4	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
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19	46805917	46805958	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
19	46824345	46824356	3	1	1	1	1	1	1	1	1	0	0	0	1	0	0	1	0	1	0	1	1	0	1
19	46824646	46824682	3	1	1	1	1	1	1	1	1	0	0	0	1	0	0	1	0	1	0	1	1	0	1
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19	47094437	47094524	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
19	47189474	47189517	3	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	47302771	47302834	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
19	47475607	47475645	2	1	1	1	1	1	1	1	1	1	0	-	1	1	1	1	1	1	1	1	1	-	1
19	47497417	47497492	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	47497667	47497680	2	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	47607550	47607625	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
19	47664253	47664311	3	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	0
19	47668251	47668301	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	48194827	48194869	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
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19	48630107	48630189	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0
19	48675156	48675196	3	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	1
19	48753905	48753914	3	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	48876865	48876948	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
19	48891309	48891409	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
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19	48907918	48907929	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1
19	48909492	48909544	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1	1
19	48909535	48909612	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1	1
19	48909603	48909638	3	1	1	1	1	1	1	1	1	1	1	1	1	-	1	1	0	1	0	1	1	1	1
19	49032962	49033003	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	49054478	49054508	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	49125345	49125414	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
19	49169575	49169661	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
19	49326025	49326086	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1	1
19	49490801	49490842	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
19	49497957	49497996	4	1	0	0	1	0	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
19	49498005	49498083	3	1	0	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
19	49520738	49520833	4	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1
19	49521292	49521348	3	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1
19	49551407	49551498	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
19	49556492	49556515	4	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	49571260	49571346	4	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	49614545	49614608	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1

19	49776066	49776106	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
19	49823532	49823631	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1
19	49823694	49823770	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1
19	49870495	49870582	3	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
19	49872946	49872988	3	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
19	49894204	49894303	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
19	49903285	49903382	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
19	49907173	49907273	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
19	49908184	49908257	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
19	49908278	49908370	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
19	49923455	49923531	8	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	1	1	1	1	0
19	49923523	49923559	3	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	1	1	1	1	0
19	49981987	49982085	6	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
19	50003451	50003513	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
19	50377792	50377816	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
19	50417587	50417605	2	1	1	1	1	1	1	1	1	1	1	1	1	-	1	1	0	1	0	1	1	1
19	50543648	50543718	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
19	51136469	51136490	2	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	0
19	51371798	51371808	2	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
19	51372120	51372133	3	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
19	51389477	51389553	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
19	51738747	51738760	2	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	0	1	1	1	0
19	52820241	52820340	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	53845083	53845111	3	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0
19	54027164	54027169	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1
19	55228723	55228781	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
19	55228908	55228915	2	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
19	55246789	55246885	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	55246888	55246981	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	55299069	55299147	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
19	55326854	55326910	6	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	0	1	1	1	0
19	55533774	55533809	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
19	55533785	55533815	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
19	55626596	55626663	6	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1
19	55664294	55664343	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
19	55678171	55678207	3	1	1	1	1	1	1	1	1	0	0	0	1	0	0	1	0	1	0	1	1	0
19	56092023	56092032	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	56104130	56104179	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	56111733	56111810	4	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	56111797	56111826	4	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	312186	312248	3	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	1
20	419673	419692	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
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20	1683824	1683919	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
20	2885754	2885805	3	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1
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20	3019918	3019946	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
20	3813905	3813918	2	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
20	3825091	3825178	3	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
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20	4998866	4998955	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
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20	8224752	8224782	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
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20	11458529	11458562	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1
20	13430209	13430272	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
20	13995361	13995376	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
20	16392579	16392650	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1
20	17850069	17850096	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
20	19104699	19104760	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
20	19475063	19475106	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
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20	19823876	19823921	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
20	19823927	19823989	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
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20	20487564	20487586	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20	21128739	21128787	3	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
20	21559104	21559130	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
20	23097068	23097153	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0
20	23133768	23133782	2	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
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20	32228016	32228085	4	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0
20	32252164	32252183	3	1	0	0	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
20	32763288	32763317	4	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	32763376	32763425	4	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	33370582	33370614	2	1	1	0	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
20	33483400	33483436	3	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
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20	33777564	33777590	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1	1
20	33853570	33853612	3	-	-	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
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20	34526291	34526371	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
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20	34863520	34863572	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
20	34878926	34878969	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
20	35015246	35015297	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20	35479376	35479403	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
20	35508954	35509024	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1	1
20	35514765	35514798	2	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20	35722864	35722922	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
20	35835188	35835263	4	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20	35978436	35978491	3	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	1	1	1	1	0	1
20	36002214	36002264	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
20	36460765	36460773	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	0
20	36519432	36519449	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
20	36645562	36645616	5	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
20	36794299	36794340	5	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20	36932273	36932340	5	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
20	36998808	36998876	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
20	37094879	37094886	2	1	0	0	1	0	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
20	37295121	37295148	2	1	0	0	1	0	0	1	1	0	0	0	1	0	1	1	1	1	0	1	1	0	0
20	37317442	37317458	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	-	1
20	37383595	37383615	3	1	1	1	1	1	1	1	1	0	0	0	1	0	1	1	1	1	0	1	1	0	1
20	37845361	37845432	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20	37990716	37990767	3	1	1	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0	0	1	0	0
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20	38141333	38141348	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	0
20	38294172	38294220	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
20	38776440	38776489	3	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1
20	38928959	38929049	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
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20	40630257	40630270	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20	40994295	40994334	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
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20	41162497	41162537	5	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20	43725297	43725349	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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20	44237739	44237797	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
20	44554109	44554189	3	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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20	45895002	45895023	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20	45971216	45971247	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
20	46389003	46389020	2	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1
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20	46900822	46900896	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
20	47245363	47245373	3	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	0	1	1	1	1	1
20	47262795	47262860	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
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20	47390428	47390446	3	1	1	1	1	1	1	1	1	1	0	0	1	0	1	1	1	1	0	1	1	1	0

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20	48723861	48723930	3	1	1	1	1	1	1	0	1	0	0	0	1	1	0	0	1	0	0	1	1	0
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20	50415675	50415716	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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20	62292318	62292418	4	1	1	0	1	1	0	1	1	1	1	1	1	0	1	0	1	1	0	1	1	1	1
20	62337395	62337417	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
20	62337457	62337474	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1	1
20	62339259	62339332	4	1	1	1	1	1	1	1	1	1	1	1	1	-	1	1	0	1	0	0	1	1	1
20	62786077	62786162	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
20	62798455	62798461	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
20	62872434	62872511	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
20	62886382	62886434	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
20	63433353	63433450	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
20	63433376	63433458	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
20	63537387	63537480	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
20	63555075	63555129	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
20	63568515	63568552	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
20	63617182	63617281	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
20	63617274	63617357	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
20	63691879	63691926	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
20	63700914	63700987	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
20	63716275	63716323	4	1	1	0	1	0	0	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
20	63720742	63720751	2	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20	63730702	63730763	5	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	1
20	63874403	63874502	3	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
20	63874433	63874524	4	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
20	63874517	63874551	3	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	1	1	1	1	0	1
20	63906511	63906602	6	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
20	63907233	63907297	3	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
20	64087424	64087520	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
20	64087449	64087532	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
20	64087525	64087598	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
21	8151722	8151782	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	-
21	14063992	14064005	2	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
21	14064335	14064414	8	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
21	15219099	15219112	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1

21	15733614	15733638	3	1	1	0	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
21	15733789	15733822	4	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1
21	16025919	16025941	2	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21	16248262	16248296	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21	16588648	16588663	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
21	17812530	17812549	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21	26158296	26158305	2	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21	29174700	29174797	4	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
21	29174783	29174812	4	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
21	29174805	29174887	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21	29182278	29182289	2	1	1	0	1	1	0	1	1	0	0	0	1	0	0	1	1	1	0	1	1	0	0
21	30717887	30717983	5	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21	30717955	30718013	4	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21	31178338	31178347	2	1	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
21	31178374	31178400	2	1	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
21	31180007	31180064	4	1	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
21	31182948	31182981	3	1	0	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
21	31184165	31184206	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
21	31184907	31184912	2	0	-	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
21	31186550	31186581	2	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
21	31244406	31244492	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
21	31299625	31299654	2	1	-	0	1	0	0	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
21	31346536	31346573	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
21	32262493	32262513	2	1	1	1	1	1	1	-	1	1	0	0	1	1	0	1	1	0	1	1	1	0	1
21	32407914	32407923	2	1	1	1	0	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
21	32929488	32929538	3	1	1	0	1	1	0	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1
21	33223061	33223080	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
21	33228097	33228130	4	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
21	33228127	33228181	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
21	33269916	33269955	4	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
21	33296290	33296381	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
21	33296323	33296397	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
21	33380625	33380707	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
21	33397953	33397982	2	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1
21	33554760	33554838	6	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21	33758256	33758354	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21	33808011	33808061	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
21	33920462	33920470	3	1	1	-	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
21	33933817	33933865	3	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
21	33938277	33938329	3	1	1	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1	1
21	33984218	33984263	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
21	34074860	34074871	3	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	0
21	34102700	34102742	2	1	1	1	0	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
21	34178181	34178282	3	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21	34730395	34730490	5	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21	34730436	34730534	5	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21	34730460	34730560	5	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21	34823071	34823138	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	1
21	34886831	34886884	4	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	34887006	34887102	14	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	34887010	34887110	14	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	34887028	34887125	12	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	34887107	34887198	7	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	34991680	34991692	2	1	1	1	1	1	1	0	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1
21	35053045	35053099	2	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21	35228084	35228155	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
21	35940197	35940211	2	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1
21	36175643	36175663	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21	36253781	36253850	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1	1
21	36255385	36255418	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1	1

21	36260935	36260962	2	1	1	1	1	1	1	1	1	1	1	1	1	-	1	1	0	1	0	1	1	1	1
21	36428669	36428682	2	1	1	1	1	1	1	1	1	0	1	0	1	1	1	1	1	1	1	1	1	0	0
21	36942376	36942395	2	1	1	1	1	1	1	0	1	0	0	0	1	0	0	1	1	0	0	1	1	0	1
21	37225683	37225689	2	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	1
21	37232278	37232371	6	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
21	37378462	37378535	6	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21	39315503	39315561	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
21	39398237	39398304	4	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
21	39510066	39510105	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
21	39510086	39510145	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
21	40817922	40817966	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
21	40817951	40817970	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
21	41195685	41195724	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
21	41217195	41217226	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21	41230063	41230106	2	1	1	1	1	1	1	1	1	1	1	1	1	-	1	1	0	1	0	1	1	1	1
21	41922135	41922148	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1	1
21	42080245	42080270	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1
21	42290064	42290123	4	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
21	42545860	42545917	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21	42586518	42586560	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
21	42684765	42684809	4	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
21	42746777	42746824	4	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
21	42753968	42754042	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
21	42754337	42754401	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	
21	43333890	43333945	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	
21	43353381	43353468	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
21	43676565	43676577	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21	43690128	43690179	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
21	43690246	43690343	5	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1
21	43690686	43690721	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1
21	43733750	43733816	4	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
21	43740367	43740385	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21	43767869	43767930	4	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
21	43801232	43801243	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21	43920968	43921031	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
21	43977507	43977605	5	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1
21	44065268	44065274	2	1	0	0	1	1	0	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1	1
21	44065633	44065679	3	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	1	0	0	1
21	44091548	44091598	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
21	44293750	44293823	9	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21	44658100	44658152	6	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21	44849755	44849828	6	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
21	44851443	44851497	3	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21	44853867	44853933	6	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21	44917886	44917984	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
21	44928741	44928786	4	0	0	0	0	0	0	1	1	0	0	0	1	1	1	0	1	1	0	1	0	0	0
21	44951665	44951684	5	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21	44951985	44952013	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
21	44999840	44999902	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
21	45014839	45014931	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
21	45086685	45086716	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21	45267062	45267089	5	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21	45368154	45368225	5	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21	45368217	45368310	4	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21	45368291	45368386	6	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21	45411462	45411483	3	1	1	1	1	1	1	1	0	1	1	1	0	1	1	1	1	1	1	1	1	1	1
21	45496279	45496319	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
21	45555866	45555901	5	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	45556679	45556776	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
21	45633421	45633486	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0

21	45633444	45633493	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
21	46066927	46066988	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0
21	46257637	46257660	3	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
21	46368518	46368546	2	1	1	0	0	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
21	46388244	46388325	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
21	46406144	46406209	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
21	46410140	46410146	2	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
21	46425245	46425265	2	1	1	1	0	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
21	46425564	46425639	3	1	1	1	0	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
21	46437378	46437442	3	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21	46437478	46437535	4	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21	46437676	46437748	7	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21	46437897	46437991	4	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21	46438245	46438339	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21	46438414	46438466	3	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21	46438528	46438575	5	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21	46561541	46561561	3	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21	46561821	46561842	4	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21	46561890	46561913	2	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21	46566112	46566171	4	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
22	17231200	17231249	4	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1
22	17355521	17355569	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
22	17647902	17647946	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22	17652879	17652959	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
22	17824902	17824933	3	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
22	17862139	17862181	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
22	17888646	17888694	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
22	18084306	18084347	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	0	1	1
22	18140031	18140072	3	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
22	18184676	18184775	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
22	18368602	18368686	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
22	18492783	18492837	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
22	18492879	18492943	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
22	18493839	18493896	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
22	19097469	19097553	5	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1
22	19397351	19397357	2	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
22	19528515	19528591	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
22	19597655	19597662	3	0	0	0	0	0	0	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1
22	19721696	19721731	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
22	19723413	19723436	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
22	19881352	19881447	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
22	19884271	19884342	4	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22	19884399	19884404	2	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22	19885710	19885760	4	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22	19929064	19929156	3	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1
22	19958841	19958872	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1
22	20025130	20025197	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22	20025236	20025283	3	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
22	20025343	20025435	3	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
22	20025429	20025477	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
22	20025458	20025557	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
22	20035951	20035990	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
22	20037960	20038047	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
22	20039228	20039270	3	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22	20039267	20039358	3	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22	20039349	20039428	5	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22	20092733	20092777	3	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
22	20092835	20092914	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
22	20101346	20101394	4	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22	20101371	20101405	3	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

22	20138395	20138440	4	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0
22	20139764	20139776	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	0	1	1	1	1	1	1
22	20139823	20139859	4	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1
22	20147008	20147013	2	1	1	1	1	0	0	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1
22	20406295	20406345	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
22	20406419	20406506	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1
22	20425967	20426026	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
22	20475621	20475656	4	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
22	20475653	20475690	2	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
22	20748214	20748252	4	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
22	20876723	20876823	5	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1
22	21342660	21342687	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
22	21588818	21588899	4	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
22	21622592	21622640	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1
22	21688966	21689049	4	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
22	21688996	21689076	5	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
22	21738233	21738277	4	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
22	21766370	21766462	4	1	1	0	1	1	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
22	21786753	21786775	2	1	1	1	1	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22	22647638	22647678	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
22	22691126	22691196	2	1	1	1	1	1	1	-	1	0	0	0	1	1	0	1	1	0	1	1	1	-
22	23107209	23107293	3	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0
22	23208768	23208843	6	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1
22	23208785	23208851	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1
22	23216059	23216100	3	0	1	1	0	1	1	0	0	0	0	0	0	1	0	1	0	0	1	0	1	0
22	23661935	23661986	2	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
22	23752889	23752986	6	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1
22	23753032	23753127	6	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1
22	23799918	23799937	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1
22	23800675	23800740	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1
22	23801012	23801096	4	1	1	1	1	1	1	1	1	1	1	1	1	-	1	1	0	1	0	1	1	1
22	23803361	23803437	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1
22	23804782	23804822	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1
22	23804894	23804949	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1
22	24003961	24003977	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22	24134798	24134845	5	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22	24285703	24285708	2	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
22	24399291	24399343	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
22	24409803	24409899	5	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
22	24410075	24410088	2	1	1	0	0	0	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
22	24433798	24433863	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
22	24433860	24433902	2	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1	0	1	1	1
22	24589080	24589178	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
22	24589361	24589426	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
22	24648212	24648249	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
22	24648225	24648303	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
22	25068990	25069007	3	0	0	0	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
22	25392178	25392223	4	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1
22	25393609	25393675	4	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
22	25704200	25704234	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
22	26431736	26431797	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
22	26493423	26493481	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
22	26660919	26660965	4	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1
22	27252463	27252487	3	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	1	1	1	0	0
22	27421212	27421236	2	0	-	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0	0	1	0
22	27637250	27637323	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1
22	27678073	27678078	2	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	0	1	0
22	27773368	27773428	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
22	28347826	28347835	2	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22	28391735	28391819	4	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

22	28542303	28542347	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22	28752605	28752660	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
22	28793017	28793102	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
22	28793050	28793141	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
22	29137316	29137360	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
22	29164017	29164108	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
22	29192555	29192632	2	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
22	29215577	29215665	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
22	29364765	29364787	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1
22	29597275	29597307	3	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	1	1	1	1	0
22	29906945	29906980	3	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1
22	30019549	30019594	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
22	30079598	30079656	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
22	30243778	30243811	3	1	0	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22	30243835	30243841	2	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22	30243968	30243976	2	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22	30325759	30325845	4	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22	30506770	30506868	3	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0
22	30740765	30740770	2	1	0	0	1	0	0	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1
22	30881450	30881505	3	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
22	31289587	31289615	4	0	0	0	0	0	1	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1
22	31289591	31289652	4	0	0	0	0	0	1	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1
22	31293290	31293357	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
22	31376001	31376077	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
22	31463687	31463748	4	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
22	31463954	31463963	2	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
22	31492258	31492296	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0
22	31769041	31769122	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
22	31958874	31958954	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
22	32534739	32534749	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22	32729521	32729532	2	1	1	1	1	1	1	1	1	0	0	0	-	-	1	1	1	1	0	1	1	0
22	32917818	32917913	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
22	33842227	33842251	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
22	35363234	35363292	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1
22	35363381	35363455	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1
22	35398178	35398273	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1
22	36292906	36292943	2	1	0	0	1	0	0	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1
22	36300083	36300119	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
22	36301656	36301699	2	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1
22	36480128	36480216	5	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
22	36934108	36934188	3	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0
22	37061312	37061376	4	1	0	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22	37167579	37167658	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
22	37300936	37301005	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
22	37617975	37617996	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1
22	37696763	37696839	4	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	37752572	37752670	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
22	37752656	37752757	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
22	37983591	37983639	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0
22	38210449	38210454	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	0	1	1	0
22	38211250	38211331	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22	38228132	38228161	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22	38229328	38229400	4	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1
22	38260443	38260496	3	1	1	1	1	1	1	0	1	0	0	0	1	0	0	1	1	0	0	1	1	0
22	39073607	39073701	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1
22	39079379	39079388	2	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
22	39091633	39091708	4	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22	39117114	39117149	2	1	0	0	1	0	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
22	39176393	39176453	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
22	39235288	39235317	4	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

22	39236396	39236441	4	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
22	39353450	39353482	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
22	39405741	39405748	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
22	39456228	39456248	2	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22	39467471	39467561	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
22	39467730	39467772	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
22	39904243	39904333	5	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
22	39907871	39907932	4	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
22	39910438	39910479	4	0	0	0	0	0	0	1	1	1	1	1	1	0	1	0	1	1	0	1	0	1
22	39924465	39924564	3	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22	39924557	39924628	5	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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22	40007975	40008033	4	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0
22	40301081	40301158	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
22	40301219	40301274	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
22	40324597	40324624	4	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	1	1	1	0	1	1
22	40389324	40389367	5	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1
22	40463219	40463264	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
22	40572659	40572730	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
22	40572779	40572877	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
22	40771137	40771178	5	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22	40902617	40902664	4	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22	41422930	41423019	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1
22	41477978	41478053	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1
22	41919001	41919081	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
22	41924718	41924751	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1
22	41924882	41924910	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1
22	41934731	41934778	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
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22	41939153	41939202	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
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22	42047713	42047768	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
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22	42672318	42672379	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1	1
22	42778230	42778245	2	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22	42978613	42978637	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	0	0
22	42981197	42981254	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
22	43003795	43003892	4	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	0	1
22	43003847	43003902	4	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	0	0
22	43078817	43078832	2	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
22	43167249	43167343	5	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
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22	43376821	43376837	2	1	1	0	0	0	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
22	43969425	43969496	4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
22	44023275	44023373	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
22	44081570	44081629	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
22	44081936	44082003	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
22	44090318	44090401	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
22	44145691	44145754	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
22	44145728	44145821	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1

22	44145788	44145874	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
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22	44477470	44477545	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
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22	44709879	44709894	2	1	1	1	0	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
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22	45204932	45205031	3	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1
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22	45235589	45235599	3	0	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
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22	46053764	46053857	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
22	46053845	46053874	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
22	46053861	46053954	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
22	46281621	46281645	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
22	46290593	46290627	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1
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22	46593379	46593443	3	1	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
22	46593428	46593466	3	1	1	1	0	1	1	0	0	0	0	0	-	0	0	0	0	0	0	0	1	0	1
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22	46631582	46631648	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
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22	46768438	46768454	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
22	46768555	46768621	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1	1
22	46769047	46769074	3	1	1	1	1	1	1	1	1	1	1	1	1	-	1	1	0	1	0	1	1	1	1
22	46769247	46769308	5	1	1	1	1	1	1	1	1	1	1	1	1	-	1	1	0	1	0	1	1	1	1
22	49552354	49552381	3	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0
22	49787173	49787205	4	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0	1
22	49931627	49931692	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
22	49941562	49941618	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
22	49959354	49959369	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1
22	50056227	50056269	7	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
22	50226932	50227012	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
22	50292074	50292114	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
22	50315600	50315651	3	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	1
22	50317890	50317986	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
22	50333496	50333569	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
22	50333722	50333815	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
22	50334834	50334906	4	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1
22	50417593	50417674	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
22	50417665	50417714	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
22	50417693	50417736	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22	50443255	50443345	8	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22	50466398	50466406	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22	50697375	50697390	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
22	50697411	50697442	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
22	50697597	50697629	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0

22	50697636	50697670	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
22	50729682	50729703	5	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1

[0107] We next applied our reference UDMR matrix on publicly available WGBS of pure and mixed samples obtained from MethBase. (Song, Q. et al., *PLoS One*, 8, e81148 (2013)) Accurate predictions are not expected in this type of analysis due to low read depth intrinsic in WGBS experiments, and also because the raw reads were not available, and thus calls were made based on individual CpGs in the locus. Despite this, we were able to detect the cell type in all cases, and detect known tendencies in peripheral blood mononuclear cells (PBMCs) (FIGS. 1D and 7). Interestingly, one data set described as macrophages was called as 100% monocytes by our method. Tracking the source of this data revealed that these are indeed CD14+ monocytes (GSM1186661), and were misannotated in MethBase.

Example 7. Targeted bisulfite sequencing

[0108] Next, we designed a custom DNA enrichment kit suitable for bisulfite sequencing to allow for targeting of the UDMRs. We applied the enrichment assay on DNA extracted from 8 pure immune cell types. The targeting assay yielded a low on-target rate, ranging in 10-15% of mapped reads, possibly due to using universal blocking oligos. Thus, per sample approximately only 300K reads were available (FIG. 8), and only approximately 10% of the targeted loci were sequenced in all samples at least 20 times. Yet, the analysis of the pure cell types showed that the majority of UDMRs are concordant with the Blueprint-reference matrix, are uniform and have low uninformative rate (FIGS. 3A and 3B). However, the concordance of unmethylated regions in neutrophils and plasmacytoid dendritic cells (pDCs) was low, indicating that enumeration of these cell types may not be accurate. The dendritic cells in Blueprint are from conventional DC, which may explain the incompatibility we observe with pDC.

[0109] We next employed the 8 pure immune cell types to perform simulated *in silico* mixtures, and predicted the underlying abundances using the original reference matrix learned from the Blueprint dataset. These simulations are based on the authentic sequenced reads and not on individual CpGs as in previous simulations, and therefore methylation calls may be partial and uninformative, making these simulations resembling real data. The analysis revealed that in all cell types, excluding pDCs, the predictions were highly accurate (FIG. 2A). We also generated 4 synthetic *in vitro* mixtures from the 8 cell types, with varying proportions of the cell types. In all 4 mixtures, EpiSort was able to recover significantly the underlying abundances (p *value* < 0.05) (FIG. 2A).

[0110] Finally, we test *EpiSort* against the gold-standard benchmark of cell counting. We performed the *EpiSort* assay on the DNA extracted from 20 PBMC samples, which were also analyzed by mass spectrometry (CyTOF) immunoprofiling. The DNA for this experiment was extracted from TRIzol samples and was of low quality; for some of the samples very low amount of DNA was available (FIG. 8). Yet, we found that the signal from this experiment was sufficient to infer with high accuracy most of the cell types in the mixture (FIG. 2B). Lower reliability was only observed in low abundant cell types, presumably related to non-sufficient on-target reads. Finally, we compared the correlations of our inferences with gene expression-based methods, including CIBERSORT (Newman, A. M. et al., *Nat. Methods*, 12, 453–7 (2015)) and our own xCell, (Aran, D., Hu, Z. & Butte, A. J., *bioRxiv* 114165 (2017). doi:10.1101/114165) and found that *EpiSort* is more reliable in inferring the proportions of cell types in PBMCs (Supplementary Figure 2).

[0111] We believe that *EpiSort* can serve as a potent tool for tissue composition analysis, and in particular for studying tumor microenvironment heterogeneity. The advantage of *EpiSort* over single-cell based technologies is clear: since no cell suspension is required, the analysis could be performed on solid tissues without additional destructive dissociation steps, and importantly, it could be performed on archived samples. In cancer studies, this is crucial. DNA methylation analysis from formalin-fixed paraffin-embedded (FFPE) tissues is possible, (Dumenil, T. D. et al., *Genes. Chromosomes Cancer*, 53, 537–548 (2014)) and thus *EpiSort* provides a compelling tool for reexamining archived cohorts.

[0112] We have shown here that *EpiSort* is more accurate than other bulk tissue-based methods. We expect that the accuracy can be further significantly improved with better optimization of the on-target reads. In addition, the reference matrix can be optimized as well by analyzing pure cell types with *EpiSort*, and removing inaccurate loci. However, since *EpiSort* relies on a reference matrix it is constrained by our current understanding of cell types annotations, and cannot detect continuums. It should be emphasized that *EpiSort* is only useful for enumerating cell types and not for any purpose beyond that.

[0113] In summary, *EpiSort* is an accurate low cost method to enumerate cell populations in a bulk mixture. It can be performed with low quality and low amount of input DNA, and with high accuracy compared to other methods. We prospect that *EpiSort* will be a valuable tool for identifying predictive biomarkers that could lead to personalized cancer immunotherapy strategies, and facilitate new cancer immunotherapy approaches.

Example 8. Identifying uniform differentially methylated regions

[0114] DNA methylation calls of human whole genome bisulfite sequencing samples mapped to hg38 were downloaded from the Blueprint Epigenome project (Blueprint Epigenome - Welcome to the Blueprint project at http://www.blueprint- epigenome.eu/) and from MethBase. (Song, Q. et al., *PLoS One*, 8, e81148 (2013)) Altogether we obtained 64 samples, which were aggregated to 23 cell types. Two samples were removed due to low coverage. We scan the genome for N consecutive CpGs in a region <100bp, such that in each cell type all CpGs are methylated or unmethylated. We measure this characteristic, which we term uniformity, using the following formula:

$$U = \sum_{i \in Cell\ types} (0.5 - |0.5 - M_i)^2$$

[0115] Then for each pair of cell types we use calculate the difference (D) of each of the CpGs in the region. We use different threshold for N, U and D, starting from stringent thresholds and gradually relaxing the thresholds to allow 100 regions for each per of cell types. Ranges are N=5 to 2, U=0.01 to 0.05 and D=0.95 to 0.5. Regions containing CpGs that are unavailable in more than 2 cell types are removed. The search yielded 9,291 regions across the genome.

Example 9. CyTOF Immunoprofiling

[0116] PBMCs of healthy volunteer were collected by the Stanford Blood Center, and were provided with courtesy from the Institute for Immunity, Transplantation and Infection (HIMC) at Stanford University.. PBMCs were analyzed using the CyTOF immunoprofiling protocol described in Leipold & Maecker. (Leipold, M. & Maecker, H., *BIO-PROTOCOL*, 5, (2015)) Normalization of the mass cytometry data was performed according to Finck et al. (Finck, R. et al., *Cytom. Part A*, 83A, 483–494 (2013)) Next, normalization beads, debris, doublets, and dead cells were removed from the data before marker-based gating to determine the cell populations. The fractions presented are the number of cells in a particular gated subpopulation divided by the number of viable singlet cells.

Example 10. DNA from pure immune cell types in peripheral blood

[0117] White blood cell concentrates of TrimaAccel® leukocyte reduction system (LRS) cones recovered after Plateletpheresis procedure were obtained from two donors by the

Stanford Blood Center according to Institutional Review Board (IRB) ("Minimal Risk Research Related Activities at Stanford Blood Center", Protocol #13942) protocol. Pure cell populations were isolated using EasySep Human negative selection kits (STEM CELL technologies, >95% purity). In addition, we analyzed genomic DNA from frozen human peripheral blood Macrophages (≥ 90%) and Plasmacytoid Dendritic Cells (pDCs, (≥ 85%)). DNA was purified using QIAamp DNA Mini Kit (QIAGEN).

Example 11. Targeted bisulfite-sequencing

[0118] Extracted genomic DNA (gDNA) was sent to the University of California-Berkeley, Institute for Quantitative Biosciences (QB3), Functional Genomics Laboratory where it was prepared for Illumina short-read sequencing using a custom designed Nimblegen targeted capture probe panel. The DNAs were initially spiked with bisulfite conversion control, as indicated in the Nimblegen SeqCap Epi enrichment protocol (Roche Diagnostics Corp., Indianapolis, IN) and sheared to 200 base-pairs (bp) on a Covaris S220 Focused-Ultrasonicator (Covaris, Woburn, MA). Fragmented DNA was cleaned and concentrated with MinElute® PCR Purification columns (QIAGEN Inc., Valencia, CA) and prepared for sequencing on an Apollo 324™ with PrepX™ ILM 32i DNA Library Kits (WaferGen Biosystems, Fremont, CA), using eight base-pair dual-indexed methylated adapters (Integrated DNA Technologies Inc., Chicago, IL). Post library preparation, bisulfite conversion was performed on the adapter-ligated, indexed libraries using the EZ DNA Methylation-Lightning kit (Zymo Research Corp., Irvine, CA), after which bisulfite-converted libraries were amplified with 12 polymerase chain reaction (PCR) cycles using KAPA HiFi Hotstart Uracil+ ReadyMix and Ligation-Mediated PCR oligos (Roche Diagnostics Corp., Indianapolis, IN). Samples submitted with less than one microgram of extracted gDNA were amplified with an additional 2 PCR cycles to increase concentration pre-capture. Amplified libraries were purified using AMpure XP solid-phase reversible immobilization beads (Beckman Coulter Inc., Indianapolis, IN) and quantified using a high sensitivity DNA Qubit assay (Thermo Fisher Scientific, Billerica, MA).

[0119] Eight one-microgram pools, consisting of four different 250ng aliquots of purified, bisulfite-converted library, were hybridized to capture probes for approximately 70 hours following the SeqCap Epi Enrichment system protocol (Roche Diagnostics Corp., Indianapolis, IN). Bisulfite capture enhancer provided in the capture kit and xGen universal oligo blockers (Integrated DNA Technologies Inc., Chicago, IL) were added to the pools

prior to probe hybridization. Capture bead-bound sample pools were washed and amplified for 16 PCR cycles using KAPA HiFi Hostart ReadyMix and LM-PCR oligos (Roche Diagnostics Corp., Indianapolis, IN). Final products were visualized on a high-sensitivity DNA Advanced Analytical Fragment Analyzer assay (Advanced Analytical Technologies Inc., Ames, IA). Pools were then transferred to the QB3 Genomics Sequencing Laboratory at UC Berkeley and quantified in duplicate on a BioRad CFX connect quantitative PCR thermal cycler (BIO-RAD Laboratories, Hercules, CA) using the KAPA Universal qPCR Mix Library Quant Kit for Illumina (Roche Diagnostics Corp., Indianapolis, IN). The eight capture pools were then pooled equimolar and sequenced across two Illumina HiSeq2500 v2 150bp single-end rapid lanes with a ten percent PhiX control library spike (Illumina Inc., San Diego, CA). Basecall files (bclfiles) were demultiplexed and converted to fastQ file format using the bcl2fastq v2.18 software (Illumina Inc., San Diego, CA).

Example 12. EpiSort pipeline

[0120] **Reference matrix** – Based on the WGBS datasets we generated a 9,291x23 binary matrix for each of the UDMRs and cell types. Each cell in the matrix is 1 if the regions methylation > 0.5, and 0 otherwise. The reference matrix can be further refined using targeted bisulfite sequencing of pure cell types, which will yield higher reliability due to superior read depth.

[0121] **DNA extraction** – The requirement for the targeting assay is 1 microgram of DNA. However, our analyses show that the targeting assay can be performed with very low amount of DNA, as we were able to recover the composition of a sample where only 40 nanograms were available.

[0122] **Targeting** – We used here the SeqCap Epi kit to target 9,291 regions, multiplexing 4 samples per reaction.

[0123] **Sequencing** – All 32 samples were multiplexed and sequenced together using one HiSeq 2500 lane. We used 150bp single-read sequences.

[0124] **Alignment** – Bismark Bisulfite Mapper (Krueger, F. & Andrews, S. R. *Bioinformatics*, 27, 1571–2 (2011)) was used to align the reads to the hg38 reference genome. Using Matlab sparse matrices we efficiently analyzed each sample to count the number of methylated, unmethylated and uninformative reads in the targeted regions. A read is called

methylated if the majority of its CpGs are methylation, unmethylated if the majority is unmethylated, and uninformative if equal number of methylated and methylated CpGs.

[0125] **Analysis** – For the input sample we calculate for each region the methylation call, which is the fraction of methylated reads from all informative reads. This generates a vector (b), and with the reference matrix (A) we perform linear regression analysis to compute the underlying abundances of the cell types (x) . To perform the analysis we employ robust fitting to reduce the effect of outliers. (Buja, A. et al., *Computing and graphics in statistics. Computing and graphics in statistics* (Springer-Verlag, 1991). at http://dl.acm.org/citation.cfm?id=140809)

[0126] It is understood that the examples and embodiments described herein are for illustrative purposes only and that various modifications or changes in light thereof will be suggested to persons skilled in the art and are to be included within the spirit and purview of this application and scope of the appended claims. All publications, patents, and patent applications cited herein are hereby incorporated by reference in their entirety for all purposes.

WHAT IS CLAIMED IS:

1. A method for identifying a set of genetic loci having methylation states that distinguish between cell types, the method comprising,

receiving quantitative nucleotide sequencing data for a plurality of different cell types, where the data includes designations whether cytosines are methylated; and

selecting genetic loci from the quantitative nucleotide sequencing data:

(i) that have at least three CpG sequences within 200 contiguous nucleotides,

(ii) for which all of the at least three CpG sequences are fully methylated or fully unmethylated for a particular cell type; and

(iii) wherein methylation status of the at least three CpG sequences is stably different between two different cell types,

thereby selecting a set of genetic loci having methylation states that distinguish between cell types.

2. The method of claim 1, wherein the cell types are mammalian immune cell types.

3. The method of claim 1, wherein the plurality of different cell types comprises at least two (e.g., 2, 3, 4, 5, 6, 7, 8, 9, 10 or more) cell types selected from hematopoietic stem cells, neutrophils, CD4+ naive T-cell, CD8+ naïve T-cell, CD4+ Central Memory T-cell, CD8+ Central Memory T-cell, CD4+ Effector Memory T-cell, CD8+ Effector Memory T-cell, regulatory T-cells, natural killer cells, naïve B-cells, memory B-cells, plasma cells, precursor B-cells, monocytes, dendritic cells, macrophages M0, macrophages M1, macrophages M2, eosinophils, erythroblasts, or basophils.

4. The method of claim 1, wherein the genetic loci are scored as "methylated" when at least a majority of the CpG sequences are determined to be methylated and the genetic loci are scored as "unmethylated" when at least a majority of the CpG sequences are determined to be unmethylated.

5. The method of claim 1, wherein the methylation status signatures each have between 50-200 different genetic loci.

6. The method of claim 1, wherein the set of genetic loci is between 500-10,000 different loci.

7. The method of claim 1, wherein at least 90% of the genetic loci are between 200-500 nucleotides in length.

8. The method of claim 1, wherein the quantitatively nucleotide sequencing comprises bisulfite deep sequencing.

9. A method for determining the proportion and identity of different cell types in a sample, the method comprising,

providing genomic DNA from a sample having a mixture of different cell types;

quantitatively nucleotide sequencing a plurality of unique copies of the genomic DNA at said set of genetic loci having methylation states that distinguish between cell types of claim 1, wherein the nucleotide sequencing includes designations whether cytosines are methylated, to generate a set of determined sequencing reads having a determined methylation status at each genetic locus in the set of genetic loci;

comparing the set of determined sequencing reads to a reference set of a plurality of different methylation status signatures that distinguish between at least two different cell types in the sample; and

determining the proportion of occurrences of different methylation status signatures in the set of determined sequencing reads and determining the proportion and identity of different cell types in the sample by deconvoluting the occurrences of different methylation status signatures.

10. The method of claim 9, wherein the cell types are mammalian immune cell types.

11. The method of claim 9, wherein the plurality of different cell types comprises at least two (e.g., 2, 3, 4, 5, 6, 7, 8, 9, 10 or more) cell types selected from

hematopoietic stem cells, neutrophils, CD4+ naive T-cell, CD8+ naïve T-cell, CD4+ Central Memory T-cell, CD8+ Central Memory T-cell, CD4+ Effector Memory T-cell, CD8+ Effector Memory T-cell, regulatory T-cells, natural killer cells, naïve B-cells, memory B-cells, plasma cells, precursor B-cells, monocytes, dendritic cells, macrophages M0, macrophages M1, macrophages M2, eosinophils, erythroblasts, or basophils.

12. The method of claim 9, wherein the genetic loci are scored as "methylated" when at least a majority of the CpG sequences are determined to be methylated and the genetic loci are scored as "unmethylated" when at least a majority of the CpG sequences are determined to be unmethylated.

13. The method of claim 9, wherein the methylation status signatures each have between 50-200 different genetic loci.

14. The method of claim 9, wherein the set of genetic loci is between 500-10,000 different loci.

15. The method of claim 9, wherein at least 90% of the genetic loci are between 200-500 nucleotides in length.

16. The method of claim 9, wherein the quantitatively nucleotide sequencing comprises bisulfite deep sequencing.

17. A computer product comprising a non-transitory computer readable medium storing a plurality of instructions that when executed determine the proportion and identity of different cell types in a sample, the instructions comprising:

receiving a set of determined sequencing reads from genomic DNA from a sample having a mixture of different cell types, the set of determined sequencing reads having a determined methylation status at each genetic locus in the set of genetic loci, the set of determined sequencing reads generated by quantitatively nucleotide sequencing a plurality of unique copies of the genomic DNA at the set of genetic loci having methylation states that distinguish between cell types of claim 1, wherein the nucleotide sequencing includes designations whether cytosines are methylated;

comparing the set of determined sequencing reads to a reference set of a plurality of different methylation status signature that distinguishes between at least two different cell types in the sample; and

determining the proportion of occurrences of different methylation status signatures in the set of determined sequencing reads and determining the proportion and identity of different cell types in the sample by deconvoluting the occurrences of different methylation status signatures.

18. The computer product of claim 17, wherein the cell types are mammalian immune cell types.

19. The computer product of claim 17, wherein the plurality of different cell types comprises at least two (e.g., 2, 3, 4, 5, 6, 7, 8, 9, 10 or more) cell types selected from hematopoietic stem cells, neutrophils, CD4+ naive T-cell, CD8+ naïve T-cell, CD4+ Central Memory T-cell, CD8+ Central Memory T-cell, CD4+ Effector Memory T-cell, CD8+ Effector Memory T-cell, regulatory T-cells, natural killer cells, naïve B-cells, memory B-cells, plasma cells, precursor B-cells, monocytes, dendritic cells, macrophages M0, macrophages M1, macrophages M2, eosinophils, erythroblasts, or basophils.

20. The computer product of claim 17, wherein the genetic loci are scored as "methylated" when at least a majority of the CpG sequences are determined to be methylated and the genetic loci are scored as "unmethylated" when at least a majority of the CpG sequences are determined to be unmethylated.

21. The computer product of claim 17, wherein the methylation status signatures each have between 50-200 different genetic loci.

22. The computer product of claim 17, wherein the set of genetic loci is between 500-10,000 different loci.

23 . The computer product of claim 17, wherein at least 90% of the genetic loci are between 200-500 nucleotides in length.

24. The computer product of claim 17, wherein the quantitatively nucleotide sequencing comprises bisulfite deep sequencing.

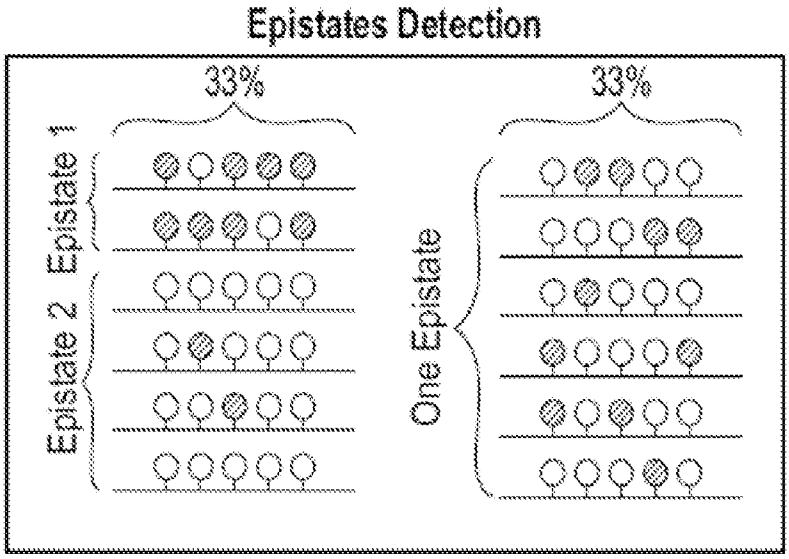
Epistates Detection
33%
33%
Epistate 1
Epistate 2
One Epistate

FIG. 1A

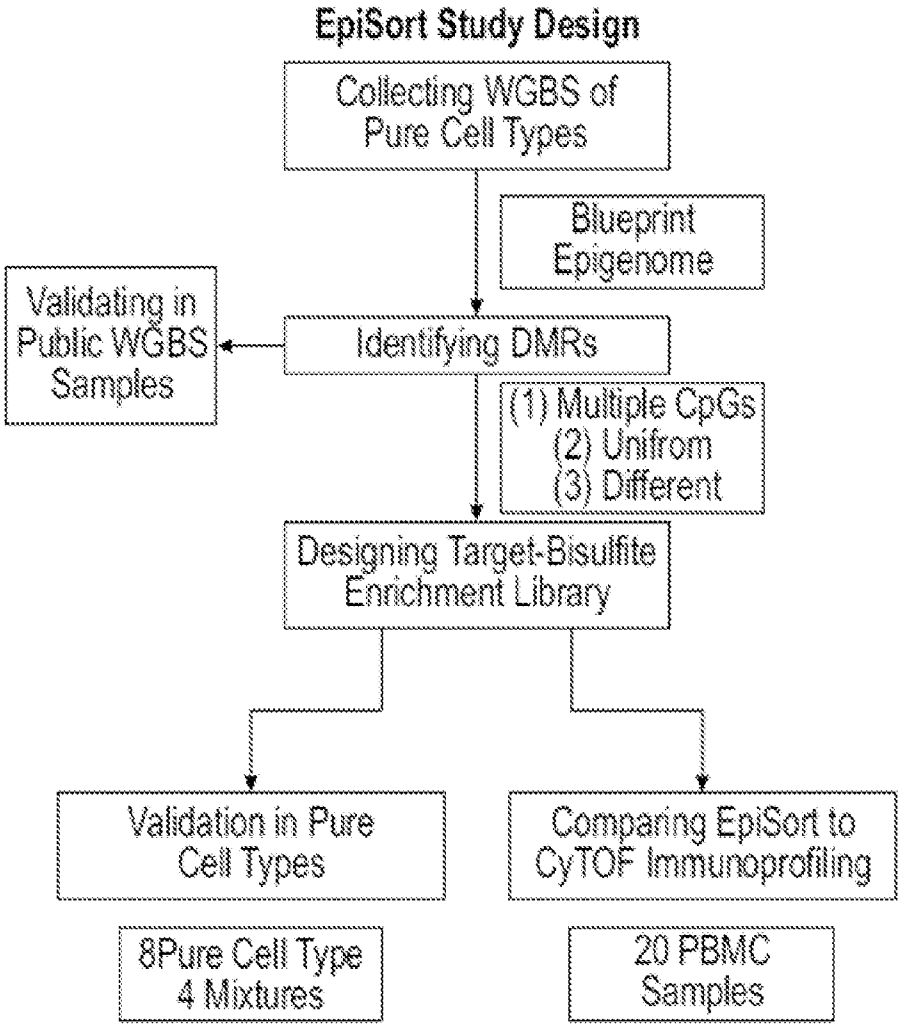
EpiSort Study Design
Collecting WGBS of Pure Cell Types
Blueprint Epigenome
Validating in Public WGBS Samples
Identifying DMRs
(1) Multiple CpGs
(2) Unifrom
(3) Different
Designing Target-Bisulfite Enrichment Library
Validation in Pure Cell Types
Comparing EpiSort to CyTOF Immunoprofiling
8Pure Cell Type 4 Mixtures
20 PBMC Samples

FIG. 1B

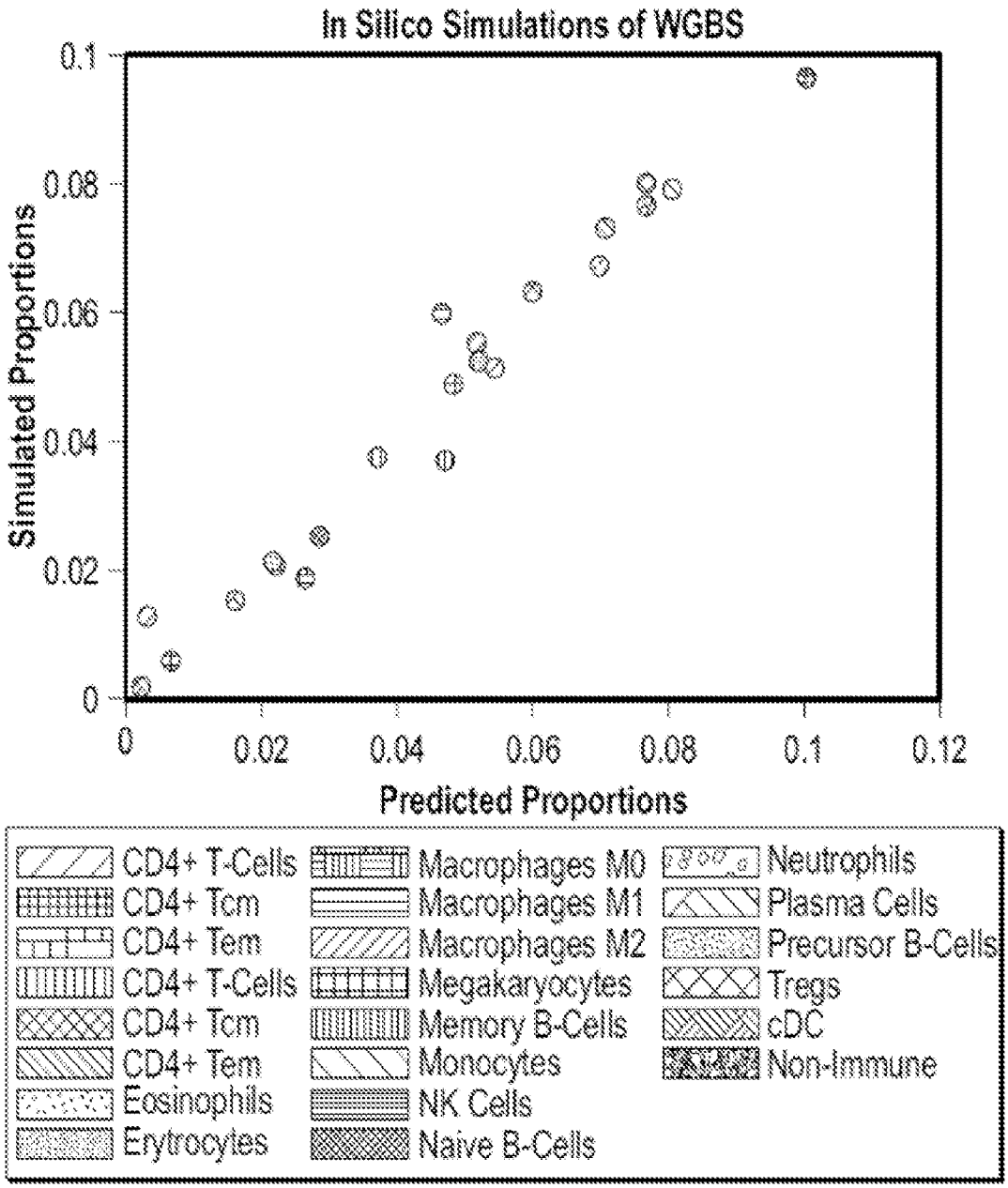
In Silico Simulations of WGBS
Simulated Proportions
Predicted Proportions
0
0.02
0.04
0.06
0.08
0.1
0.12
CD4+ T-Cells
CD4+ Tcm
CD4+ Tem
CD4+ T-Cells
CD4+ Tcm
CD4+ Tem
Eosinophils
Erytrocytes
Macrophages M0
Macrophages M1
Macrophages M2
Megakaryocytes
Memory B-Cells
Monocytes
NK Cells
Naive B-Cells
Neutrophils
Plasma Cells
Precursor B-Cells
Tregs
cDC
Non-Immune

FIG. 1C

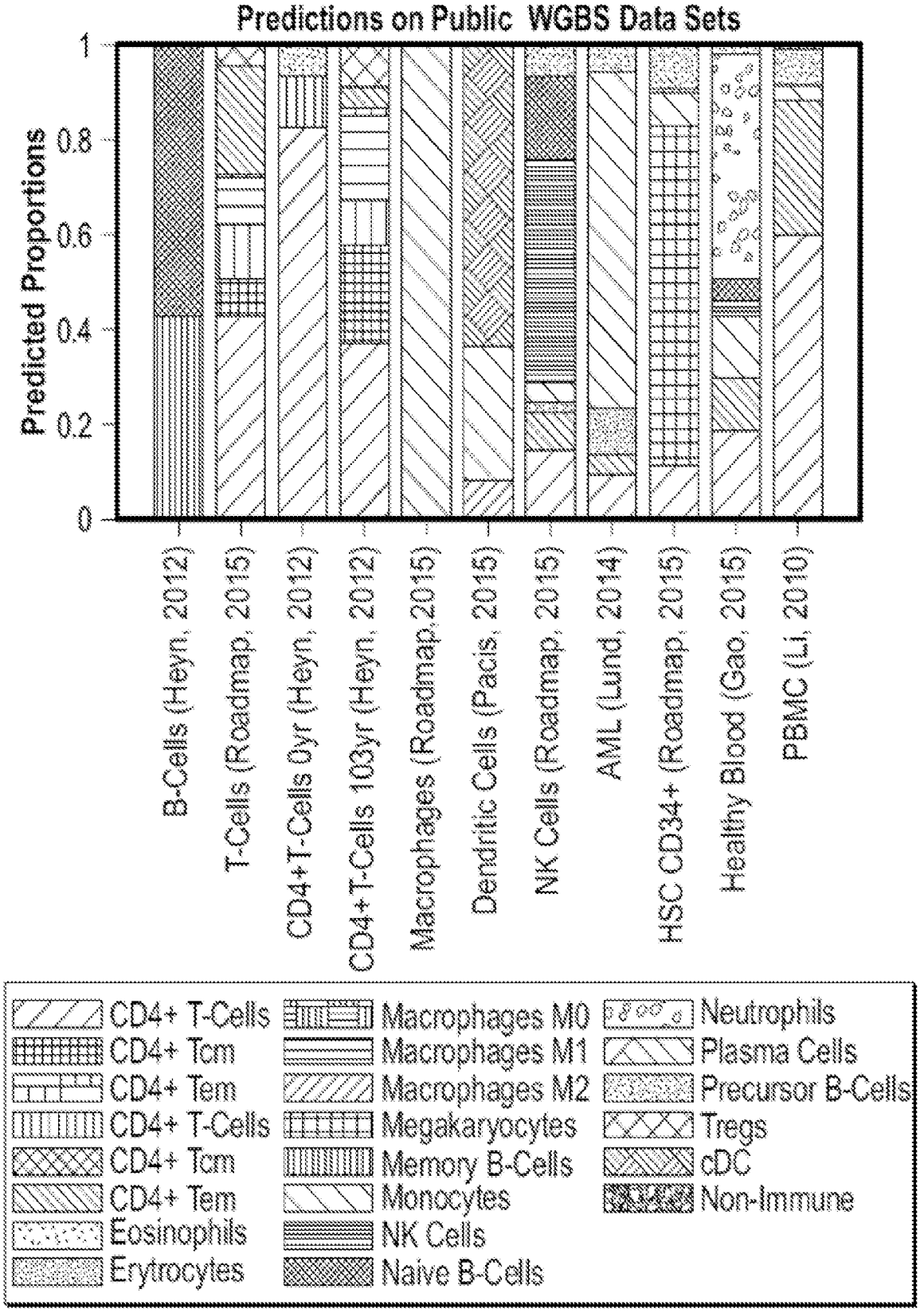
Predictions on Public WGBS Data Sets
Predicted Proportions
0
0.2
0.4
0.6
0.8
1
B-Cells (Heyn, 2012)
T-Cells (Roadmap, 2015)
CD4+T-Cells 0yr (Heyn, 2012)
CD4+T-Cells 103yr (Heyn, 2012)
Macrophages (Roadmap,2015)
Dendritic Cells (Pacis, 2015)
NK Cells (Roadmap, 2015)
AML (Lund, 2014)
HSC CD34+ (Roadmap, 2015)
Healthy Blood (Gao, 2015)
PBMC (Li, 2010)
CD4+ T-Cells
CD4+ Tcm
CD4+ Tem
CD4+ T-Cells
CD4+ Tcm
CD4+ Tem
Eosinophils
Erytrocytes
Macrophages M0
Macrophages M1
Macrophages M2
Megakaryocytes
Memory B-Cells
Monocytes
NK Cells
Naive B-Cells
Neutrophils
Plasma Cells
Precursor B-Cells
Tregs
cDC
Non-Immune

FIG. 1D

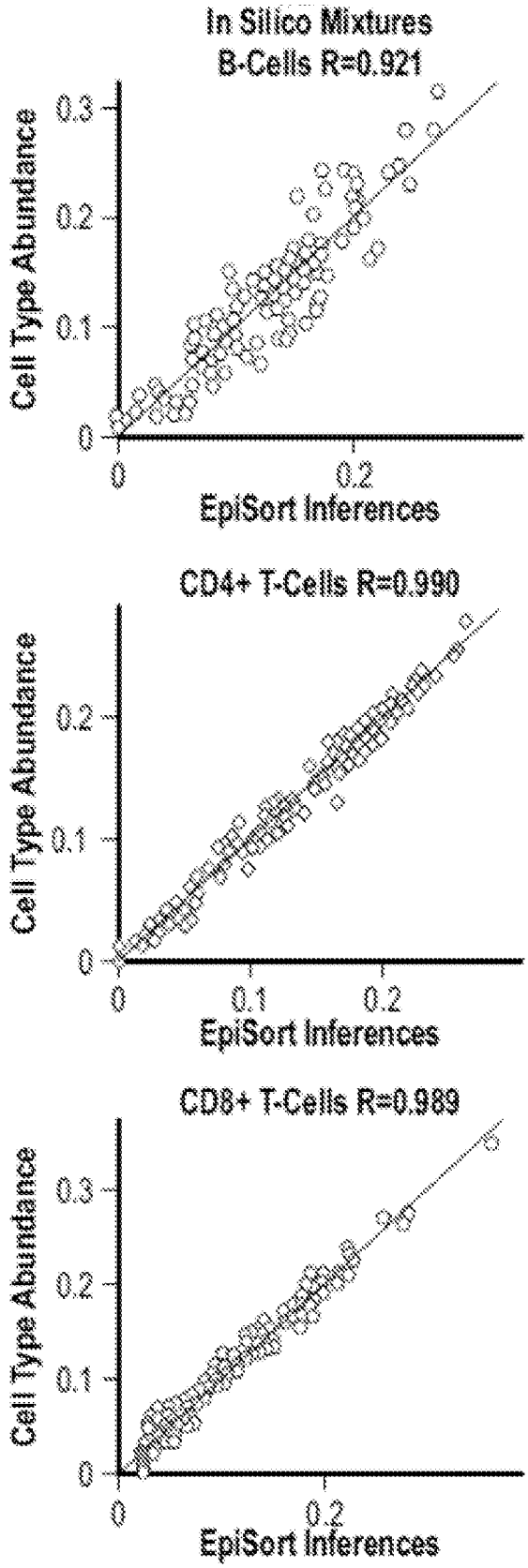
In Silico Mixtures
B-Cells R=0.921
Cell Type Abundance
0.3
0.2
0.1
0
0
0.2
EpiSort Inferences
CD4+ T-Cells R=0.990
Cell Type Abundance
0.2
0.1
0
0
0.1
0.2
EpiSort Inferences
CD8+ T-Cells R=0.989
Cell Type Abundance
0.3
0.2
0.1
0
0
0.2
EpiSort Inferences

FIG. 2A

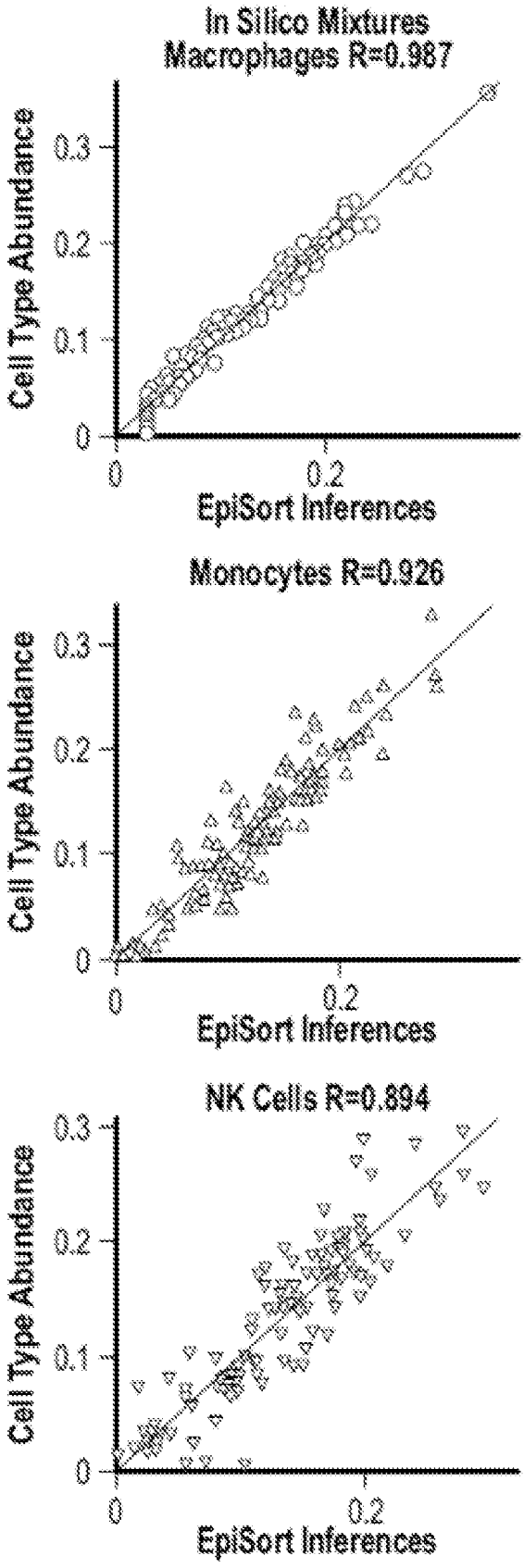

FIG. 2A (Continued)

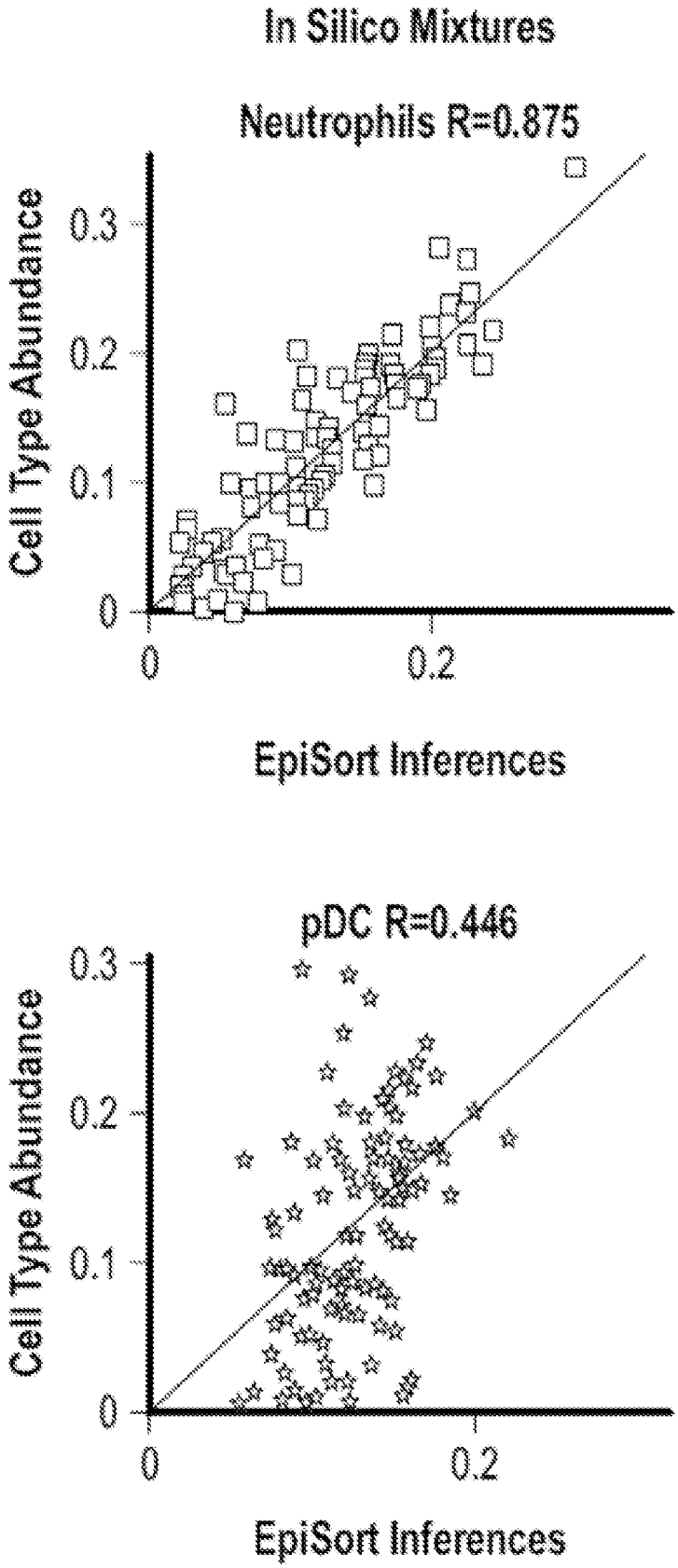

FIG. 2A (Continued)

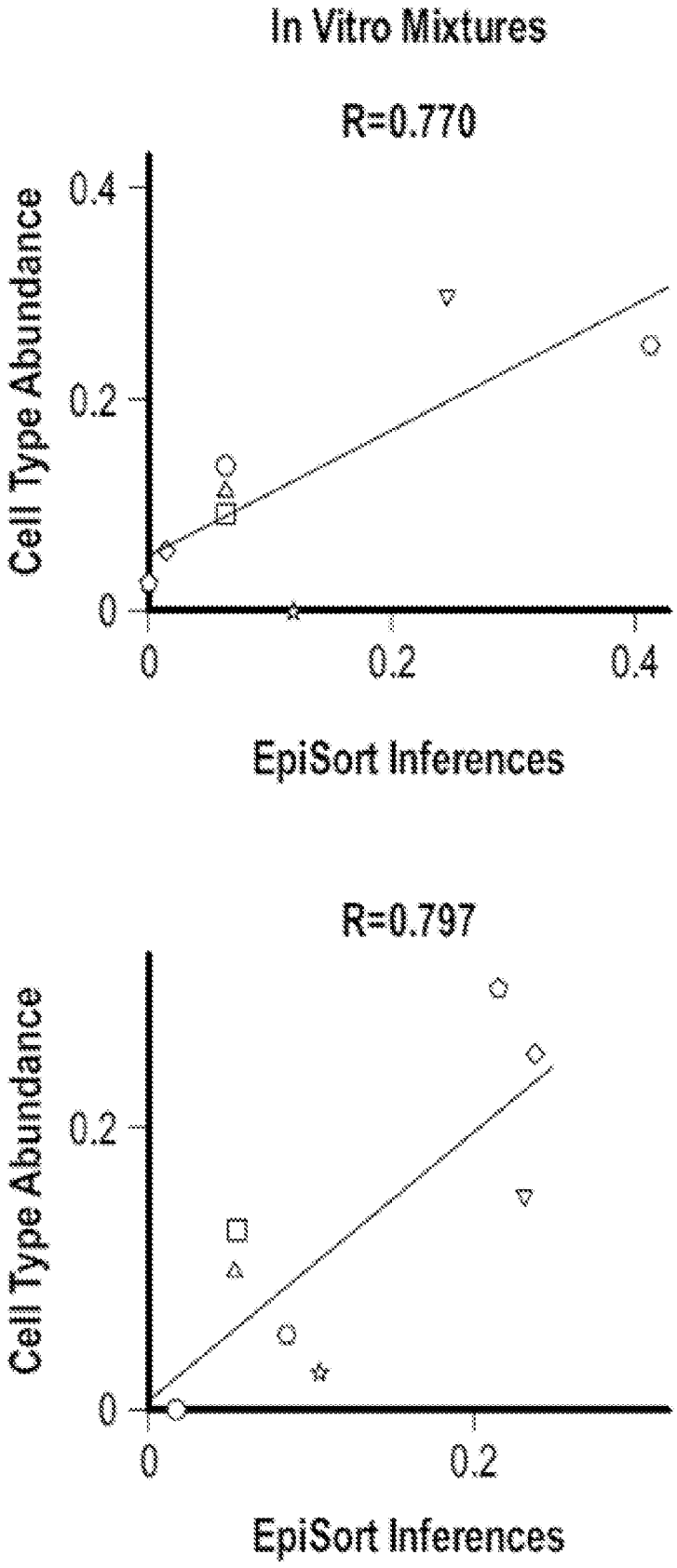

FIG. 2A (Continued)

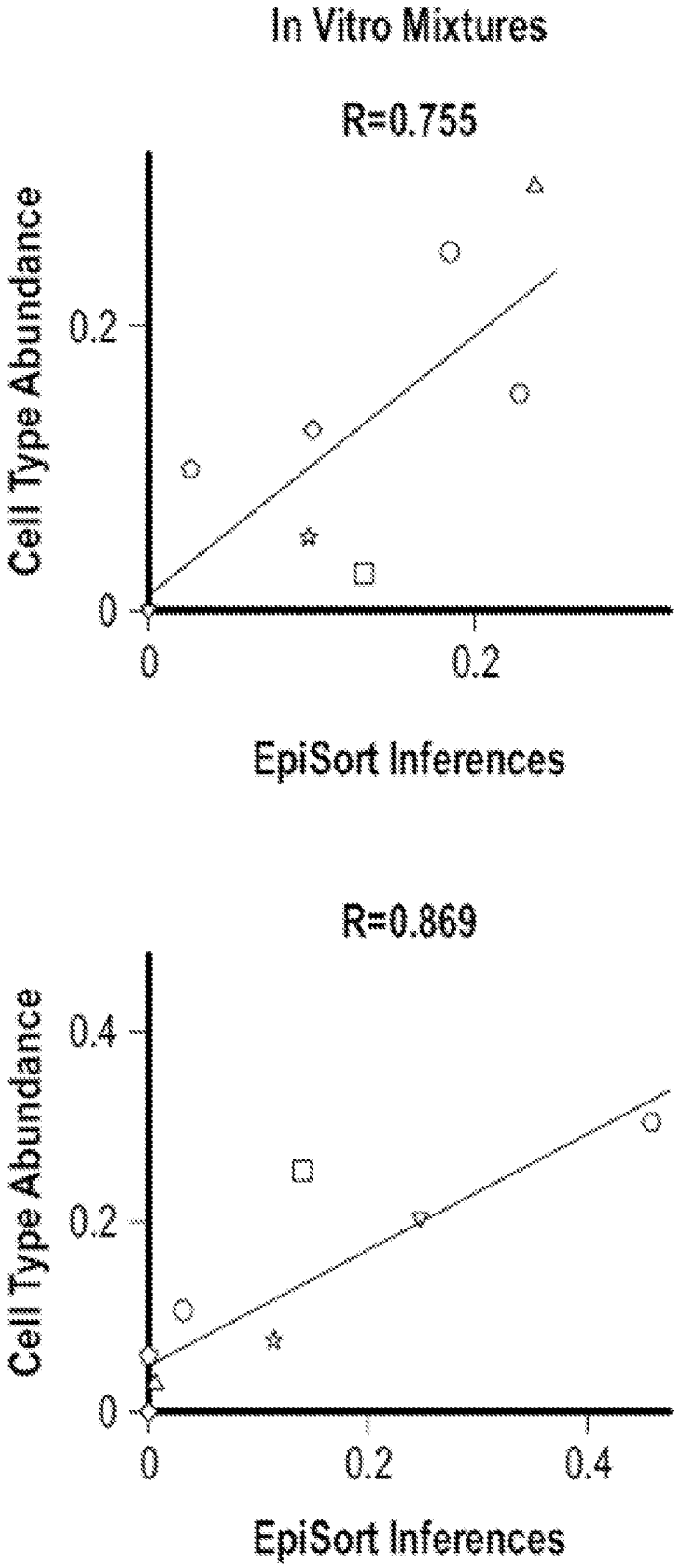

FIG. 2A (Continued)

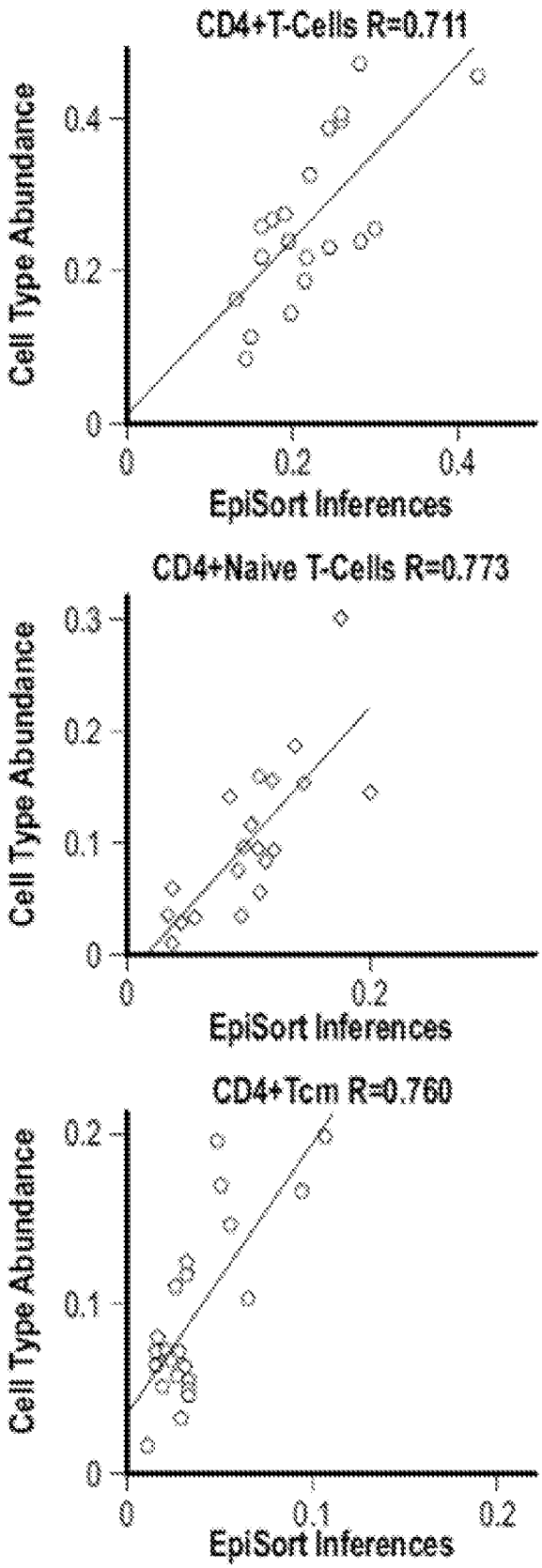
CD4+T-Cells R=0.711
Cell Type Abundance
0
0.2
0.4
0
0.2
0.4
EpiSort Inferences
CD4+Naive T-Cells R=0.773
Cell Type Abundance
0
0.1
0.2
0.3
0
0.2
EpiSort Inferences
CD4+Tcm R=0.760
Cell Type Abundance
0
0.1
0.2
0
0.1
0.2
EpiSort Inferences

FIG. 2B

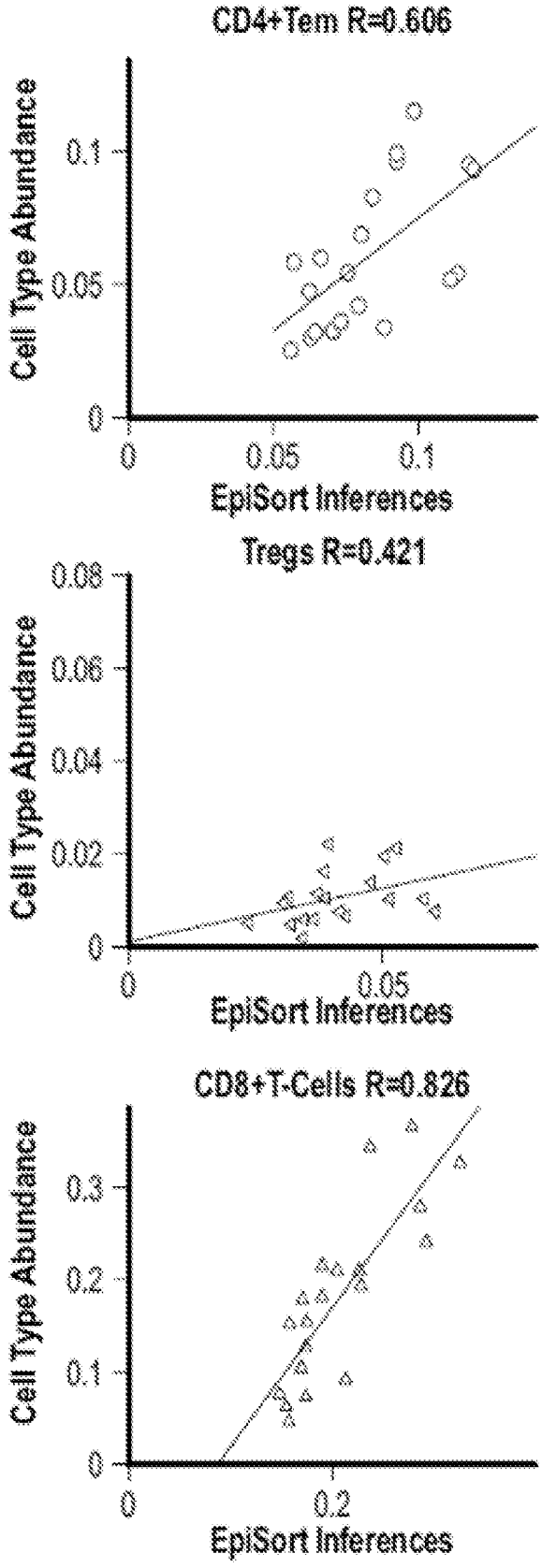

FIG. 2B (Continued)

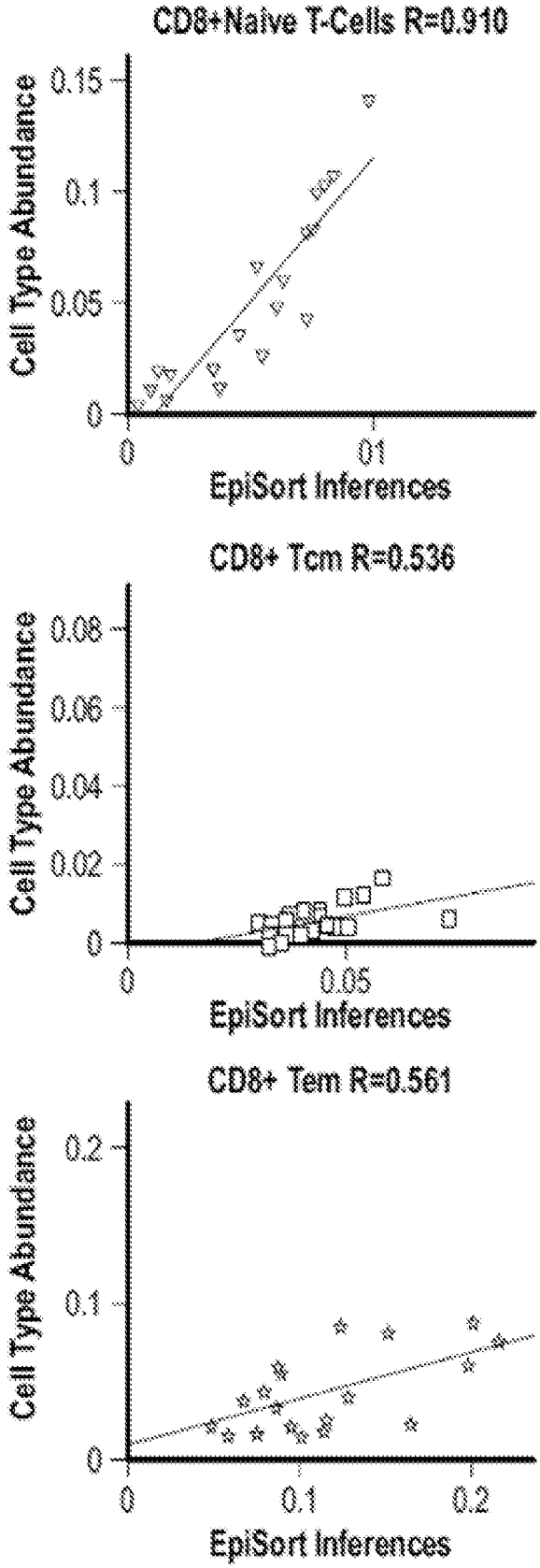

FIG. 2B (Continued)

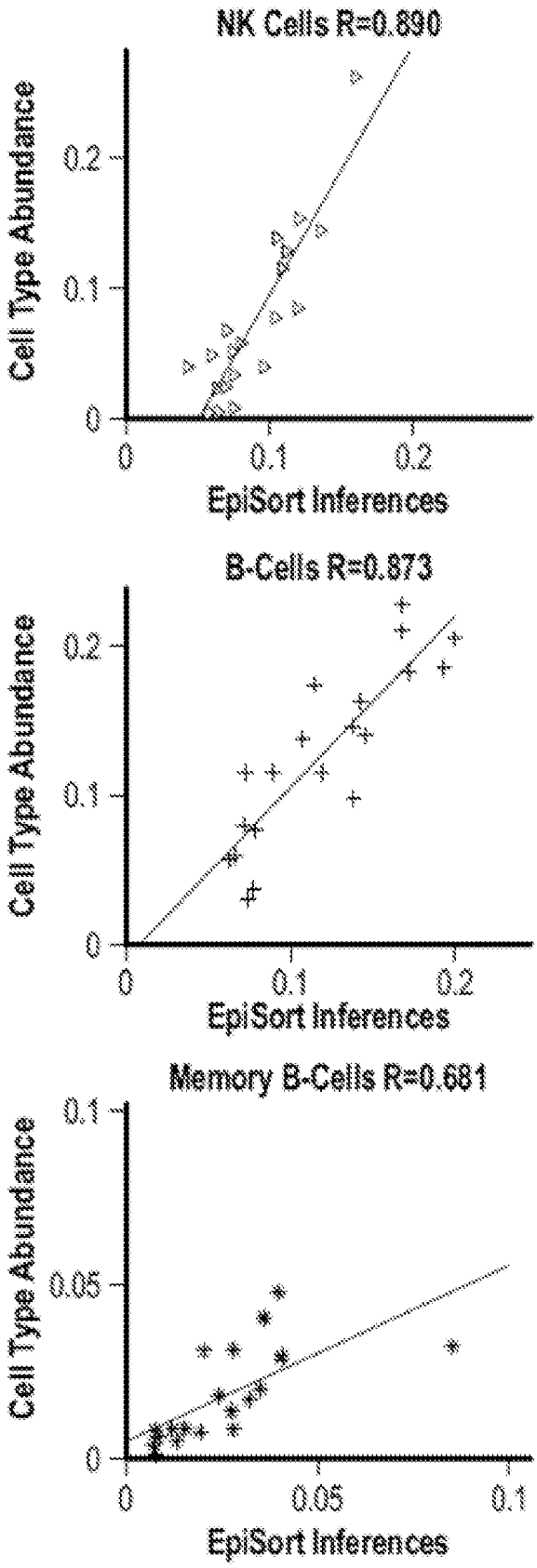

FIG. 2B (Continued)

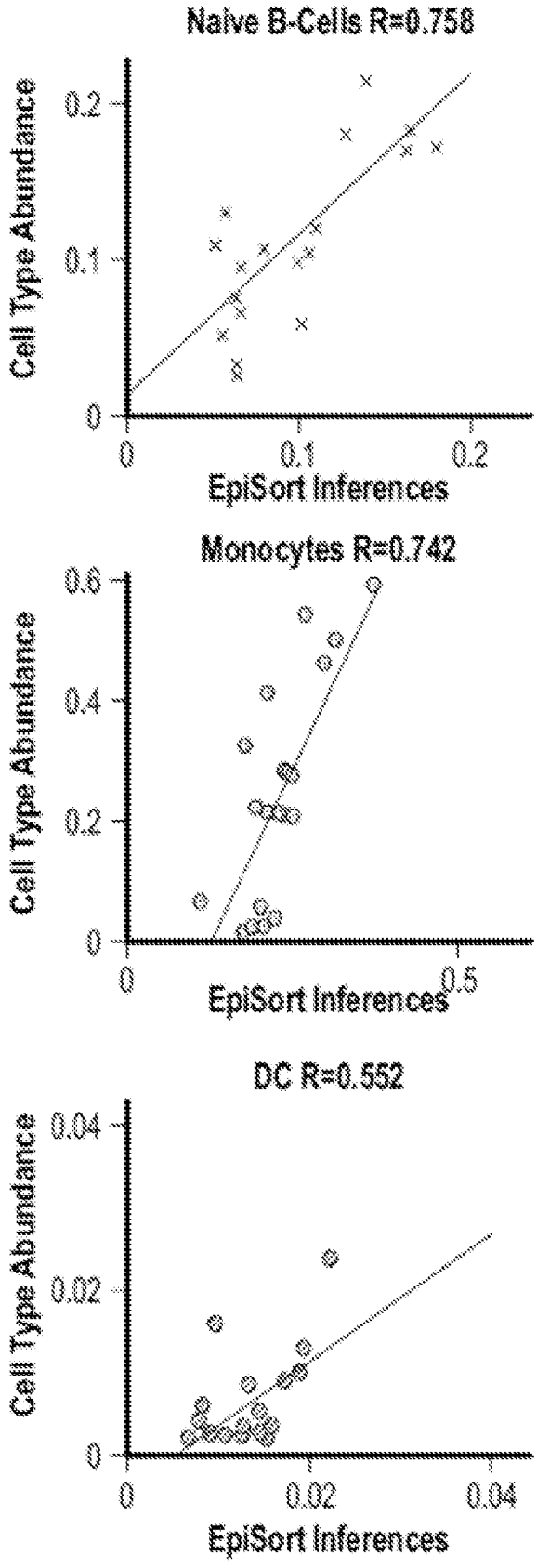

FIG. 2B (Continued)

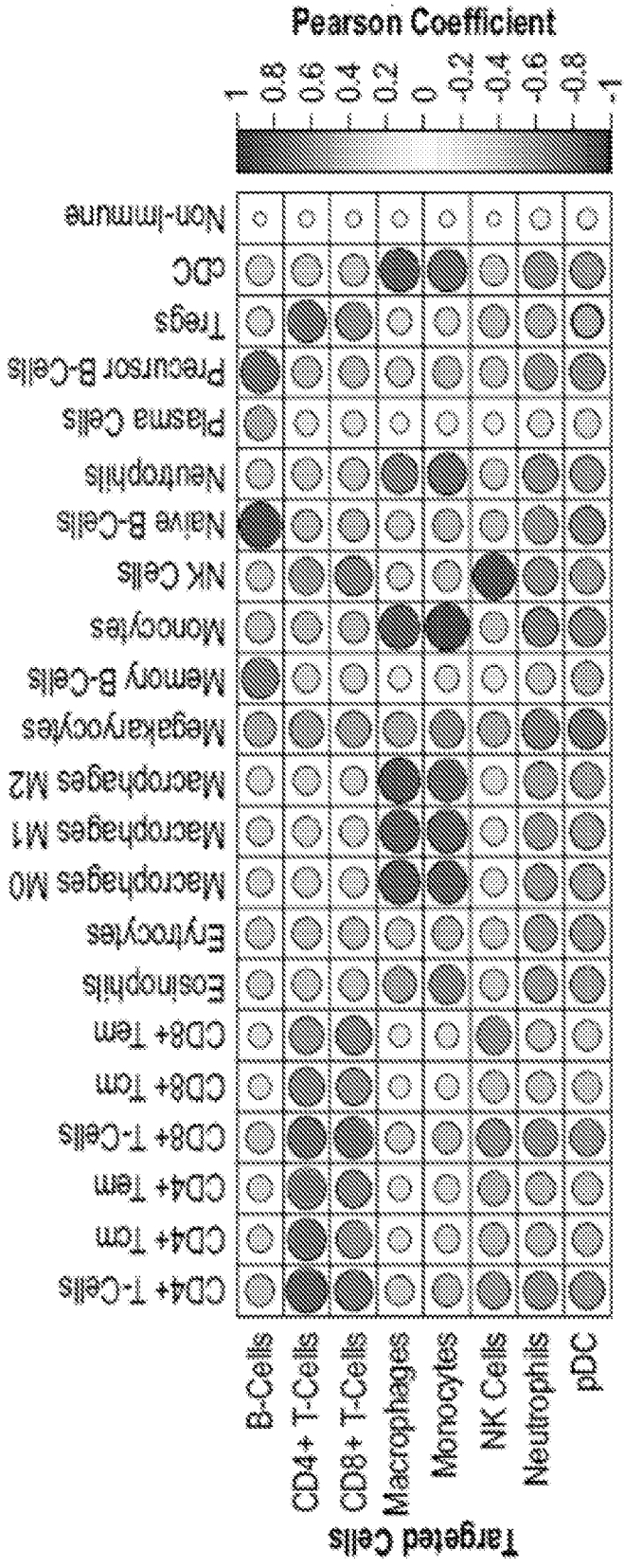
Pearson Coefficient
1
0.8
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
-0.8
-1
Non-Immune
cDC
Tregs
Precursor B-Cells
Plasma Cells
Neutrophils
Naive B-Cells
NK Cells
Monocytes
Memory B-Cells
Megakaryocytes
Macrophages M2
Macrophages M1
Macrophages M0
Erytrocytes
Eosinophils
CD8+ Tem
CD8+ Tcm
CD8+ T-Cells
CD4+ Tem
CD4+ Tcm
CD4+ T-Cells
B-Cells
CD4+ T-Cells
CD8+ T-Cells
Macrophages
Monocytes
NK Cells
Neutrophils
pDC
Targeted Cells

FIG. 3A

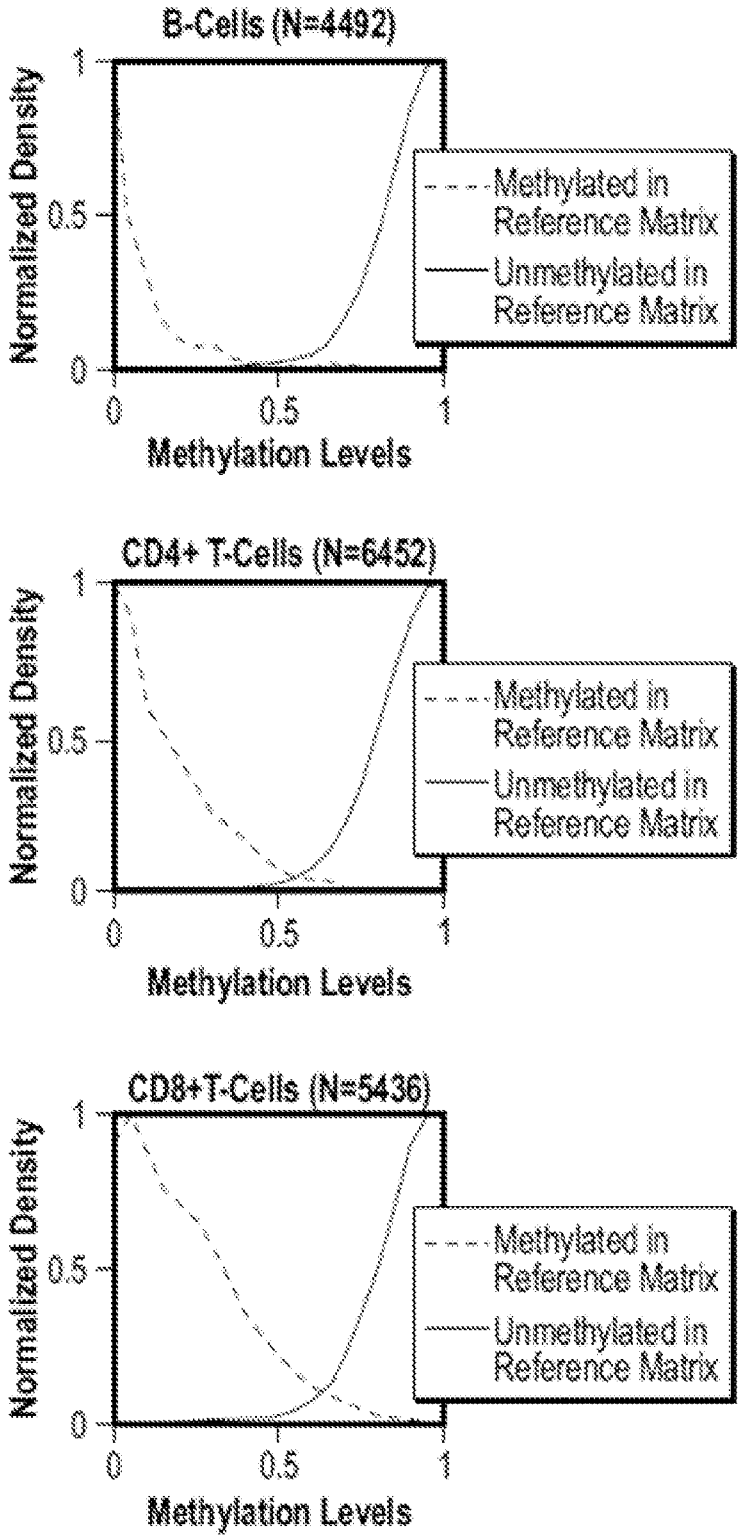
B-Cells (N=4492)
Normalized Density
1
0.5
0
0
0.5
1
Methylation Levels
Methylated in Reference Matrix
Unmethylated in Reference Matrix
CD4+ T-Cells (N=6452)
Normalized Density
1
0.5
0
0
0.5
1
Methylation Levels
Methylated in Reference Matrix
Unmethylated in Reference Matrix
CD8+T-Cells (N=5436)
Normalized Density
1
0.5
0
0
0.5
1
Methylation Levels
Methylated in Reference Matrix
Unmethylated in Reference Matrix

FIG. 3B

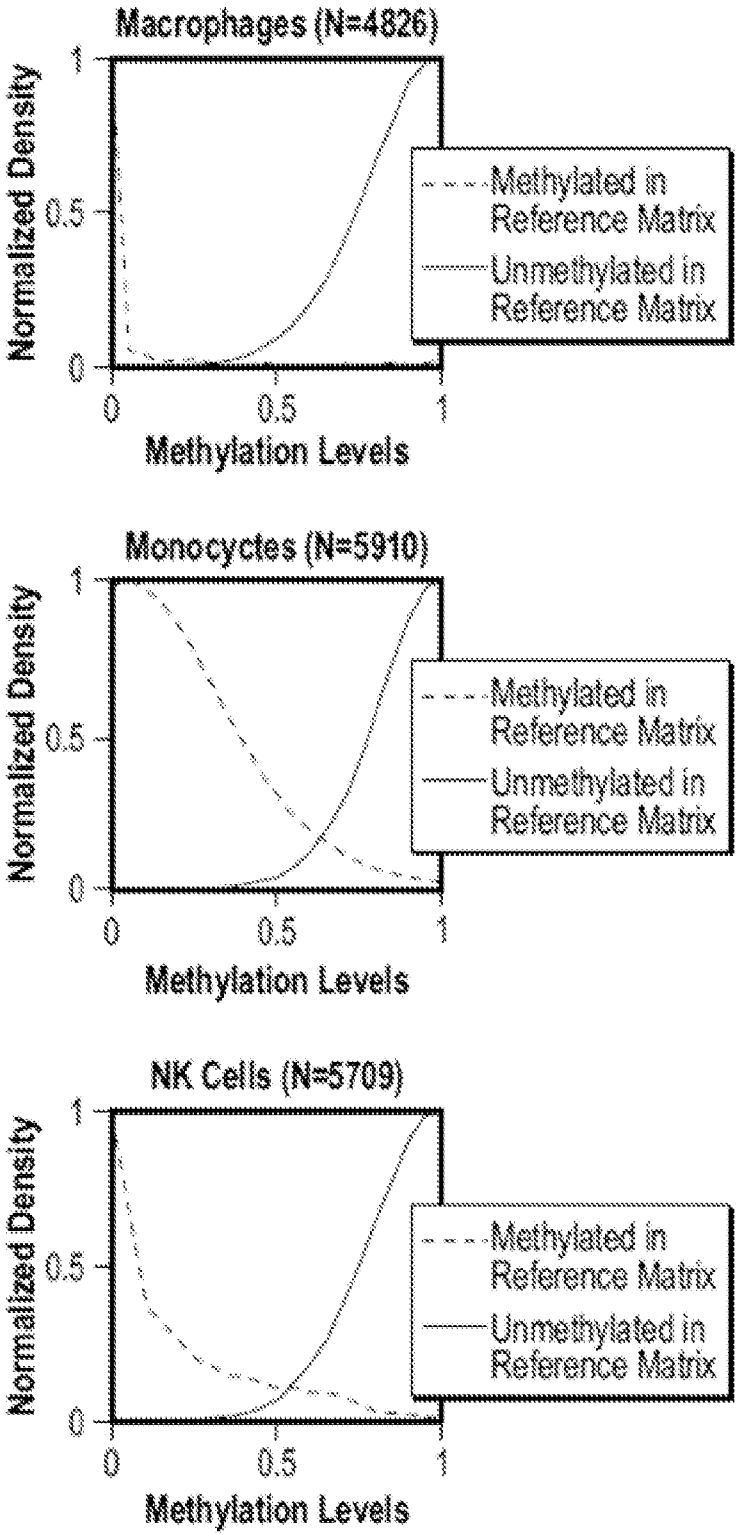

FIG. 3B (Continued)

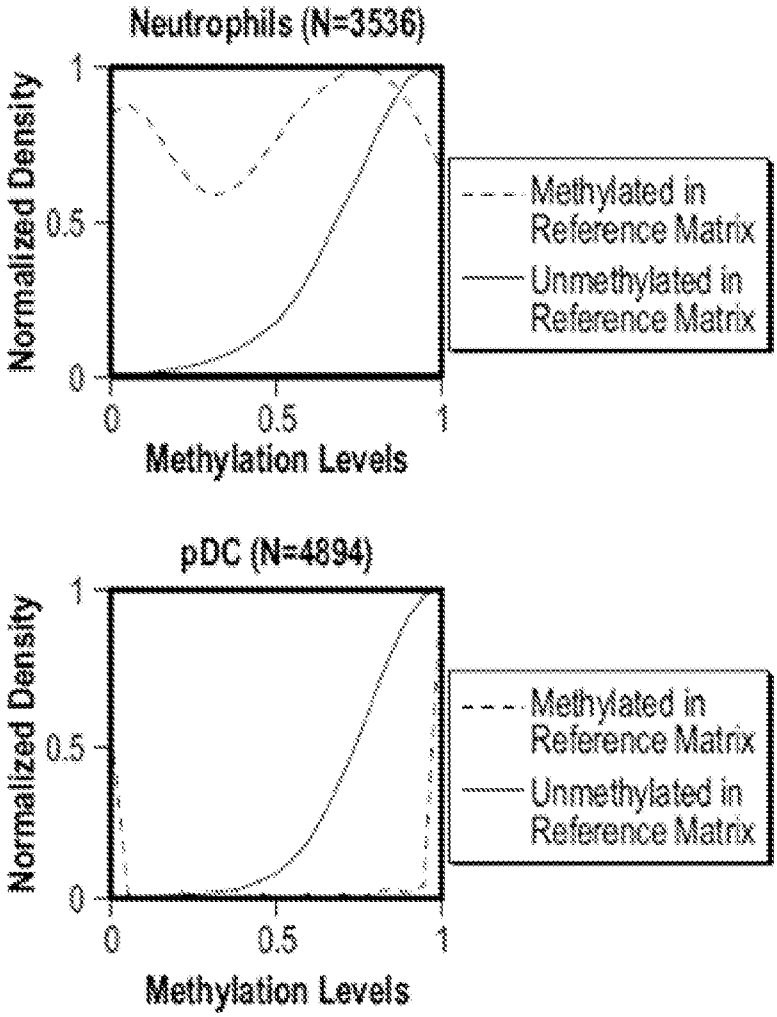

FIG. 3B (Continued)

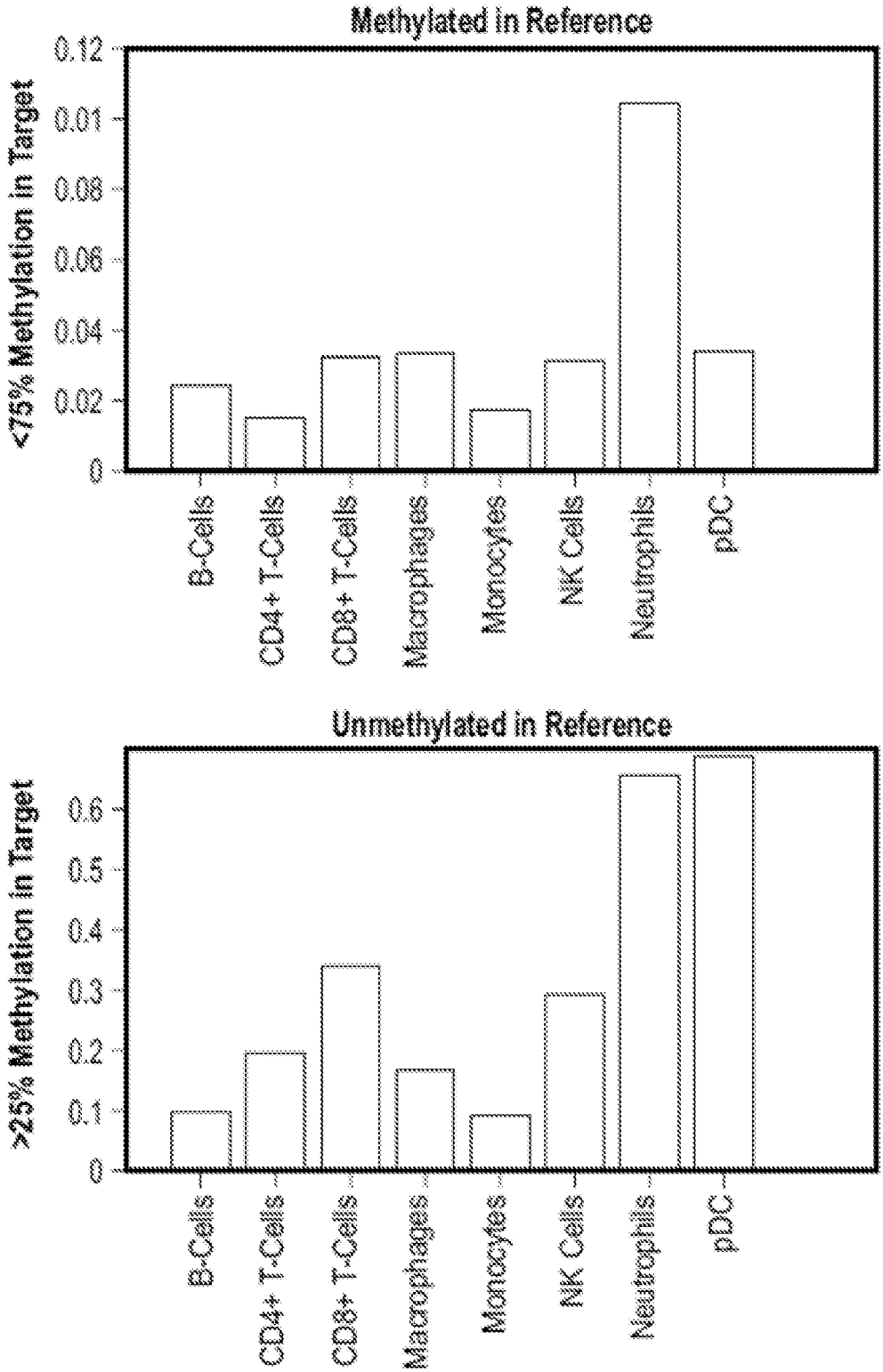
Methylated in Reference
<75% Methylation in Target
0.12
0.01
0.08
0.06
0.04
0.02
0
B-Cells
CD4+ T-Cells
CD8+ T-Cells
Macrophages
Monocytes
NK Cells
Neutrophils
pDC
Unmethylated in Reference
>25% Methylation in Target
0.6
0.5
0.4
0.3
0.2
0.1
0
B-Cells
CD4+ T-Cells
CD8+ T-Cells
Macrophages
Monocytes
NK Cells
Neutrophils
pDC

FIG. 3C

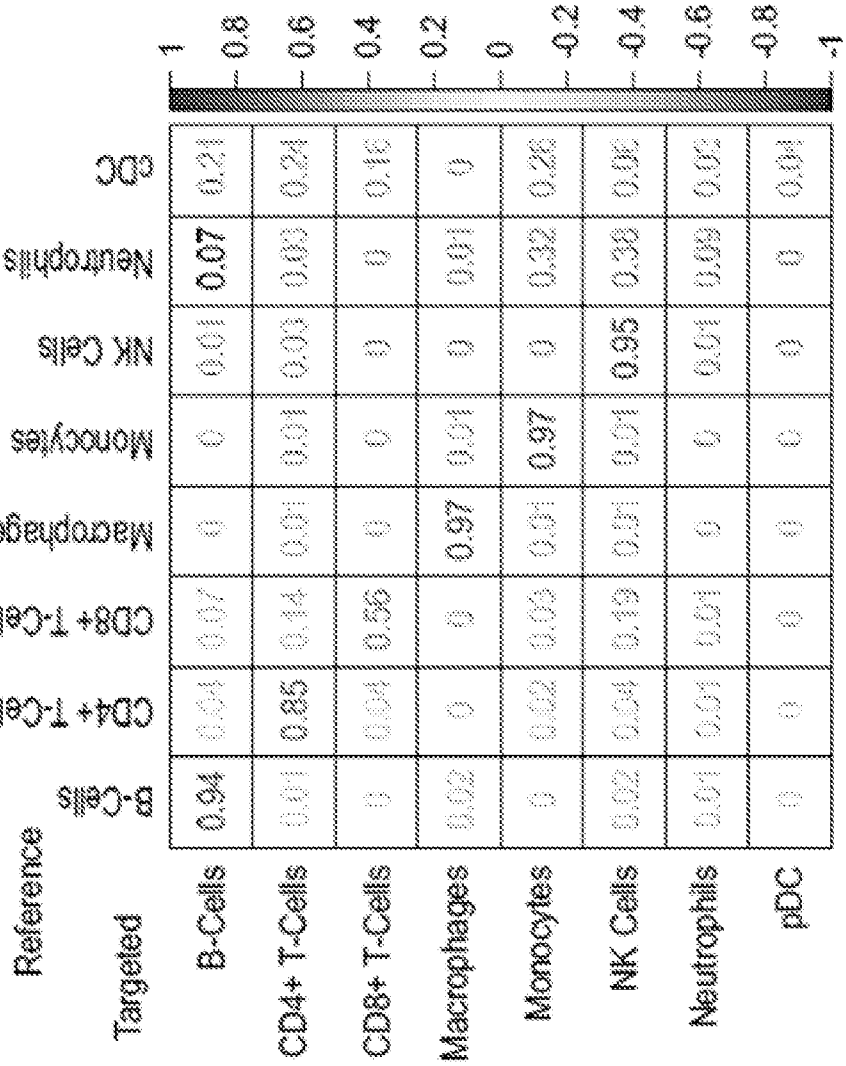
1
0.8
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
-0.8
-1
Reference
Targeted
B-Cells
CD4+ T-Cells
CD8+ T-Cells
Macrophages
Monocytes
NK Cells
Neutrophils
pDC
B-Cells 0.94 0.01 0 0.02 0 0.02 0.01 0
CD4+ T-Cells 0.04 0.85 0.04 0 0.02 0.04 0.01 0
CD8+ T-Cells 0.07 0.14 0.56 0 0.03 0.19 0.01 0
Macrophages 0 0.01 0 0.97 0.01 0.01 0 0
Monocytes 0 0.01 0 0.01 0.97 0.01 0 0
NK Cells 0.01 0.03 0 0 0 0.95 0.01 0
Neutrophils 0.07 0.03 0 0.01 0.32 0.30 0.09 0
cDC 0.21 0.24 0.16 0 0.28 0.06 0.02 0.01

FIG. 3D

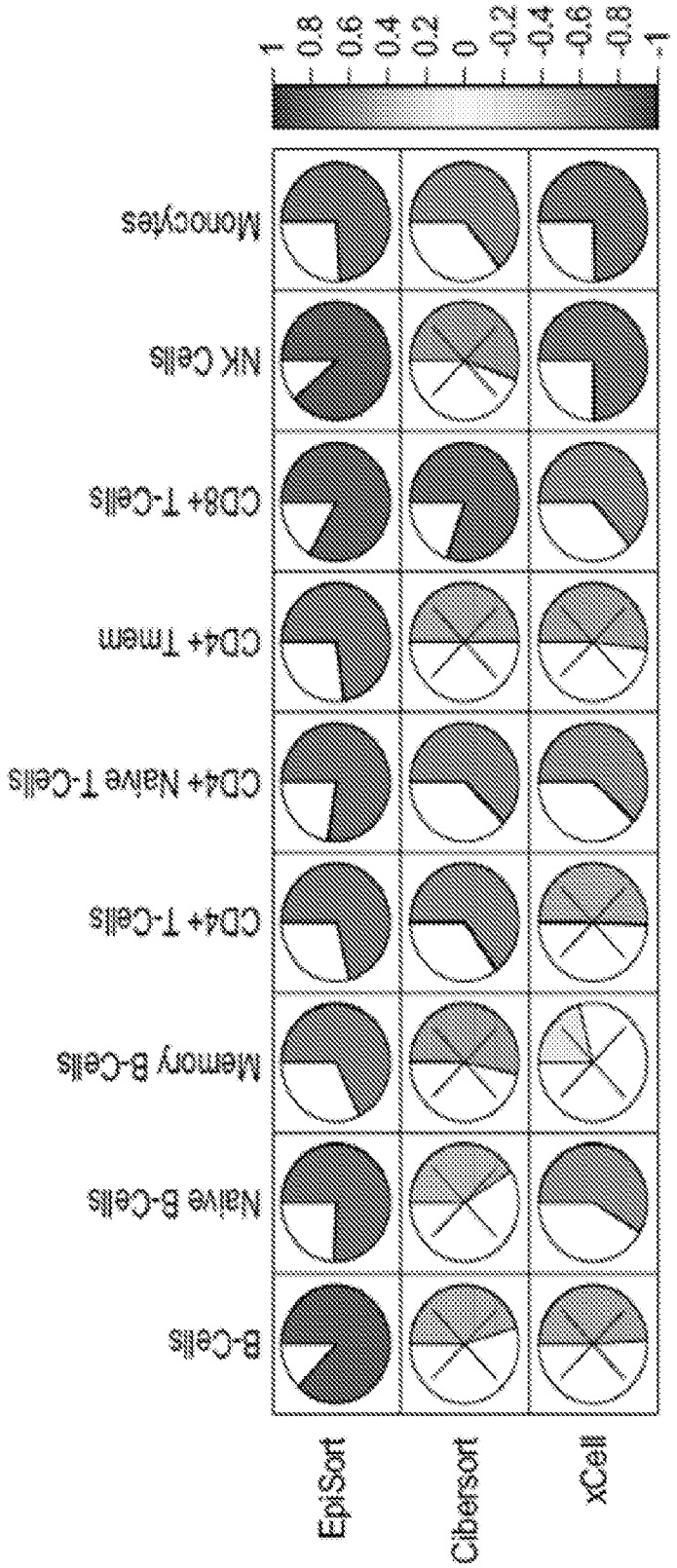
1
0.8
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
-0.8
-1
Monocytes
NK Cells
CD8+ T-Cells
CD4+ Tmem
CD4+ Naive T-Cells
CD4+ T-Cells
Memory B-Cells
Naive B-Cells
B-Cells
EpiSort
Cibersort
xCell

FIG. 4

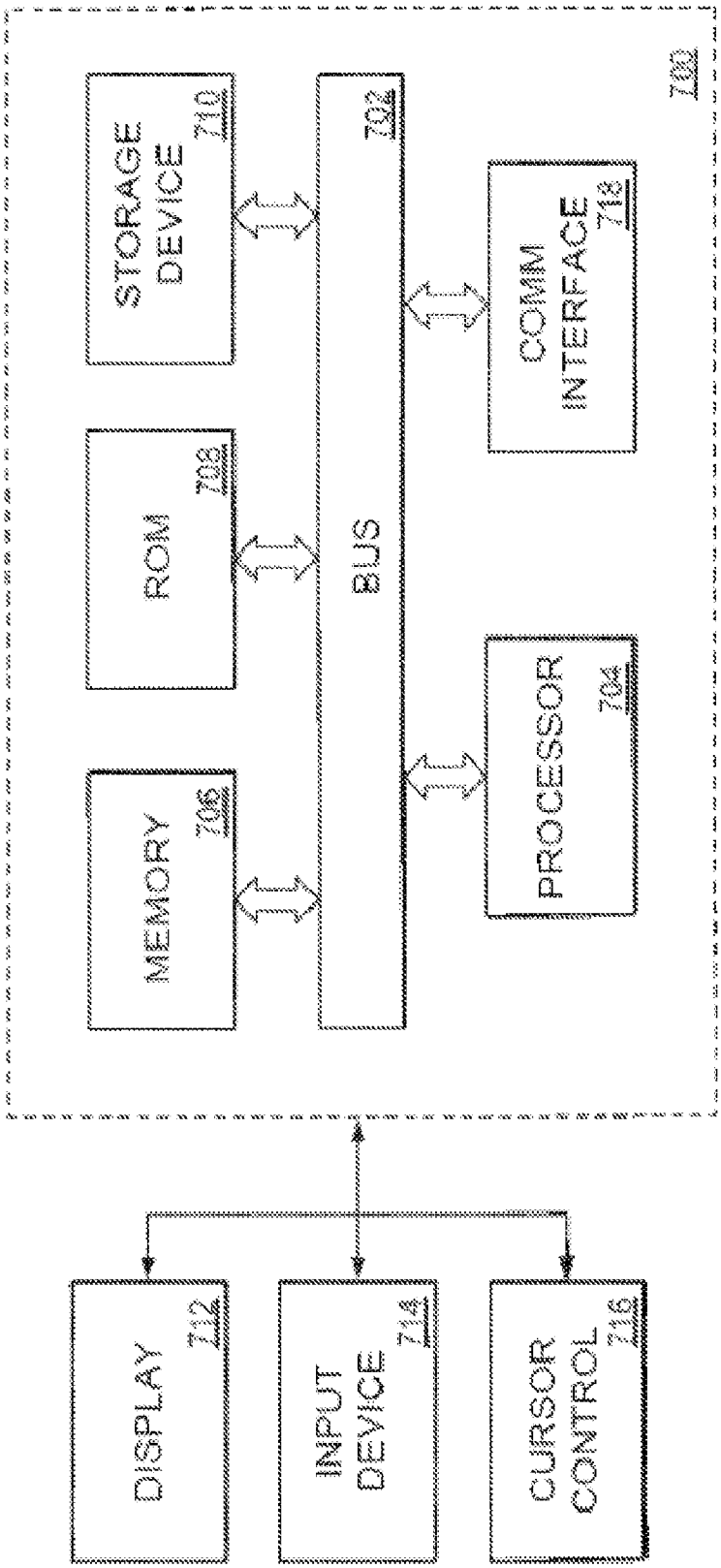
700
STORAGE DEVICE
710
702
COMM INTERFACE
718
ROM
708
BUS
MEMORY
706
PROCESSOR
704
DISPLAY
712
INPUT DEVICE
714
CURSOR CONTROL
716

FIG. 5

SUBSTITUTE SHEET (RULE 26)

Chromosome	Start (hg19)	Stop (hg19)	# of CpGs	HSC	CD4+ Naïve T-cell	CD8+ Naïve T-cell	Alternatively Activated Macrophage	Central Memory CD4+ Tcell	Central Memory CD8+ Tcell	Dendritic Cell	Natural Killer Cell	Effector Memory CD4+ Tcell	Effector Memory CD8+ Tcell	Erythroblast	Inflammatory Macrophage
chr1	138063	138121	6	0.97383	0.9661	0.97925	0.95583	0.93817	0.9648	0.99017	0.9483	0.9645	0.9663	0.91317	0.95975
chr1	1179470	1179529	5	0.9466	0.9754	0.9592	0.92136	0.9186	0.9598	0.8863	0.9712	0.9398	0.9588	0.9469	0.9453
chr1	1217150	1217208	8	0.966	0.955	0.97597	0.96042	0.4635	0.6618	0.88575	0.6989	0.42	0.9584	0.965	0.9561
chr1	1217187	1217208	4	0.96875	0.9619	0.97087	0.95905	0.4875	0.654	0.8805	0.6926	0.4128	0.9484	0.98325	0.9625
chr1	1217193	1217208	3	0.977	0.9596	0.96775	0.95787	0.478	0.6433	0.87917	0.685	0.395	0.945	0.9795	0.95767
chr1	1217258	1217307	6	0.9815	0.9677	0.96283	0.95463	0.48333	0.6507	0.90658	0.7235	0.4225	0.928	0.96575	0.94442
chr1	1222070	1222144	7	0.92529	0.9584	0.90186	0.91837	0.91586	0.963	0.85636	0.0465	0.8474	0.6941	0.92014	0.94086
chr1	1222089	1222144	5	0.9234	0.9595	0.9012	0.91508	0.9134	0.9542	0.8556	0.0486	0.8626	0.6889	0.9252	0.93937
chr1	1222700	1222769	5	0.9804	0.9748	0.93875	0.95608	0.9712	0.9682	0.8845	0.1196	0.9816	0.8779	0.9649	0.96403
chr1	1222741	1222769	4	0.9845	0.9738	0.94131	0.95475	0.968	0.9765	0.87175	0.1158	0.9863	0.8808	0.97475	0.96054
chr1	2305043	2305055	2	0.913	0.9727	0.9315	0.7743	0.974	0.83	0.2355	0.7335	0.905	0.9538	0.90425	0.89117
chr1	3643970	3644003	5	0.96	0.9443	0.96455	0.95844	0.9692	1	0.9769	0.9836	0.9618	0.9759	0.9392	0.9717
chr1	5959976	5959995	3	0.97333	0.9742	0.96117	0.96047	0.80933	0.3067	0.98083	0.9423	0.9623	0.955	0.922	0.96222
chr1	6015248	6015266	2	1	0.996	0.9645	0.2547	0.9695	1	0.83475	0.9808	0.9655	0.9855	0.9375	0.84617
chr1	6281208	6281264	5	0.9796	0.9787	0.9692	0.91184	0.964	0.9534	0.9609	0.9589	0.9588	0.9577	0.9236	0.96277
chr1	6282827	6283079	5	NaN	0.9668	0.96825	0.91392	0.9674	0.985	0.8799	0.9693	0.981	0.9611	0.9339	0.9296
chr1	6745528	6745537	3	0.96167	0.9742	0.90492	0.90987	0.19333	0.079	0.94533	0.888	0.225	0.2997	0.95467	0.90606
chr1	8419856	8419862	2	0.9335	0.2745	0.93125	0.9304	0.584	0.896	0.972	0.9905	0.8395	0.973	0.95675	0.97225
chr1	8922604	8922611	2	0.955	0.9815	0.45112	0.9142	0.9755	0.8205	0.935	0.8805	0.94	0.868	0.794	0.9355
chr1	9007823	9007893	6	0.93217	0.9734	0.95575	0.03127	0.9265	0.9403	0.17642	0.933	0.9203	0.9062	0.88167	0.04917
chr1	9007830	9007893	5	0.9246	0.9753	0.95515	0.017	0.9186	0.9284	0.1731	0.9306	0.9172	0.8961	0.8685	0.02983
chr1	9007853	9007897	5	0.9104	0.9721	0.95885	0.01584	0.8966	0.9034	0.1717	0.9232	0.9046	0.8766	0.8622	0.0287
chr1	9416528	9416684	5	0.9108	0.8796	0.77435	0.94748	NaN	0.4568	0.9651	0.917	0.6282	0.912	0.9256	0.95493
chr1	9716557	9716629	4	0.9475	0.2774	0.20731	0.95575	0.4845	0.1235	0.96988	0.9418	0.2528	0.3239	0.92125	0.96775
chr1	9731426	9731462	2	0.9495	0.951	0.9695	0.3999	0.83	0.828	0.44675	0.8688	0.7975	0.8903	0.913	0.8665
chr1	10594689	10594796	5	0.9404	0.9827	0.95975	0.96784	0.9588	0.9626	0.969	0.943	0.9506	0.9346	0.9377	0.97097
chr1	12128432	12128447	2	0.9715	0.976	0.95962	0.9411	0.925	0.9795	0.96775	0.936	0.9415	0.9448	0.943	0.95475
chr1	13394877	13394897	5	0.9212	0.9735	0.9608	0.94068	0.9372	0.9702	0.9441	0.9202	0.9078	0.9383	0.9527	0.95047
chr1	13422350	13422390	6	0.93067	0.9694	0.95721	0.94737	0.93583	1	0.96092	0.9643	0.9453	0.9545	0.90258	0.95594

FIG. 6

Chromosome	Start (hg19)	Stop (hg19)	# of CpGs	Macrophage	Eosinophil	Neutrophil	Memory B-cell	Monocyte	Naïve B-cell	Plasma Cell	Precursor B-cell	Regulatory T-cell
chr1	138063	138121	6	0.95293	0.9413	0.95168	0.95617	0.95275	0.9713	0.97842	0.98367	0.89433
chr1	1179470	1179529	5	0.94886	0.927	0.9383	0.0098	0.9349	0.06524	0.0447	0.0204	0.9726
chr1	1217150	1217208	8	0.96111	0.957	0.95873	0.94788	0.95775	0.97228	0.94744	0.97925	0.67075
chr1	1217187	1217208	4	0.96293	0.9508	0.96554	0.9515	0.95704	0.97645	0.95462	0.982	0.684
chr1	1217193	1217208	3	0.9629	0.947	0.9645	0.94667	0.95617	0.97233	0.95617	0.98033	0.69867
chr1	1217258	1217307	6	0.9629	0.9225	0.96708	0.95983	0.94408	0.9685	0.94817	0.972	0.73933
chr1	1222070	1222144	7	0.94971	0.7804	0.9299	0.937	0.94536	0.96583	0.90629	0.95614	0.94557
chr1	1222089	1222144	5	0.94859	0.7864	0.92797	0.9402	0.94407	0.96144	0.9166	0.9576	0.9452
chr1	1222700	1222769	5	0.95754	0.911	0.9479	0.9616	0.95307	0.9764	0.9285	0.9838	0.959
chr1	1222741	1222769	4	0.95811	0.9	0.94283	0.95925	0.95071	0.9755	0.94337	0.98525	0.96175
chr1	2305043	2305055	2	0.89807	0.99	0.95367	0.978	0.92017	0.9566	0.9805	0.933	0.948
chr1	3643970	3644003	5	0.96999	0.9666	0.9693	0.9884	0.96513	0.98752	1	0.9528	1
chr1	5959976	5959995	3	0.97014	0.8523	0.95867	0.974	0.96039	0.96537	0.936	0.97833	0.95933
chr1	6015248	6015266	2	0.82657	0.711	0.87217	0.9815	0.83333	0.9761	0.958	0.972	0.9455
chr1	6281208	6281264	5	0.95037	0.1094	0.94823	0.9748	0.9413	0.96756	0.9362	0.9824	0.9648
chr1	6282827	6283079	5	0.94446	0.119	0.92987	0.9482	0.93277	0.97312	0.9312	0.958	0.9526
chr1	6745528	6745537	3	0.89219	0.976	0.96506	0.56133	0.8755	0.93013	0.1265	0.98567	0.481
chr1	8419856	8419862	2	0.9315	0.94	0.95167	0.952	0.94925	0.9594	0.94375	0.9535	0.801
chr1	8922604	8922611	2	0.9325	0.952	0.91042	0.9155	0.9455	0.9681	0.805	0.9645	0.981
chr1	9007823	9007893	6	0.06912	0.9643	0.95042	0.02733	0.07096	0.44657	0.0575	0.95167	0.94883
chr1	9007830	9007893	5	0.04351	0.9642	0.9447	0.0244	0.04329	0.42532	0.0481	0.9466	0.947
chr1	9007853	9007897	5	0.0382	0.9534	0.93193	0.023	0.0358	0.40308	0.0447	0.9368	0.9338
chr1	9416528	9416684	5	0.95006	0.96	0.9476	NaN	0.94577	0.89072	0.1982	0.9322	0.269
chr1	9716557	9716629	4	0.97243	0.966	0.96721	0.96525	0.96854	0.974	0.96475	0.9755	0.77875
chr1	9731426	9731462	2	0.85043	0.9615	0.93942	0.8475	0.95358	0.9498	0.8155	0.9755	0.902
chr1	10594689	10594796	5	0.97223	0.9598	0.96707	0.8106	0.96793	0.96424	0.1787	0.977	0.9456
chr1	12128432	12128447	2	0.96943	0.96	0.94825	0.936	0.95592	0.9725	0.91475	0.9695	0.452
chr1	13394877	13394897	5	0.94126	0.9842	0.93123	0.9738	0.94593	0.95312	0.9342	0.984	0.9458
chr1	13422350	13422390	6	0.95131	0.9352	0.95136	0.93467	0.96869	0.96767	0.95258	0.93733	0.97167

***FIG. 6* (Continued)**

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chr1	13433832	13433912	6	0.91083	0.9808	0.96107	0.963	0.96383	0.9678	0.93733	0.9656	0.9537	0.9503	0.92525	0.95689
chr1	13433841	13433912	5	0.9054	0.9807	0.96455	0.96324	0.9638	0.9614	0.9366	0.9587	0.9496	0.9464	0.9203	0.96027
chr1	13439591	13439675	7	0.79857	0.9712	0.97868	0.96537	0.95614	0.9659	0.9545	0.9443	0.978	0.9744	0.9135	0.9616
chr1	15346400	15346461	3	0.967	0.9388	0.91633	0.65073	0.84367	0.9073	0.6255	0.1213	0.5483	0.3357	0.87783	0.74678
chr1	15588202	15588243	6	0.95917	0.9669	0.94254	0.9556	0.94967	0.966	0.89767	0.3068	0.9723	0.9338	0.94942	0.96919
chr1	15886477	15886504	4	0.01775	0.2257	0.26519	0	0.587	0.8115	0.02113	0.1335	0.8315	0.7605	0.016	0.00658
chr1	17127179	17127271	5	0.9848	0.9662	0.95985	0.92632	0.8908	0.9018	0.9504	0.9054	0.9546	0.9019	0.9125	0.95247
chr1	21336522	21336570	5	0.937	0.9748	0.9743	0.9674	0.9384	0.9446	0.9723	0.9685	0.9118	0.9516	0.9615	0.96343
chr1	21519337	21519358	4	0.9425	0.9798	0.96613	0.9335	0.965	0.9508	0.92837	0.9566	0.9348	0.9604	0.96662	0.95937
chr1	22094445	22094500	5	0.9684	0.9778	0.99475	0.97512	0.9852	1	0.9838	0.9749	0.9878	0.9653	0.9857	0.9583
chr1	22745783	22745834	5	0.96	0.9575	0.9636	0.9362	0.9686	0.9582	0.9519	0.9609	0.937	0.9693	0.8836	0.93567
chr1	24386687	24386713	2	0.9345	0.915	0.949	0.2291	0.879	0.94	0.5565	0.915	0.842	0.9198	0.935	0.85242
chr1	24483405	24483563	3	0.917	0.0205	0.12758	0.95527	0.17067	0.128	0.96567	0.8973	0.548	0.899	0.88917	0.96344
chr1	24507797	24507816	3	0.83933	0.5949	0.60767	0.9688	0.64533	0.2373	0.97017	0.9343	0.8883	0.954	0.96717	0.968
chr1	24860995	24861049	4	0.9725	0.97	0.94856	0.9547	0.92475	0.9128	0.89212	0.1541	0.9365	0.9034	0.9255	0.95696
chr1	24914310	24914376	4	0.96075	0.9719	0.94325	0.8633	0.96975	0.939	0.91775	0.0638	0.9548	0.7409	0.94112	0.93475
chr1	24964280	24964342	5	0.98	0.9222	0.12227	0.90544	0.8224	0.3382	0.8114	0.2313	0.5564	0.1604	0.9126	0.9416
chr1	24964288	24964342	4	0.98575	0.9253	0.10633	0.89475	0.803	0.309	0.80188	0.2001	0.52	0.1481	0.909	0.9345
chr1	24964515	24964565	6	0.96283	0.9242	0.07344	0.9523	0.92	0.204	0.90292	0.2852	0.7238	0.1117	0.9515	0.97078
chr1	24964526	24964565	5	0.9598	0.9272	0.06993	0.94764	0.9284	0.2212	0.9041	0.2841	0.7272	0.1163	0.9516	0.96993
chr1	24964529	24964565	4	0.956	0.9181	0.0661	0.94645	0.92925	0.2515	0.91087	0.3041	0.7493	0.1091	0.95188	0.97296
chr1	24964549	24964565	2	0.9515	0.9645	0.06217	0.9596	0.949	0.248	0.927	0.3428	0.7615	0.1068	0.97225	0.97225
chr1	24969902	24969915	3	0.98133	0.9676	0.27108	0.93995	0.947	0.6897	0.9665	0.9525	0.9693	0.8953	0.8215	0.94339
chr1	25698585	25698592	2	0.9275	0.9253	0.8915	0.9237	0.887	0.939	0.34925	0.9495	0.875	0.9178	0.91325	0.94925
chr1	26545919	26546029	5	0.0168	0.0075	0.0266	0.01928	0	0	0.0411	0.0032	0	0.0021	0.0088	0.0232
chr1	26637982	26638092	6	0.95633	0.9641	0.95012	0.9453	0.9125	0.9237	0.95675	0.917	0.8443	0.8548	0.94358	0.96303
chr1	27187024	27187059	5	1	0.9628	0.9508	0.93779	0.802	0.9284	0.9838	0.9394	0.9484	0.9355	0.8908	0.9792
chr1	27667711	27667810	5	0.932	0.9639	0.95685	0.14784	0.9226	0.973	0.3411	0.9582	0.9288	0.9693	0.947	0.06307
chr1	27667795	27667800	2	0.948	0.9563	0.96	0.1172	0.918	0.9905	0.31525	0.947	0.94	0.9563	0.967	0.06475
chr1	27890992	27891039	5	0.9102	0.9705	0.9678	0.94004	0.9548	0.9696	0.9434	0.9215	0.97	0.9652	0.9556	0.94893

***FIG. 6* (Continued)**

SUBSTITUTE SHEET (RULE 26)

chr1	13433832	13433912	6	0.95965	0.9647	0.96086	0.95433	0.94219	0.9571	0.92725	0.9695	0.9695	0.91767
chr1	13433841	13433912	5	0.95561	0.9576	0.959	0.9646	0.9458	0.9606	0.9348	0.9732	0.9732	0.9206
chr1	13439591	13439675	7	0.94978	0.9529	0.9464	0.94629	0.96081	0.96551	0.95686	0.96729	0.96729	0.96557
chr1	15346400	15346461	3	0.74019	0.809	0.88061	0.88933	0.78456	0.96267	0.859	0.97767	0.97767	0.845
chr1	15588202	15588243	6	0.97252	0.969	0.96017	0.97567	0.96653	0.9666	0.95817	0.962	0.962	0.95817
chr1	15886477	15886504	4	0.00368	0	0.00179	0.05475	0.004	0.00116	0.197	0.00425	0.00425	0.512
chr1	17127179	17127271	5	0.96029	0.9134	0.94053	NaN	0.95987	0.90928	0.1391	0.9766	0.9766	0.9158
chr1	21336522	21336570	5	0.95697	0.9522	0.95557	0.2036	0.9525	0.89276	0.1084	0.9808	0.9808	0.9824
chr1	21519337	21519358	4	0.94593	0.9283	0.9465	NaN	0.95371	0.02075	0.11075	0.759	0.759	0.96825
chr1	22094445	22094500	5	0.97297	0.966	0.98283	NaN	0.93919	0.97042	0.816	1	1	0.9858
chr1	22745783	22745834	5	0.93506	0.1038	0.89743	0.9578	0.9365	0.9692	0.8967	0.9846	0.9846	0.9656
chr1	24386687	24386713	2	0.83721	0.9225	0.96833	0.8875	0.96425	0.9447	0.8715	0.945	0.945	0.8385
chr1	24483405	24483563	3	0.96586	0.9623	0.96506	0.92	0.95411	0.94907	0.7075	0.97067	0.97067	0.08
chr1	24507797	24507816	3	0.98348	0.9553	0.97383	1	0.97056	0.95767	0.95567	0.99	0.99	0.51567
chr1	24860995	24861049	4	0.952	0.9355	0.95554	0.953	0.95812	0.9595	0.92362	0.978	0.978	0.951
chr1	24914310	24914376	4	0.92929	0.8235	0.89729	0.955	0.90354	0.96405	0.97562	0.985	0.985	0.97625
chr1	24964280	24964342	5	0.9306	0.8996	0.90437	0.7704	0.9373	0.94336	0.1342	0.954	0.954	0.7458
chr1	24964288	24964342	4	0.91929	0.8958	0.90179	0.752	0.929	0.9405	0.13688	0.94975	0.94975	0.718
chr1	24964515	24964565	6	0.9781	0.9783	0.96914	0.8085	0.94031	0.9666	0.13683	0.97533	0.97533	0.91
chr1	24964526	24964565	5	0.97577	0.9814	0.96647	0.805	0.9365	0.96716	0.1379	0.9704	0.9704	0.8966
chr1	24964529	24964565	4	0.97407	0.9768	0.97063	0.813	0.93658	0.96695	0.137	0.975	0.975	0.90125
chr1	24964549	24964565	2	0.978	0.9885	0.97425	0.8455	0.94267	0.9647	0.14625	0.982	0.982	0.941
chr1	24969902	24969915	3	0.95105	0.964	0.95344	0.96	0.92006	0.93168	0.91417	0.92833	0.92833	0.98867
chr1	25698585	25698592	2	0.93807	0.9845	0.94858	0.9225	0.94392	0.972	0.77125	0.9735	0.9735	0.9175
chr1	26545919	26546029	5	0.01591	0.0096	0.01223	0	0.02453	0.03036	0.0028	0.1082	0.1082	0
chr1	26637982	26638092	6	0.9506	0.9637	0.96639	NaN	0.95131	0.12394	0.28233	0.12567	0.12567	0.90633
chr1	27187024	27187059	5	0.98591	0.9692	0.9699	0.9464	0.96566	0.97942	0.9657	1	1	0.9778
chr1	27667711	27667810	5	0.06537	0.9154	0.94393	0.9616	0.5734	0.9688	0.9484	0.9746	0.9746	0.9724
chr1	27667795	27667800	2	0.05157	0.929	0.95358	0.973	0.5535	0.9695	0.955	0.988	0.988	0.966
chr1	27890992	27891039	5	0.9492	0.9066	0.96093	0.86	0.9524	0.9368	0.2042	0.9584	0.9584	0.9662

FIG. 6 **(Continued)**

chr1	28281108	28281195	3	0.92333	0.9679	0.95158	0.51848	0.79833	0.852	0.13733	0.9288	0.8627	0.875	0.935	0.80572
chr1	31624974	31625015	3	0.951	0.9853	0.973	0.84373	0.96333	0.916	0.40233	0.9517	0.9777	0.9458	0.9385	0.94072
chr1	31625002	31625015	2	0.9535	0.9833	0.96937	0.8155	0.958	0.9275	0.3655	0.9563	0.9765	0.934	0.9675	0.92975
chr1	31810261	31810309	4	0.95625	0.9758	0.97837	0.9417	0.94975	0.912	0.3605	0.9295	0.9335	0.9264	0.9395	0.92375
chr1	31810273	31810278	2	0.9705	0.9773	0.98087	0.9526	0.966	0.9375	0.3335	0.9088	0.9325	0.9413	0.92925	0.92758
chr1	31824984	31825073	5	0.9622	0.9887	0.9809	0.94792	1	0.9728	0.9771	0.9679	0.9656	0.9799	0.9613	0.9471
chr1	31825016	31825073	4	0.95275	0.9858	0.97875	0.9533	1	0.966	0.97675	0.9701	0.957	0.978	0.98225	0.95488
chr1	31851932	31851982	5	NaN	0.9596	0.96368	0.96359	1	0.9694	0.9859	0.9143	0.968	0.953	0.9275	0.95403
chr1	33027065	33027092	5	0.974	0.9726	0.95705	0.92976	0.925	0.9468	0.9345	0.9592	0.941	0.9505	0.9797	0.94823
chr1	35912078	35912125	6	0.94817	0.9796	0.98008	0.95533	0.97583	0.9545	0.97617	0.9565	0.9592	0.9773	0.92075	0.95347
chr1	35912082	35912099	4	0.95225	0.9807	0.98256	0.9674	0.96875	0.963	0.975	0.9583	0.9698	0.9821	0.94212	0.955
chr1	36120182	36120284	6	0.97417	0.9702	0.95392	0.0085	0.92033	0.9588	0.18092	0.9259	0.9005	0.9208	0.87875	0.05865
chr1	36120186	36120284	5	0.9744	0.9691	0.95375	0.00793	0.9196	0.9592	0.1864	0.9207	0.9098	0.9182	0.8861	0.06073
chr1	36273198	36273316	4	0.95825	0.9924	0.97294	0.8964	0.93175	0.9835	0.9785	0.9456	0.9173	0.984	0.08575	0.973
chr1	38844165	38844248	4	0.974	0.9893	0.975	0.94305	0.95925	0.9648	0.93075	0.9505	0.9623	0.9639	0.97325	0.94308
chr1	38857686	38857727	4	0.96225	0.9505	0.91806	0.9334	0.8015	0.8738	0.92812	0.8659	0.6033	0.3884	0.9255	0.96496
chr1	39264688	39264744	6	0.97033	0.9736	0.97496	0.96377	NaN	0.9675	0.93717	0.9618	0.9902	0.9779	0.95167	0.98178
chr1	41677410	41677423	2	0.9565	0.9618	0.96725	0.36946	0.9655	0.9575	0.40725	0.9658	0.9435	0.9458	0.8275	0.79458
chr1	41692122	41692250	6	0.95433	0.9785	0.95708	0.04306	0.9625	0.9545	0.18842	0.9771	0.9442	0.9647	0.88525	0.13404
chr1	42787426	42787470	5	0.96	0.9949	0.9915	0.94964	1	0.9818	0.9818	0.9688	0.9584	0.9658	0.987	0.98663
chr1	44637985	44638024	5	0.9636	0.9719	0.9711	0.94028	0.986	0.9672	0.9724	0.9657	0.966	0.9678	0.1489	0.96923
chr1	44637994	44638024	4	0.96525	0.9789	0.97169	0.93825	0.9825	0.9638	0.9725	0.9665	0.9638	0.9699	0.11875	0.96642
chr1	46321399	46321422	4	0.96425	0.9896	0.98975	0.94285	0.94225	1	0.971	0.9726	0.9918	0.9629	0.96337	0.98179
chr1	46332628	46332725	7	0.96029	0.9764	0.95925	0.93972	0.92543	0.9524	0.94893	0.9436	0.9044	0.9302	0.96079	0.95736
chr1	46332637	46332725	5	0.9666	0.9776	0.9651	0.93793	0.9084	0.9598	0.9391	0.9409	0.8984	0.9274	0.9539	0.955
chr1	46374007	46374106	6	0.98817	0.9743	0.94529	0.02984	0.98183	0.9473	0.16708	0.9225	0.963	0.9567	0.93225	0.06569
chr1	46374011	46374106	5	0.9858	0.9809	0.94355	0.03337	0.9832	0.9454	0.1665	0.9347	0.971	0.9531	0.9418	0.07437
chr1	46587088	46587290	6	0.94317	0.9543	0.93246	0.00748	0.96667	0.9572	0.09967	0.9728	0.9312	0.9633	0.90092	0.00814
chr1	46587100	46587290	5	0.9466	0.9601	0.93295	0.00725	0.975	0.9686	0.1036	0.9802	0.9316	0.9766	0.9184	0.00547
chr1	47409447	47409471	3	0.91433	0.9758	0.96917	0.87473	0.86567	0.9027	0.35633	0.958	0.8783	0.8768	0.8715	0.93561

FIG. 6 **(Continued)**

chr1	28281108	28281195	3	0.787	0.9367	0.91267	0.80833	0.82961	0.9312	0.512	0.97	0.91267
chr1	31624974	31625015	3	0.95367	0.8913	0.943	0.97133	0.956	0.98113	0.95767	0.956	0.97367
chr1	31625002	31625015	2	0.95121	0.903	0.9465	0.9785	0.96008	0.9851	0.96675	0.934	0.984
chr1	31810261	31810309	4	0.93396	0.954	0.97954	0.9505	0.96513	0.98155	0.90138	0.98725	0.95275
chr1	31810273	31810278	2	0.92907	0.9655	0.98117	0.9485	0.97233	0.9808	0.89375	0.9745	0.961
chr1	31824984	31825073	5	0.93874	0.0558	0.0618	0.9808	0.91483	0.97928	0.9232	0.9858	0.93
chr1	31825016	31825073	4	0.93525	0.0218	0.03754	0.976	0.90946	0.97865	0.938	0.986	0.9375
chr1	31851932	31851982	5	0.96494	0.9848	0.9551	0.9742	0.96047	0.95456	0.9413	0.96	0.9528
chr1	33027065	33027092	5	0.94834	0	0.78114	0.9476	0.9486	0.9711	0.9819	0.9836	0.9348
chr1	35912078	35912125	6	0.92395	0.0435	0.93136	0.9735	0.94503	0.97423	0.934	0.97117	0.97383
chr1	35912082	35912099	4	0.93279	0.0343	0.94846	0.96825	0.96125	0.97275	0.928	0.98	0.97125
chr1	36120182	36120284	6	0.01484	0.7563	0.4095	0.92883	0.02328	0.96357	0.776	0.98017	0.9505
chr1	36120186	36120284	5	0.01471	0.7322	0.337	0.9328	0.02327	0.9626	0.7771	0.9814	0.9508
chr1	36273198	36273316	4	0.97889	0.927	0.96675	0.9875	0.96792	0.95965	0.97075	0.96825	0.94275
chr1	38844165	38844248	4	0.94775	NaN	0.04592	0.975	0.94233	0.9804	0.91775	0.97875	0.9875
chr1	38857686	38857727	4	0.917	0.9408	0.95183	0.458	0.94363	0.9173	0.0645	0.97975	0.93825
chr1	39264688	39264744	6	0.97045	0.9538	0.96211	0.92717	0.97978	0.9532	0.96675	0.99333	0.992
chr1	41677410	41677423	2	0.809	0.879	0.95142	0.8725	0.88975	0.9238	0.90575	0.9315	0.9545
chr1	41692122	41692250	6	0.13797	0.8757	0.89689	0.88333	0.04142	0.96173	0.88092	0.96833	0.97433
chr1	42787426	42787470	5	0.98837	0.921	0.97047	0.9728	0.94508	0.9746	0.9403	1	1
chr1	44637985	44638024	5	0.96671	0.9764	0.96387	0.9526	0.9686	0.96936	0.9558	0.9718	0.9688
chr1	44637994	44638024	4	0.96371	0.9738	0.96421	0.946	0.96696	0.97095	0.95337	0.9675	0.9655
chr1	46321399	46321422	4	0.96456	0.9773	0.96558	0	0.97287	0.832	0.08575	0.974	0.967
chr1	46332628	46332725	7	0.94045	0.976	0.95788	NaN	0.94136	0.90417	0.05714	0.96729	0.98043
chr1	46332637	46332725	5	0.935	0.982	0.95987	NaN	0.94133	0.901	0.0584	0.9604	0.9726
chr1	46374007	46374106	6	0.03035	NaN	0.17983	0.69883	0.02872	0.94341	0.79675	0.96133	0.95017
chr1	46374011	46374106	5	0.03435	NaN	0.21387	0.743	0.03333	0.94693	0.8116	0.9652	0.9402
chr1	46587088	46587290	6	0.01993	0.12	0.00378	0.94283	0.03288	0.96757	0.91683	0.9825	0.98383
chr1	46587100	46587290	5	0.02068	0.1406	0.00293	0.935	0.03576	0.96836	0.9194	0.9878	0.9894
chr1	47409447	47409471	3	0.95362	0.9213	0.931	0.93067	0.94811	0.9726	0.808	0.97733	0.88733

FIG. 6 **(Continued)**

chr1	51731483	51731553	5	0.9652	0.9758	0.9555	0.95044	0.9342	0.9714	0.9752	0.9507	0.9378	0.9454	0.9635	0.96933
chr1	53283616	53283723	5	0.9432	0.968	0.9706	0.9628	0.9826	0.9732	0.9708	0.9739	0.97	0.9828	0.9258	0.9752
chr1	53561903	53562002	3	0.96067	0.9426	0.87433	0.94373	0.927	0.867	0.91367	0.285	0.8607	0.374	0.85267	0.94717
chr1	64875650	64875786	4	0.951	0.9587	0.87387	0.949	0.9895	0.9505	0.93837	0.096	0.96	0.893	0.89763	0.981
chr1	65599549	65599594	2	1	0.9513	0.96675	0.9696	1	0.916	1	0.9615	0.4665	0.8578	1	0.97558
chr1	66247522	66247568	3	0.97967	0.7071	0.89592	0.95153	0.15767	0.3	0.954	0.7978	0.0777	0.0933	0.90333	0.9675
chr1	74706934	74706959	2	NaN	0.95	0.89738	0.94237	0.55	1	1	0.925	1	1	0.95	0.9693
chr1	77771072	77771137	5	0.9648	0.9722	0.95735	0.93588	0.9688	0.9738	0.9791	0.9465	0.9376	0.9256	0.9288	0.9632
chr1	91923658	91923716	6	NaN	0.9896	0.96846	0.93607	0.93717	0.9828	0.997	0.9936	0.9925	0.9823	0.96533	0.98581
chr1	93505149	93505243	6	0.90183	0.9745	0.95846	0.93611	0.937	0.9637	0.97908	0.9441	0.9673	0.9403	0.95583	0.96781
chr1	93505171	93505243	5	0.9088	0.9741	0.9565	0.93833	0.9356	0.9564	0.9779	0.9664	0.9714	0.9451	0.9678	0.9704
chr1	94013289	94013356	3	0.74033	0.9407	0.94892	0.94237	0.88433	0.8377	0.9655	0.9465	0.8023	0.8802	0.15683	0.95754
chr1	100941988	100942037	4	0.90625	0.2105	0.22962	0.9741	0.774	0.9533	0.94287	0.5344	0.8928	0.9223	0.93125	0.97917
chr1	101239634	101239757	10	0.9696	0.4944	0.46387	0.95536	0.5225	0.294	0.92475	0.2724	0.188	0.2233	0.9621	0.97665
chr1	101246859	101246943	5	0.9732	0.9727	0.9482	0.942	0.9444	0.9548	0.9432	0.9193	0.9276	0.9489	0.9452	0.96537
chr1	113668642	113668685	5	1	0.9917	1	0.96532	0.9666	1	0.9833	0.9266	0.96	0.9684	1	0.98967
chr1	121271085	121271090	2	1	1	0.95937	0.52117	0.9375	1	0.607	0.85	0.818	0.889	0.933	0.68538
chr1	144415788	144415808	5	0.9708	0.9779	0.9696	0.94328	0.957	0.958	0.9791	0.9826	0.9328	0.9605	0.9512	0.96507
chr1	144415790	144415866	6	0.97067	0.9782	0.97429	0.95867	0.9675	0.957	0.98567	1	0.9432	0.9799	0.95783	0.96008
chr1	144415863	144415950	7	0.97571	0.9731	0.96818	0.9546	0.95329	0.9687	0.96714	0.9835	0.9606	0.9737	0.93671	0.97943
chr1	144415890	144415967	5	0.9784	0.9796	0.9614	0.9602	0.9694	0.9176	0.9649	0.9753	0.976	0.9781	0.9457	0.97562
chr1	144436988	144437123	6	0.9025	0.9852	0.96667	0.94103	0.9605	0.9722	0.97858	0.9779	0.9325	0.9599	0.91017	0.95896
chr1	145410470	145410525	5	0.9434	0.9699	0.9862	0.95952	0.9834	0.9714	0.9792	0.9842	0.9408	0.9944	0.9362	0.9691
chr1	147957923	147958060	9	0.92589	0.9606	0.95689	0.96629	0.95044	0.957	0.96067	0.9563	0.9704	0.9576	0.96328	0.96987
chr1	148021417	148021500	8	0.9745	0.9708	0.97941	0.92485	0.92375	0.9384	0.95681	0.9515	0.9483	0.959	0.9435	0.94769
chr1	148116264	148116367	5	NaN	0.9796	0.97125	0.95244	0.991	0.939	0.9968	0.9614	0.9942	0.9619	0.9728	0.97363
chr1	148126023	148126159	5	NaN	0.9638	0.9739	0.96092	0.9282	0.9776	0.9754	0.9599	0.9648	0.9626	0.862	0.96087
chr1	148126153	148126247	5	NaN	0.9562	0.95565	0.96151	0.9266	0.9878	0.9864	0.9585	0.951	0.9179	0.907	0.96638
chr1	148149418	148149462	6	0.9375	0.9791	0.97983	0.97077	0.97983	1	0.98758	0.9733	0.9697	0.9728	0.97458	0.98793
chr1	148159446	148159578	10	0.9799	0.9681	0.96825	0.94032	0.9456	0.9451	0.9572	0.9706	0.9392	0.9525	0.9638	0.97212

***FIG. 6* (Continued)**

SUBSTITUTE SHEET (RULE 26)

chr1	51731483	51731553	5	0.96309	0.979	0.95817	0.7938	0.9592	0.96096	0.2088	0.9612	0.9614
chr1	53283616	53283723	5	0.97	0.9654	0.66098	0.9632	0.9738	0.97536	0.9596	0.9638	0.9714
chr1	53561903	53562002	3	0.93195	0.899	0.95033	0.91167	0.93811	0.96793	0.763	0.95833	0.93333
chr1	64875650	64875786	4	0.97593	0.9685	0.97437	0.9035	0.97025	0.97465	0.91687	0.96925	0.993
chr1	65599549	65599594	2	0.953	1	0.94783	0.875	0.96058	0.9734	0.46425	0.9445	0.889
chr1	66247522	66247568	3	0.95776	0.94	0.965	0.33433	0.95844	0.923	0.082	0.97633	0.13933
chr1	74706934	74706959	2	0.96171	1	0.96883	NaN	0.96942	0.9917	0.90125	1	1
chr1	77771072	77771137	5	0.956	0.9732	0.95487	0.241	0.95147	0.85956	0.0908	0.97	0.9764
chr1	91923658	91923716	6	0.98081	0.9538	0.96826	0.9835	0.97133	0.9688	0.89683	1	0.96867
chr1	93505149	93505243	6	0.96193	0.1385	0.91353	0.97283	0.95889	0.96767	0.94592	0.9645	0.9765
chr1	93505171	93505243	5	0.96066	0.1382	0.91577	0.974	0.95781	0.9716	0.9524	0.9618	0.9718
chr1	94013289	94013356	3	0.9715	0.821	0.96056	0.797	0.95083	0.94728	0.66033	NaN	0.85633
chr1	100941988	100942037	4	0.97454	0.9708	0.97308	0.99075	0.96088	0.9742	0.9805	0.99	0.78
chr1	101239634	101239757	10	0.96973	0.9376	0.95877	0.8031	0.95662	0.92268	0.9222	0.9663	0.7673
chr1	101246859	101246943	5	0.95523	0.9648	0.9539	0.0036	0.9468	0.01748	0.1751	0.7704	0.9738
chr1	113668642	113668685	5	0.9889	0.9556	0.9697	0.9866	0.9779	0.96785	0.9616	1	0.9714
chr1	121271085	121271090	2	0.37383	0.95	0.95408	0.85	0.626	0.94983	0.16625	0.853	1
chr1	144415788	144415808	5	0.97894	0.986	0.9549	0.9682	0.97348	0.97436	0.9658	0.9104	0.95
chr1	144415790	144415866	6	0.9774	0.9715	0.96225	0.98117	0.97773	0.9773	0.95858	0.91467	0.95783
chr1	144415863	144415950	7	0.96794	0.9809	0.95352	0.95229	0.97437	0.96991	0.93707	0.971	0.92671
chr1	144415890	144415967	5	0.97334	0.977	0.95223	0.9502	0.97064	0.95828	0.9528	0.9904	0.979
chr1	144436988	144437123	6	0.9559	0.9673	0.95089	0.96183	0.96914	0.96278	0.95533	0.96683	0.94083
chr1	145410470	145410525	5	0.96488	0.9348	0.97283	0.964	0.96728	0.96708	0.9479	0.9372	0.9846
chr1	147957923	147958060	9	0.96063	0.9587	0.95717	0.98356	0.96818	0.97522	0.97494	0.94322	0.95178
chr1	148021417	148021500	8	0.93654	0.9563	0.9345	0.98638	0.95277	0.9616	0.94988	0.9335	0.97813
chr1	148116264	148116367	5	0.96526	0.9416	0.9758	0.9358	0.98176	0.95942	0.9441	0.9914	0.9888
chr1	148126023	148126159	5	0.96654	0.9742	0.94363	0.9734	0.9464	0.98135	0.9278	0.9498	0.9424
chr1	148126153	148126247	5	0.95334	0.992	0.94737	0.9914	0.94456	0.98275	0.9044	0.9362	0.9582
chr1	148149418	148149462	6	0.97526	0.9888	0.97114	0.976	0.96187	0.92196	0.99308	0.94733	0.97767
chr1	148159446	148159578	10	0.96514	0.9752	0.96343	0.9692	0.96438	0.97112	0.92015	0.9592	0.9571

FIG. 6 **(Continued)**

chr1	148159450	148159569	7	0.97857	0.9712	0.97564	0.93829	0.95843	0.9633	0.96521	0.9767	0.9367	0.9564	0.97579	0.97195
chr1	148159627	148159675	5	0.9726	0.964	0.95175	0.96916	0.9688	0.952	0.9621	0.9522	0.945	0.952	0.9493	0.97153
chr1	148159656	148159695	5	0.9748	0.9629	0.9467	0.9668	0.9594	0.9566	0.9669	0.949	0.951	0.9417	0.9524	0.97167
chr1	148159660	148159734	7	0.96514	0.9682	0.95121	0.96671	0.97743	0.9473	0.9515	0.9581	0.9601	0.952	0.951	0.96893
chr1	148159900	148160104	16	0.96375	0.9738	0.95956	0.95314	0.95762	0.9544	0.96266	0.9302	0.9542	0.9457	0.96134	0.9649
chr1	148159942	148160116	13	0.964	0.9733	0.95933	0.95866	0.94569	0.9344	0.96227	0.9377	0.9477	0.9434	0.95892	0.96904
chr1	148160005	148160104	9	0.96944	0.9745	0.95953	0.96264	0.95478	0.9534	0.96867	0.9554	0.9648	0.9532	0.96483	0.97219
chr1	148160886	148160968	6	0.9815	0.9648	0.96754	0.9458	0.95367	0.9292	0.97425	0.9531	0.9205	0.9373	0.928	0.96797
chr1	148160899	148160970	6	0.96817	0.9671	0.96933	0.9447	0.964	0.942	0.96983	0.9551	0.9393	0.9543	0.92617	0.96856
chr1	148160976	148161056	7	0.98529	0.973	0.97193	0.93874	0.93914	0.9276	0.95964	0.9531	0.9546	0.9656	0.96829	0.96988
chr1	148161199	148161339	9	0.98722	0.9694	0.97478	0.94978	0.94656	0.9764	0.96628	0.9329	0.9342	0.9458	0.95894	0.96893
chr1	148161320	148161407	9	0.98922	0.9748	0.97344	0.95456	0.95244	0.9371	0.97589	0.9455	0.9613	0.9669	0.97633	0.98169
chr1	148161336	148161407	6	0.99183	0.9751	0.96908	0.95493	0.95633	0.9217	0.97783	0.9408	0.9727	0.9741	0.97833	0.98267
chr1	148161806	148161845	5	0.9644	0.9721	0.97425	0.92924	0.9392	0.959	0.9885	0.9383	0.9506	0.9384	0.971	0.9626
chr1	148162153	148162241	7	0.97914	0.9766	0.97175	0.96503	0.96671	0.9393	0.96007	0.9321	0.9333	0.9501	0.95514	0.95943
chr1	148162492	148162582	6	0.97417	0.9636	0.96454	0.9724	0.98083	0.9447	0.95458	0.9291	0.9285	0.9117	0.94392	0.966
chr1	148365891	148365974	6	0.95533	0.9393	0.95171	0.947	0.9335	0.9695	0.97708	0.9529	0.9687	0.9555	0.89658	0.95922
chr1	148378578	148378761	11	0.96536	0.978	0.96775	0.94609	0.95645	0.9744	0.96891	0.9634	0.9292	0.9294	0.94264	0.96679
chr1	148378657	148378781	8	0.97337	0.9794	0.95359	0.9502	0.9455	0.9825	0.96856	0.9588	0.9086	0.9319	0.94944	0.96444
chr1	148387561	148387668	5	0.9726	0.9705	0.9691	0.94168	0.954	0.9314	0.9658	0.9673	0.9538	0.9523	0.9514	0.9571
chr1	148387563	148387761	6	0.96883	0.9669	0.96583	0.9305	NaN	0.9363	0.95375	0.9621	0.9498	0.9508	0.95	0.95929
chr1	148391181	148391374	5	0.983	0.9745	0.97095	0.97004	0.956	0.9624	0.9803	0.9527	0.9782	0.9844	0.9196	0.96247
chr1	148393416	148393736	5	0.953	0.9723	0.96345	0.957	0.9666	0.982	0.9535	0.9339	0.9286	0.9611	0.9499	0.97273
chr1	148393765	148393790	5	0.9736	0.9651	0.9761	0.9516	0.9658	0.941	0.954	0.9564	0.9618	0.957	0.9548	0.94813
chr1	148393771	148393824	6	0.96117	0.9603	0.97908	0.93807	0.977	0.9175	0.96017	0.9503	0.9492	0.9463	0.96183	0.95478
chr1	148434993	148435162	20	0.9619	0.9769	0.96426	0.97575	0.975	0.9744	0.9707	0.9492	0.9791	0.9696	0.966	0.9681
chr1	148434998	148435162	19	0.96268	0.9769	0.96488	0.97586	0.97505	0.9759	0.97026	0.9477	0.9812	0.9702	0.96682	0.96876
chr1	148435010	148435162	17	0.96571	0.9764	0.96475	0.97547	0.98053	0.9794	0.97018	0.9473	0.9807	0.9712	0.96521	0.96833
chr1	148435026	148435069	6	0.96817	0.9753	0.96921	0.9804	0.991	0.9867	0.961	0.9307	0.9808	0.9682	0.96575	0.96075
chr1	148435070	148435162	8	0.972	0.9788	0.96119	0.97325	0.97275	0.9795	0.97263	0.9617	0.9809	0.9718	0.96519	0.97148

FIG. 6 **(Continued)**

chr1	148159450	148159569	7	0.97173	0.9754	0.96548	0.98243	0.96626	0.97166	0.92957	0.96743	0.962
chr1	148159627	148159675	5	0.951	0.9726	0.9662	0.9606	0.9498	0.95812	0.8893	0.9372	0.9638
chr1	148159656	148159695	5	0.957	0.9676	0.9684	0.9682	0.95376	0.95676	0.9044	0.9414	0.9764
chr1	148159660	148159734	7	0.95918	0.9769	0.97124	0.97557	0.95837	0.95991	0.92557	0.94529	0.97471
chr1	148159900	148160104	16	0.96329	0.9781	0.95832	0.96569	0.96278	0.96627	0.94741	0.96587	0.9565
chr1	148159942	148160116	13	0.97181	0.9835	0.95694	0.96777	0.96358	0.96466	0.94258	0.96954	0.95708
chr1	148160005	148160104	9	0.97403	0.987	0.96291	0.97689	0.97267	0.96838	0.961	0.971	0.96833
chr1	148160886	148160968	6	0.96419	0.975	0.96186	0.9645	0.97093	0.97097	0.94042	0.97717	0.94983
chr1	148160899	148160970	6	0.96062	0.9695	0.96278	0.96317	0.9739	0.97153	0.94725	0.98	0.9435
chr1	148160976	148161056	7	0.97441	0.9474	0.96874	0.96414	0.97657	0.96549	0.94779	0.96657	0.95771
chr1	148161199	148161339	9	0.96679	0.9738	0.96606	0.96033	0.96871	0.96804	0.9375	0.97989	0.93889
chr1	148161320	148161407	9	0.97875	0.9649	0.97493	0.97822	0.96649	0.97276	0.93656	0.978	0.92733
chr1	148161336	148161407	6	0.97793	0.9592	0.97503	0.9855	0.9661	0.97613	0.925	0.97917	0.92533
chr1	148161806	148161845	5	0.97509	0.9656	0.9688	0.9704	0.96624	0.97632	0.9589	0.9836	0.9446
chr1	148162153	148162241	7	0.96565	0.9454	0.96281	0.97429	0.95726	0.96994	0.93729	0.96929	0.96571
chr1	148162492	148162582	6	0.96933	0.9785	0.96967	0.96583	0.96503	0.96653	0.93667	0.95383	0.94717
chr1	148365891	148365974	6	0.96131	0.9533	0.95806	0.94783	0.9564	0.95087	0.89792	0.94233	0.94
chr1	148378578	148378761	11	0.98062	0.9278	0.96597	0.96518	0.96338	0.96933	0.90918	0.976	0.97327
chr1	148378657	148378781	8	0.97509	0.9674	0.96052	0.96337	0.9592	0.9718	0.9105	0.97012	0.97275
chr1	148387561	148387668	5	0.96343	0.9428	0.9569	0.9558	0.9634	0.96708	0.9479	0.96	0.9684
chr1	148387563	148387761	6	0.9566	0.9182	0.94538	0.952	0.95273	0.96153	0.93183	0.9345	0.96367
chr1	148391181	148391374	5	0.96834	0.9592	0.9682	0.9518	0.96712	0.97632	0.8925	0.9704	0.972
chr1	148393416	148393736	5	0.95649	0.9688	0.96927	0.9596	0.95876	0.96876	0.9285	0.965	0.9534
chr1	148393765	148393790	5	0.96929	0.9572	0.9672	0.9462	0.96324	0.97852	0.9447	0.9758	0.9468
chr1	148393771	148393824	6	0.96279	0.9725	0.96883	0.93333	0.95883	0.97373	0.93567	0.97883	0.9215
chr1	148434993	148435162	20	0.97214	0.9682	0.96821	0.9604	0.96038	0.96296	0.95375	0.98025	0.9455
chr1	148434998	148435162	19	0.97113	0.9665	0.96843	0.96253	0.95984	0.96235	0.9535	0.98042	0.94558
chr1	148435010	148435162	17	0.97096	0.9661	0.96734	0.96488	0.95998	0.96209	0.95415	0.97941	0.94429
chr1	148435026	148435069	6	0.96688	0.9558	0.97092	0.9715	0.94617	0.95247	0.94542	0.97583	0.92767
chr1	148435070	148435162	8	0.97202	0.9725	0.96852	0.96325	0.97068	0.97172	0.96044	0.97888	0.95675

FIG. 6 **(Continued)**

chr1	148435082	148435162	6	0.97167	0.9769	0.96546	0.97427	0.97017	0.9863	0.97842	0.9644	0.9823	0.9742	0.95867	0.97053		
chr1	148530814	148530904	5	1	0.9687	0.96515	0.95104	0.9904	0.9472	0.9795	0.9437	0.9848	0.988	0.9445	0.96127		
chr1	150015531	150015562	2	0.8885	0.973	0.953	0.7966	0.9425	0.986	0.76975	0.9295	0.9015	0.942	0.94425	0.2078		
chr1	154456290	154456368	5	0.9786	0.9712	0.9549	0.07335	0.9324	0.9656	0.2211	0.9566	0.9572	0.9649	0.9104	0.1005		
chr1	154467621	154467640	4	0.9175	0.9343	0.92437	0.9509	0.3495	0.2583	0.95775	0.9386	0.6828	0.9009	0.94125	0.96825		
chr1	155717017	155717110	4	0.97725	0.9738	0.98112	0.9596	0.9345	0.9398	0.9645	0.9559	0.9305	0.956	0.93625	0.97621		
chr1	156157331	156157432	5	0.9846	0.9844	0.96815	0.94076	0.9684	0.9512	0.9482	0.9484	0.9268	0.8835	0.9185	0.9652		
chr1	156757622	156757738	4	0.913	0.9819	0.97913	0.92395	0.9395	0.9948	0.92563	0.9761	0.9745	0.951	0.18437	0.95717		
chr1	156757685	156757738	3	0.884	0.9758	0.97442	0.9244	0.93367	0.993	0.91233	0.9785	0.966	0.948	0.1245	0.95233		
chr1	157150945	157150982	3	0.95333	0.8342	0.929	0.9568	0.43733	0.371	0.9555	0.9498	0.663	0.947	0.94	0.95172		
chr1	158558589	158558655	5	1	0.952	0.9669	0.97664	0.9834	0.9714	0.9725	0.9374	0.9332	0.9698	0.996	0.94603		
chr1	159830934	159830973	4	0.9595	0.9678	0.98056	0.047	0.94425	0.9848	0.17862	0.8846	0.9463	0.9545	0.94025	0.23721		
chr1	159830968	159830973	2	0.945	0.9753	0.97975	0.08325	0.976	0.9845	0.1905	0.8943	0.9665	0.967	0.95425	0.3313		
chr1	160327460	160327539	6	1	0.9871	0.97713	0.95447	0.98883	0.9692	0.97592	0.9726	0.9917	0.976	0.95475	0.95617		
chr1	167512192	167512230	3	0.84267	0.1909	0.55908	0.91933	0.338	0.7953	0.82333	0.068	0.341	0.7462	0.86383	0.93083		
chr1	167516526	167516631	7	0.98157	0.0145	0.05343	0.94837	0.02714	0.0307	0.86371	0.0036	0.0113	0.0225	0.94693	0.96914		
chr1	167516538	167516631	6	0.98183	0.0139	0.05242	0.9486	0.026	0.0202	0.86475	0.0032	0.0083	0.0165	0.94817	0.97103		
chr1	167516582	167516631	5	0.9822	0.0125	0.05605	0.95124	0.0276	0.0174	0.8736	0.0038	0.0034	0.0129	0.9443	0.97517		
chr1	167517753	167517844	6	0.95883	0.0153	0.02267	0.92783	0.00233	0	0.77233	0	0	0	0.94117	0.95267		
chr1	167517794	167517844	5	0.9646	0.0161	0.0226	0.92912	0	0	0.77	0	0	0	0.9495	0.9498		
chr1	167517798	167517844	4	0.979	0.0186	0.02219	0.93685	0	0	0.769	0	0	0	0.9525	0.95521		
chr1	172717179	172717251	7	1	0.9824	0.95257	0.98703	0.97143	0.9763	0.99107	0.9941	0.9857	0.9734	0.95586	0.96923		
chr1	172717191	172717251	5	1	0.9879	0.9461	0.98184	0.96	0.9834	1	0.9917	0.98	0.9628	0.9465	0.96597		
chr1	173864870	173864941	3	0.93367	0.9287	0.87608	0.94933	0.32167	0.0517	0.94717	0.8457	0.2297	0.1372	0.83583	0.95533		
chr1	173864988	173865158	3	0.94267	0.9504	0.86483	0.948	0.34167	0.0943	0.96467	0.8657	0.2643	0.14	0.89383	0.95422		
chr1	173885683	173885875	11	0.99064	0.9638	0.94345	0.92505	0.97491	0.9859	0.95709	0.9521	0.9477	0.9721	0.95786	0.93759		
chr1	173885713	173885875	9	0.98856	0.962	0.94261	0.92676	0.97856	0.9828	0.9545	0.9578	0.9468	0.9695	0.95239	0.94285		
chr1	173885745	173885875	7	0.98529	0.9616	0.94789	0.94511	0.979	0.9943	0.95571	0.9661	0.9637	0.9744	0.94807	0.95624		
chr1	173885779	173885848	5	0.993	0.9639	0.94935	0.9458	0.9788	0.992	0.9591	0.9659	0.9628	0.9763	0.9577	0.9582		
chr1	173885788	173885875	5	0.9862	0.9657	0.9446	0.93836	0.9706	0.992	0.95	0.9586	0.9656	0.9747	0.9515	0.9515		

FIG. 6 **(Continued)**

chr1	148435082	148435162	6	0.97581	0.9778	0.96753	0.97167	0.96967	0.96967	0.96967	0.96558	0.983	0.95717	
chr1	148530814	148530904	5	0.95383	0.9792	0.97087	0.9752	0.9698	0.98216	0.9742	0.9702	0.962		
chr1	150015531	150015562	2	0.24417	0.903	0.93175	0.921	0.9073	0.9597	0.876	0.9765	0.945		
chr1	154456290	154456368	5	0.1276	NaN	0.01191	0.953	0.10055	0.97164	0.936	0.9644	0.9698		
chr1	154467621	154467640	4	0.95304	0.9425	0.9625	0.94475	0.9591	0.9583	0.85488	0.966	0.717		
chr1	155717017	155717110	4	0.96875	0.9648	0.97746	0.0495	0.9819	0.9453	0.18938	0.9855	0.9495		
chr1	156157331	156157432	5	0.96626	0.9516	0.94057	0.0846	0.96556	0.91684	0.0878	0.976	0.9472		
chr1	156757622	156757738	4	0.95829	0.8748	0.94218	0.95625	0.9538	0.96015	0.94188	NaN	0.979		
chr1	156757685	156757738	3	0.96162	0.897	0.93658	0.964	0.9552	0.9488	0.961	NaN	0.981		
chr1	157150945	157150982	3	0.96143	0.9497	0.9465	0.94467	0.95913	0.97487	0.85083	0.97333	0.48733		
chr1	158558589	158558655	5	0.97376	0.96	0.9778	0.9914	0.95575	0.96648	0.9382	0.9866	0.982		
chr1	159830934	159830973	4	0.24508	0.9315	0.93962	0.95675	0.83245	0.9712	0.9375	0.9665	0.96725		
chr1	159830968	159830973	2	0.33517	0.9445	0.96817	0.982	0.8834	0.9664	0.94625	0.971	1		
chr1	160327460	160327539	6	0.97264	0.0623	0.91447	0.93283	0.94673	0.98053	0.9775	0.982	0.96367		
chr1	167512192	167512230	3	0.91233	0.879	0.91072	0.94167	0.924	0.92147	0.889	0.895	0.15633		
chr1	167516526	167516631	7	0.96547	0.9429	0.9594	0.95914	0.96017	0.9596	0.9045	0.978	0.007		
chr1	167516538	167516631	6	0.96314	0.9413	0.95989	0.95233	0.96243	0.9569	0.90233	0.97433	0.003		
chr1	167516582	167516631	5	0.96317	0.9412	0.95833	0.945	0.9626	0.956	0.8945	0.9762	0.0036		
chr1	167517753	167517844	6	0.94352	0.9415	0.94178	0.93283	0.9457	0.9596	0.85808	0.96933	0		
chr1	167517794	167517844	5	0.94951	0.9408	0.93627	0.9262	0.94292	0.9592	0.8582	0.9654	0		
chr1	167517798	167517844	4	0.95736	0.9663	0.93696	0.9205	0.94805	0.9557	0.86387	0.96875	0		
chr1	172717179	172717251	7	0.99085	0.9764	0.96674	NaN	0.97024	0.96154	0.96636	0.97814	0.94871		
chr1	172717191	172717251	5	0.98719	0.967	0.96967	NaN	0.96474	0.95968	0.9663	0.9694	0.9282		
chr1	173864870	173864941	3	0.94833	0.3813	0.94261	0.23567	0.94327	0.9384	0.08633	0.96967	0.67933		
chr1	173864988	173865158	3	0.94624	0.912	0.95928	0.22767	0.9546	0.91613	0.095	0.97667	0.63267		
chr1	173885683	173885875	11	0.95579	0.2451	0.03506	0.95145	0.93045	0.97335	0.95859	0.97373	0.97927		
chr1	173885713	173885875	9	0.95525	0.2364	0.03383	0.95478	0.92664	0.97696	0.96256	0.97322	0.97933		
chr1	173885745	173885875	7	0.96318	0.2693	0.03833	0.96857	0.93706	0.97966	0.97536	0.96943	0.98171		
chr1	173885779	173885848	5	0.9622	0.1978	0.03447	0.969	0.94368	0.97768	0.9769	0.9744	0.9808		
chr1	173885788	173885875	5	0.95897	0.1856	0.03183	0.9706	0.93488	0.97856	0.974	0.9686	0.9808		

FIG. 6 **(Continued)**

chr1	178259254	178259293	5	0.9482	0.9721	0.97985	0.95184	0.9232	0.98	0.9852	0.961	0.9346	0.9338	0.9391	0.98467
chr1	178543695	178543760	5	0.9488	0.9865	0.97925	0.945	0.9564	0.9906	0.9436	0.9589	0.9776	0.9477	0.9597	0.96487
chr1	180090476	180090542	7	NaN	0.99	0.98454	0.96851	0.91786	1	0.97243	0.9822	0.992	0.9655	0.96721	0.9669
chr1	181132437	181132497	5	0.9782	0.9802	0.96625	0.96476	0.9364	0.9762	0.9501	0.9506	0.938	0.9363	0.9486	0.9518
chr1	181132454	181132520	5	0.9752	0.9771	0.96705	0.96244	0.9364	0.9664	0.9618	0.9563	0.943	0.9459	0.9441	0.95723
chr1	182878102	182878159	5	0.9656	0.8411	0.93255	0.97008	0.4946	0.5748	0.9835	0.9533	0.5688	0.8475	0.9638	0.96987
chr1	182878111	182878159	4	0.957	0.844	0.93788	0.9762	0.5065	0.5518	0.984	0.9446	0.5643	0.8588	0.96225	0.97175
chr1	191208665	191208721	7	0.99043	0.971	0.98039	0.95866	0.89071	0.9707	0.98236	0.9329	0.9369	0.9205	0.93121	0.95732
chr1	198678580	198678695	6	0.98317	0.0372	0.07708	0.9412	0.0675	0.1822	0.90942	0.1879	0.0198	0.0386	0.95242	0.95431
chr1	198678591	198678695	5	0.9798	0.0301	0.0701	0.944	0.0622	0.1946	0.9009	0.1555	0.0208	0.0351	0.955	0.95367
chr1	198678617	198678695	4	0.98725	0.0268	0.06869	0.95295	0.0635	0.212	0.89575	0.1449	0.0193	0.0388	0.96213	0.96204
chr1	198679174	198679258	6	0.972	0.0789	0.03492	0.95083	0.0435	0.0313	0.80642	0.0199	0	0.0033	0.94142	0.93167
chr1	198679194	198679258	5	0.9804	0.0774	0.03695	0.9648	0.0482	0.033	0.8174	0.0239	0	0.004	0.9575	0.94183
chr1	198679216	198679258	4	0.97975	0.0569	0.02875	0.96635	0.04475	0.0355	0.80363	0.014	0	0.005	0.95963	0.93358
chr1	198679954	198679990	5	0.9488	0.935	0.68575	0.94284	0.292	0.5496	0.9045	0.5113	0.1594	0.0759	0.9486	0.97663
chr1	198680061	198680140	7	0.96071	0.9391	0.81964	0.95274	0.55086	0.7223	0.96864	0.7871	0.3877	0.1907	0.95443	0.97893
chr1	198680094	198680140	5	0.9598	0.9291	0.80845	0.94848	0.5316	0.7092	0.9754	0.7794	0.3626	0.181	0.9511	0.9774
chr1	199056540	199056595	5	0.9294	0.9808	0.9866	0.95985	0.95	0.9694	0.9938	0.9132	1	0.9484	0.9419	0.95627
chr1	199308366	199308421	3	0.98133	0.8591	0.86533	0.93473	0.34	0.3773	0.98	0.8678	0.1247	0.1863	0.87117	0.97278
chr1	200286120	200286197	5	0.981	0.9751	0.93305	0.95804	0.938	0.967	0.9542	0.9595	0.9808	0.9465	0.9319	0.9673
chr1	205339784	205339804	3	0.97967	0.953	0.90167	0.9432	0.899	0.8823	0.952	0.8928	0.7473	0.246	0.92783	0.95661
chr1	206742995	206743066	3	0.94867	0.9169	0.88867	0.98933	0.75067	0.1823	0.9555	0.815	0.5193	0.521	0.837	0.98556
chr1	209838613	209838766	4	0.94225	0.976	0.97494	0.95025	0.99525	0.9695	0.93863	0.9571	0.9538	0.9758	0.909	0.9555
chr1	217704265	217704300	5	1	0.9822	0.9726	0.9784	1	0.975	0.97	0.9817	0.9666	0.9483	0.9518	0.97976
chr1	221845952	221846103	5	0.9576	0.9797	0.97545	0.95164	0.9358	0.959	0.9796	0.9679	0.9532	0.9438	0.8708	0.96733
chr1	223229324	223229339	2	1	0.7822	0.82362	0.9379	0.864	0.18	1	0.8603	0.9785	0.8035	0.97925	0.97167
chr1	224195777	224195791	3	0.97433	0.9684	0.95667	0.31557	0.91433	0.9797	0.23417	0.9627	0.9543	0.9177	0.93033	0.88522
chr1	224195849	224195872	2	0.95	0.9698	0.9635	0.1493	0.9195	0.9465	0.204	0.9655	0.907	0.9315	0.9475	0.71042
chr1	226735823	226735898	4	0.93075	0.0519	0.1365	0.9402	0.077	0.0898	0.96262	0.8606	0.1655	0.5194	0.94825	0.96046
chr1	226961147	226961208	3	0.96733	0.8752	0.91258	0.88287	0.58333	0.809	0.95633	0.9612	0.691	0.9023	0.95083	0.97078

***FIG. 6* (Continued)**

SUBSTITUTE SHEET (RULE 26)

chr1	178259254	178259293	5	0.97822	0.9666	0.9748	0.9586	0.95736	0.96856	0.8812	0.9876	0.9876
chr1	178543695	178543760	5	0.95997	0.9488	0.94967	0	0.95116	0.16336	0.2275	0.9684	0.9334
chr1	180090476	180090542	7	0.96596	0.9857	0.97412	0.97886	0.96946	0.98039	0.99107	0.99114	0.96586
chr1	181132437	181132497	5	0.93772	0.9286	0.96067	0.0186	0.95306	0.0438	0.2005	0.0334	0.9626
chr1	181132454	181132520	5	0.93898	0.9396	0.9594	0.0338	0.95158	0.04529	0.1901	0.0422	0.9618
chr1	182878102	182878159	5	0.96594	0.959	0.96957	0.9402	0.9669	0.96944	0.8278	0.9782	0.293
chr1	182878111	182878159	4	0.96407	0.9643	0.97162	0.93125	0.968	0.9679	0.85413	0.98175	0.28925
chr1	191208665	191208721	7	0.96124	NaN	0.94086	0.92186	0.97674	0.97374	0.90079	0.97043	0.94871
chr1	198678580	198678695	6	0.95293	0.875	0.91272	0.23033	0.92487	0.7986	0.18383	0.95433	0.041
chr1	198678591	198678695	5	0.95469	0.8878	0.92203	0.2354	0.92856	0.79284	0.19	0.9502	0.0458
chr1	198678617	198678695	4	0.96368	0.919	0.94471	0.24725	0.94015	0.8151	0.19475	0.95825	0.04875
chr1	198679174	198679258	6	0.9491	0.4553	0.59567	0	0.9086	0.05104	0.02992	NaN	0.01135
chr1	198679194	198679258	5	0.95603	0.5188	0.67393	0	0.9148	0.05517	0.0298	0.0416	0.0162
chr1	198679216	198679258	4	0.9525	0.4688	0.69042	0	0.90905	0.05526	0.02463	0.04825	0.01325
chr1	198679954	198679990	5	0.96794	0.9078	0.94477	0.919	0.96705	0.96768	0.8993	0.9826	0.326
chr1	198680061	198680140	7	0.97286	0.9729	0.97607	0.93743	0.96297	0.97554	0.90721	0.97757	0.585
chr1	198680094	198680140	5	0.97051	0.9712	0.97557	0.9334	0.96292	0.97264	0.8821	0.974	0.5772
chr1	199056540	199056595	5	0.95062	0.9876	0.9475	NaN	0.963	0.9872	0.9485	0.995	0.9492
chr1	199308366	199308421	3	0.97576	0.9727	0.97622	0.11567	0.94913	0.93513	0.10167	0.975	0.261
chr1	200286120	200286197	5	0.96091	0.9672	0.9569	0.0662	0.9636	0.11311	0.0855	0.0454	0.9302
chr1	205339784	205339804	3	0.96943	0.9213	0.94572	0.49967	0.9546	0.93293	0.13667	0.98933	0.849
chr1	206742995	206743066	3	0.95629	0.9723	0.95872	NaN	0.92953	0.90713	0.06217	0.95	0.79833
chr1	209838613	209838766	4	0.94218	NaN	0.11142	0.9505	0.9438	0.97215	0.9595	0.93975	0.9735
chr1	217704265	217704300	5	0.97434	0.9704	0.96413	NaN	0.956	0.95831	0.9539	0.98	0.9668
chr1	221845952	221846103	5	0.96374	0.9508	0.95657	0.9736	0.96032	0.9816	0.9296	0.9824	0.9846
chr1	223229324	223229339	2	0.94279	0.8805	0.9755	0.976	0.97313	0.984	0.96225	0.981	0.7835
chr1	224195777	224195791	3	0.90269	0.9903	0.95794	0.87433	0.91467	0.93433	0.92417	0.957	0.98267
chr1	224195849	224195872	2	0.69871	0.9215	0.95475	0.9015	0.7585	0.9197	0.75825	0.9695	0.9165
chr1	226735823	226735898	4	0.96089	0.8868	0.95687	0.93775	0.96105	0.96325	0.92475	0.97975	0.0715
chr1	226961147	226961208	3	0.95619	0.9523	0.94844	0.95833	0.96167	0.96993	0.86967	0.97667	0.289

FIG. 6 **(Continued)**

chr1	228730553	228730570	2	0.9775	0.9938	0.97862	0.9658	0.948	0.946	0.5135	0.9655	0.945	0.9553	0.83425	0.96692			
chr1	229326739	229326793	5	0.9818	0.9308	0.87995	0.93836	0.6636	0.4006	0.9499	0.9536	0.8492	0.9562	0.959	0.96923			
chr1	229326751	229326793	4	0.99075	0.9343	0.8815	0.9369	0.67625	0.3928	0.95275	0.9589	0.8585	0.965	0.9575	0.96817			
chr1	232611510	232611654	2	0.921	0.964	0.97575	0.0199	0.9535	0.931	0.164	0.9603	0.9555	0.9395	0.83425	0.0288			
chr1	234518222	234518346	5	0.9638	0.9598	0.90548	0.00595	0.9888	0.9536	0.0894	0.873	0.9394	0.9231	0.8993	0.01202			
chr1	235030101	235030160	4	0.9705	0.9392	0.96313	0.94262	0.926	0.4405	0.95213	0.9296	0.9045	0.9218	0.916	0.97858			
chr1	235908823	235908962	2	0.9615	0.9813	0.9595	NaN	0.917	0.9405	NaN	0.9693	0.949	0.914	0.90325	0.10725			
chr1	236158331	236158390	5	0.9878	0.9719	0.95305	0.98712	0.971	0.9434	0.9519	0.9879	0.9684	0.9609	0.9299	0.9624			
chr1	243267525	243267566	6	0.76583	0.9448	0.92612	0.02795	0.98717	0.9422	0.34508	0.9313	0.9558	0.9344	0.92283	0.03221			
chr1	243267532	243267566	5	0.7814	0.9445	0.9264	0.02764	0.9846	0.9418	0.3384	0.9313	0.966	0.9281	0.9133	0.03101			
chr1	244941252	244941293	5	0.9702	0.9754	0.9718	0.92628	0.9564	0.9486	0.9161	0.9611	0.9372	0.9401	0.9314	0.9511			
chr2	1713149	1713355	8	0.951	0.9528	0.96425	0.93845	0.8915	0.9155	0.92556	0.9174	0.8504	0.851	0.87356	0.94938			
chr2	3254484	3254585	4	0.949	0.9786	0.96175	0.9703	0.9685	1	0.93125	0.9723	0.9613	0.9776	0.92112	0.96558			
chr2	3427258	3427434	5	0.9348	0.9775	0.9588	0.95668	0.9584	0.9844	0.9575	0.9304	0.9448	0.9632	0.9032	0.96537			
chr2	3564007	3564146	5	0.9286	0.9764	0.96265	0.95428	0.9702	0.9708	0.947	0.9536	0.9666	0.9781	0.9098	0.9679			
chr2	5383728	5383784	5	0.9512	0.9884	0.9818	0.9298	0.9462	NaN	0.9755	0.9408	0.9752	0.9275	0.9412	0.9506			
chr2	7728919	7728947	5	0.991	0.9311	0.8988	0.9454	0.7762	0.5624	0.9714	0.9397	0.7142	0.272	0.9558	0.96394			
chr2	8260363	8260459	6	0.96133	0.9763	0.96592	0.95803	0.94783	0.9798	0.9455	0.2659	0.9497	0.9395	0.93142	0.97967			
chr2	8302582	8302596	2	0.8025	0.9895	0.89187	0.0408	0.8885	0.7975	0.20425	0.2073	0.4095	0.178	0.85425	0.09108			
chr2	8455418	8455491	4	0.9435	0.9769	0.94694	0.9472	0.95525	0.973	0.9125	0.126	0.973	0.9219	0.93675	0.96288			
chr2	8878891	8878994	7	0.99543	0.9872	0.99582	0.97149	0.97714	0.9643	0.98243	0.9875	0.9094	0.9979	0.92964	0.98171			
chr2	17643501	17643509	2	0.9585	0.9015	0.9585	0.282	0.91	0.9515	0.41225	0.8888	0.8335	0.8338	0.82925	0.14458			
chr2	20178122	20178144	2	0.8475	0.9577	0.89863	0.07728	0.9115	0.8455	0.157	0.9185	0.8805	0.8525	0.82975	0.05125			
chr2	25871653	25871686	5	0.9694	0.9592	0.94977	0.92352	0.971	0.9594	0.9428	0.9265	0.9506	0.957	0.9515	0.94013			
chr2	25871659	25871686	4	0.97425	0.9635	0.9459	0.9262	0.98875	0.9605	0.94825	0.9469	0.955	0.9575	0.9585	0.94421			
chr2	26275496	26275558	2	0.9785	0.9845	0.97325	0.09067	0.9775	0.947	0.865	0.9558	0.8905	0.9285	0.8435	0.96067			
chr2	26913103	26913125	2	NaN	0.9583	0.91425	0.27425	1	0.9165	NaN	1	1	1	1	0.2875			
chr2	28395281	28395291	2	0.417	0.9553	0.95008	0	0.9445	1	0	0.177	0.9285	0.6458	0.361	0.4585			
chr2	32132976	32133004	4	0.90175	0.9463	0.95188	0.02284	0.958	NaN	0.03675	0.9498	0.9803	0.9178	0.966	0.01775			
chr2	32500461	32500544	7	0.97043	0.9749	0.97729	0.96043	0.96914	0.9623	0.96021	0.9551	0.9573	0.9715	0.96307	0.98302			

FIG. 6 **(Continued)**

chr1	228730553	228730570	2	0.97043	0.967	0.97467	0.8875	0.9574	0.9747	0.839	0.954	0.933		
chr1	229326739	229326793	5	0.95826	0.9358	0.95883	0.9458	0.964	0.9546	0.9588	0.9084	0.3838		
chr1	229326751	229326793	4	0.95814	0.9305	0.95588	0.94225	0.96485	0.9537	0.95112	0.91125	0.384		
chr1	232611510	232611654	2	0.03186	0.946	0.93717	0.9335	0.7638	0.9768	0.75575	0.984	0.9685		
chr1	234518222	234518346	5	0.02025	0.258	0.01287	0.9618	0.03221	0.91295	0.953	0.8978	0.969		
chr1	235030101	235030160	4	0.96311	0.978	0.95992	0.943	0.96105	0.95155	0.91287	0.991	0.9575		
chr1	235908823	235908962	2	NaN	0.9905	0.95492	0.9915	0.7459	0.9745	0.91325	1	0.932		
chr1	236158331	236158390	5	0.95749	0.9938	0.96743	0.8454	0.97356	0.9602	0.2125	0.986	0.939		
chr1	243267525	243267566	6	0.04763	0.2342	0.02639	0.93283	0.08532	0.95653	0.92992	0.97283	0.9775		
chr1	243267532	243267566	5	0.04559	0.271	0.02717	0.9404	0.09598	0.95576	0.9266	0.9716	0.982		
chr1	244941252	244941293	5	0.94163	0.9676	0.971	0.019	0.94016	0.0534	0.1025	0.949	0.9634		
chr2	1713149	1713355	8	0.94577	0.9631	0.94152	NaN	0.93438	0.08939	0.28188	0.025125	0.9155		
chr2	3254484	3254585	4	0.97043	0.9695	0.96292	0.1315	0.95708	0.0219	0.2075	0	0.97		
chr2	3427258	3427434	5	0.96183	0.933	0.95	0.827	0.95403	0.9544	0.1529	0.9552	0.964		
chr2	3564007	3564146	5	0.96557	0.9266	0.95323	0.05	0.954	0.86428	0.1053	0.9638	0.9676		
chr2	5383728	5383784	5	0.95239	0.98	0.94737	1	0.93537	0.98352	0.9187	1	0.9804		
chr2	7728919	7728947	5	0.97714	0.9754	0.97513	0.9724	0.973	0.98572	0.9349	0.9744	0.9668		
chr2	8260363	8260459	6	0.97193	0.9673	0.95481	0.925	0.97642	0.97657	0.9135	0.9715	0.95417		
chr2	8302582	8302596	2	0.07479	0.042	0.151	0.731	0.02225	0.9236	0.17325	0.982	0.866		
chr2	8455418	8455491	4	0.95954	0.9418	0.88483	0.979	0.93733	0.9768	0.95487	0.994	0.95225		
chr2	8878891	8878994	7	0.95665	0.9517	0.97196	NaN	0.97164	0.97314	0.91764	0.96314	0.96129		
chr2	17643501	17643509	2	0.13636	0.922	0.91208	0.919	0.75383	0.9586	0.82025	0.952	0.9055		
chr2	20178122	20178144	2	0.1177	0.76	0.73975	0.875	0.78292	0.9395	0.7325	0.9395	0.954		
chr2	25871653	25871686	5	0.96509	0.0788	0.94247	0.9684	0.946	0.98108	0.9663	0.9512	0.9926		
chr2	25871659	25871686	4	0.96721	0.0758	0.94758	0.96875	0.956	0.9845	0.96162	0.945	1		
chr2	26275496	26275558	2	0.95771	0.991	0.96008	0.9685	0.95283	0.9486	0.91325	0.9525	0.9565		
chr2	26913103	26913125	2	0.7015	NaN	0.27335	1	0.305	0.98417	0.72675	1	0.8335		
chr2	28395281	28395291	2	0	NaN	0	0.4405	0.02717	0.4486	0.8325	0.514	0.9085		
chr2	32132976	32133004	4	0.04793	0.8448	0.1039	0.9315	0.05873	0.9666	0.94925	0.98425	0.96075		
chr2	32500461	32500544	7	0.97533	0.1906	0.96993	0.97243	0.97433	0.97417	0.96229	0.97786	0.97614		

FIG. 6 **(Continued)**

chr2	32500477	32500564	7	0.96686	0.9758	0.97861	0.96551	0.96214	0.9677	0.95893	0.9593	0.9569	0.9673	0.958	0.98248
chr2	37034528	37034571	5	0.981	0.9646	0.96085	0.93572	0.9156	0.9764	0.988	0.9784	0.9882	0.9827	0.9433	0.9394
chr2	37198113	37198154	5	0.9402	0.987	0.9448	0.90896	0.9866	0.9464	0.9472	0.9566	0.9378	0.9654	0.9342	0.93857
chr2	37689139	37689209	5	0.9878	0.9739	0.9806	0.96516	0.9846	0.9606	0.9428	0.9777	0.9754	0.977	0.9248	0.96413
chr2	38353861	38353932	4	0.93375	0.9576	0.87669	0.9519	0.53325	0.2965	0.912	0.1495	0.1995	0.3475	0.96037	0.96037
chr2	38353913	38353932	3	0.926	0.9722	0.9095	0.96193	0.568	0.3537	0.917	0.183	0.228	0.3787	0.9875	0.97067
chr2	38588502	38588507	2	0.9785	0.995	0.98588	0.9868	0.4125	0.703	0.9655	0.9638	0.7225	0.9613	0.94025	0.97225
chr2	39150281	39150333	4	NaN	0.9661	0.9785	0.96635	0.947	0.9925	0.97687	0.9345	0.9843	0.9666	0.12275	0.97225
chr2	39365459	39365494	5	0.932	0.9817	0.95875	0.95804	0.9888	0.9426	0.9305	0.9766	0.9636	0.9867	0.9447	0.9906
chr2	43236650	43236829	6	0.95467	0.9886	0.9636	0.03234	0.96267	0.9457	0.235	0.9736	0.9898	0.9628	0.9535	0.06235
chr2	43236775	43236829	5	0.9656	0.9882	0.96597	0.02896	0.9682	0.9388	0.2358	0.9748	0.9878	0.961	0.9636	0.06239
chr2	43385522	43385595	6	0.95083	0.9669	0.96483	0.95653	0.976	0.9343	0.95883	0.9058	0.931	0.9523	0.95342	0.96406
chr2	44163418	44163461	4	0.96575	0.9798	0.94856	0.96045	0.95725	0.9233	0.95112	0.9594	0.9613	0.9871	0.9415	0.96829
chr2	45881068	45881111	5	0.9	0.9507	0.9649	0.93436	0.975	0.9778	0.9823	0.8948	0.9604	0.9428	0.9582	0.968
chr2	46407032	46407077	5	0.9106	0.9787	0.9824	0.8984	0.9362	0.9688	0.9353	0.9813	0.9424	0.9703	0.8792	0.93067
chr2	46407042	46407077	4	0.94375	0.9759	0.98063	0.8913	0.9335	0.961	0.93863	0.985	0.9373	0.976	0.89412	0.92496
chr2	47034317	47034355	5	0.9912	0.9762	0.98205	0.9306	0.9676	0.9508	0.9339	0.9681	0.9772	0.9767	0.9447	0.91753
chr2	47072188	47072237	4	0.9465	0.9788	0.971	0.0072	0.93375	0.9523	0.067	0.8814	0.9238	0.9604	0.91	0.02342
chr2	47885320	47885392	4	0.99075	0.9523	0.92788	0.97634	0.96675	0.975	0.86475	0.0844	0.9578	0.738	0.97588	0.97567
chr2	55151062	55151074	2	0.91	0.9667	0.95688	0.01388	0.9665	0.9585	NaN	0.772	0.9785	0.9698	0.9005	0.3395
chr2	55153647	55153679	2	1	0.964	0.95625	NaN	1	0.9665	NaN	0.9735	0.975	0.938	1	0.0935
chr2	57992628	57992687	5	1	0.9713	0.96735	0.96008	0.9846	0.9804	0.9531	0.9458	0.9256	0.9523	0.9076	0.967
chr2	58134502	58134569	6	0.99017	0.9188	0.97425	0.97387	1	0.9862	0.96867	0.9951	NaN	0.9889	0.97958	0.9815
chr2	60083799	60083846	8	0.95437	0.9798	0.94551	0.98585	0.97275	NaN	0.95813	0.9704	NaN	0.9475	0.94806	0.9654
chr2	64326058	64326079	3	0.94067	0.0178	0.03675	0.7448	0.03167	0.0157	0.26017	0	0.012	0	0.87783	0.86017
chr2	64326066	64326079	2	0.955	0.0158	0.02988	0.7175	0.024	0.008	0.2	0	0.018	0	0.87625	0.83842
chr2	64548248	64548267	5	1	0.9833	1	0.94218	0.9556	1	0.9714	0.98	0.9666	0.9909	0.9204	0.98737
chr2	68822553	68822650	5	0.943	0.9813	0.96425	0.79984	1	0.9758	0.8854	0.9626	0.9848	0.9699	0.9442	0.85863
chr2	68826086	68826101	2	0.8955	0.9858	0.98475	0	0.9775	0.9235	NaN	0.97	0.99	0.9905	0.98	0.031
chr2	70181644	70181755	6	0.97183	0.9401	0.92079	0.92622	0.94333	0.9298	0.88933	0.1814	0.9382	0.9068	0.93767	0.93944

***FIG. 6* (Continued)**

SUBSTITUTE SHEET (RULE 26)

chr2	32500477	32500564	7	0.97573	0.1943	0.9696	0.97743	0.97379	0.9778	0.9635	0.97314	0.97614		
chr2	37034528	37034571	5	0.95964	0.98	0.94937	0.961	0.96529	0.97024	0.961	0.9938	0.9442		
chr2	37198113	37198154	5	0.95409	0.9258	0.94707	0.3288	0.95157	0.03804	0.3178	0.012	0.9608		
chr2	37689139	37689209	5	0.97674	0.9786	0.97577	0.9772	0.971	0.968	0.9304	0.9746	0.9524		
chr2	38353861	38353932	4	0.9595	0.9425	0.96454	0.8455	0.95737	0.9602	0.52512	0.9755	0.71425		
chr2	38353913	38353932	3	0.95743	0.9537	0.96739	0.884	0.96144	0.9656	0.61017	0.96733	0.78033		
chr2	38588502	38588507	2	0.97621	0.9585	0.961	0.9495	0.96517	0.9865	0.9665	0.9795	0.9445		
chr2	39150281	39150333	4	0.98614	0.9225	0.97337	0.96675	0.95312	0.97835	0.95375	0.989	0.9895		
chr2	39365459	39365494	5	0.97776	0.9486	0.97433	0.9836	0.97067	0.98972	0.9403	0.987	0.979		
chr2	43236650	43236829	6	0.05526	0.8845	0.7055	0.96833	0.15989	0.96883	0.94533	0.96417	0.97233		
chr2	43236775	43236829	5	0.05025	0.8814	0.68877	0.962	0.16563	0.981	0.9558	0.957	0.9782		
chr2	43385522	43385595	6	0.97105	0.9657	0.95839	0.21917	0.95639	0.92533	0.18608	0.94817	0.94017		
chr2	44163418	44163461	4	0.96925	0.839	0.02383	0.91075	0.95746	0.94695	0.94738	0.9435	0.95925		
chr2	45881068	45881111	5	0.98077	0.9514	0.9544	0.9846	0.9661	0.96196	0.8752	0.985	0.909		
chr2	46407032	46407077	5	0.92454	0.9142	0.05191	0.9628	0.9089	0.9658	0.9377	0.9696	0.9566		
chr2	46407042	46407077	4	0.91511	0.9298	0.04649	0.9535	0.90296	0.9642	0.94563	0.97025	0.94575		
chr2	47034317	47034355	5	0.87957	0.9468	0.95047	0.9834	0.9293	0.96936	0.9704	0.9766	0.961		
chr2	47072188	47072237	4	0.03989	0.9533	0.90742	0.85475	0.02583	0.9325	0.759	0.9715	0.945		
chr2	47885320	47885392	4	0.97329	0.9688	0.97013	0.96325	0.9705	0.98355	0.95488	0.97875	0.969		
chr2	55151062	55151074	2	0.07683	0.621	0.41927	NaN	0.0255	0.00883	0.05125	0.387	1		
chr2	55153647	55153679	2	0.3885	NaN	0.01285	1	0.05193	0.9645	0.64175	1	0.9285		
chr2	57992628	57992687	5	0.94246	0.9762	0.96583	0.9708	0.9625	0.9734	0.9545	0.9606	0.9246		
chr2	58134502	58134569	6	0.97926	0.9872	0.98394	0.924	0.97408	0.98433	0.96667	0.98067	1		
chr2	60083799	60083846	8	0.9698	0.9414	0.96306	0.971	0.96	0.98104	0.98275	0.97425	0.91475		
chr2	64326058	64326079	3	0.85986	0.9633	0.92328	0	0.87928	0.81113	0.06217	0.975	0.01467		
chr2	64326066	64326079	2	0.84321	0.961	0.91083	0	0.86208	0.8072	0.0635	0.972	0.0075		
chr2	64548248	64548267	5	0.98649	1	0.96802	1	0.9553	0.9584	0.9621	0.9858	1		
chr2	68822553	68822650	5	0.87599	0.8026	0.11519	0.9626	0.8419	0.97436	0.949	0.9692	0.958		
chr2	68826086	68826101	2	NaN	0.895	0.90017	0.992	0.80632	0.9599	0.96675	0.969	0.902		
chr2	70181644	70181755	6	0.95264	0.9392	0.87797	0.2665	0.93575	0.8841	0.126	0.91683	0.9265		

FIG. 6 **(Continued)**

chr2	74083915	74084054	6	0.38417	0.9608	0.96575	0.93787	0.94683	0.9337	0.95767	0.9488	0.9467	0.9522	0.08592	0.94811
chr2	74185486	74185551	5	0.9316	0.9717	0.9426	0.00415	0.9226	0.9292	0.1493	0.9294	0.9048	0.9099	0.9435	0.01404
chr2	74303997	74304052	5	0.9122	0.993	0.9688	0.97648	0.991	NaN	0.9683	0.9618	0.9882	0.9865	0.9451	0.96071
chr2	74653333	74653397	5	1	1	0.9832	0.95896	1	0.96	0.9846	0.987	0.9926	0.9794	0.9688	0.96923
chr2	74807282	74807301	4	0.95925	0.9778	0.9695	0.02673	0.96275	0.9593	0.19887	0.9858	0.9615	0.9509	0.93363	0.07358
chr2	74885549	74885586	4	0.96225	0.9583	0.91975	0.9452	0.952	0.9535	0.87338	0.1919	0.8848	0.8955	0.928	0.95021
chr2	79914090	79914155	6	0.92483	0.9898	0.96537	0.96697	0.95083	0.9363	0.963	0.9389	0.9663	0.9678	0.92217	0.95147
chr2	85633929	85633996	5	0.9646	0.9733	0.96272	0.96104	1	0.9778	0.9684	0.9739	0.96	0.9729	0.9544	0.9883
chr2	86785684	86785696	3	0.95833	0.9624	0.114	0.95473	0.902	0.038	0.94917	0.9122	0.889	0.2197	0.9455	0.96356
chr2	86786741	86786793	4	0.97275	0.9799	0.61519	0.9458	0.9725	0.19	0.95825	0.9313	0.9163	0.1833	0.93137	0.96883
chr2	86787176	86787187	2	0.9475	0.8527	0.15417	0.9355	0.842	0.1185	0.972	0.9163	0.8685	0.2315	0.92025	0.96042
chr2	97267303	97267700	7	0.91914	0.969	0.97107	0.96131	0.97671	0.9604	0.97457	0.9685	0.9506	0.9706	0.889	0.96998
chr2	101305089	101305137	3	0.98733	0.9256	0.85867	0.95527	0.79433	0.821	0.93217	0.413	0.4753	0.228	0.919	0.94728
chr2	102420014	102420041	3	0.95933	0.966	0.92825	0.97773	0.93967	0.947	0.89217	0.1073	0.378	0.6142	0.97267	0.96744
chr2	106159259	106159359	5	0.9492	0.9573	0.91	0.93664	0.4582	0.7776	0.9541	0.9012	0.7084	0.8981	0.9465	0.9543
chr2	106178912	106179002	4	0.08525	0.9716	0.9795	0.92485	0.9735	0.953	0.96812	0.9045	0.929	0.9555	0.1665	0.93908
chr2	111715358	111715368	2	0.9705	0.9828	0.945	0.8965	0.869	0.9815	0.3775	0.862	0.925	0.8725	0.90825	0.82608
chr2	112159554	112159673	10	0.9666	0.9799	0.97403	0.94894	0.9664	0.9854	0.971	0.9715	0.9661	0.9574	0.9518	0.96722
chr2	112159572	112159673	9	0.96533	0.9788	0.97358	0.95164	0.96511	0.9861	0.97267	0.9683	0.9682	0.9575	0.95222	0.9665
chr2	112159574	112159673	8	0.965	0.9791	0.97516	0.95453	0.96887	0.987	0.97381	0.9687	0.9699	0.9569	0.9545	0.9665
chr2	112159586	112159673	7	0.96743	0.9794	0.97661	0.95643	0.96757	0.9881	0.97629	0.9661	0.9701	0.9536	0.954	0.9696
chr2	112159594	112159673	6	0.969	0.9785	0.97975	0.95357	0.96767	0.9888	0.97833	0.9651	0.9717	0.9626	0.95825	0.97072
chr2	119430933	119431033	5	0.9836	0.9709	0.97305	0.96112	0.934	0.9316	0.9603	0.9362	0.9366	0.9228	0.9236	0.97147
chr2	119430965	119431055	5	0.983	0.9662	0.9711	0.95896	0.9512	0.9558	0.9527	0.9436	0.9528	0.9398	0.9194	0.96677
chr2	120308290	120308476	5	0.96	0.988	0.96565	0.961	0.9504	0.9572	0.9714	0.9568	0.917	0.9266	0.9061	0.96703
chr2	120328263	120328327	4	0.97475	0.9734	0.93488	0.9248	0.9455	0.9503	0.94987	0.9379	0.9425	0.9606	0.87787	0.9565
chr2	121058647	121058747	5	0.9404	0.9781	0.97125	0.94518	0.967	0.9632	0.9634	0.959	0.978	0.9689	0.9406	0.97027
chr2	121058684	121058747	4	0.9455	0.9793	0.97225	0.94347	0.96825	0.9648	0.97388	0.9571	0.9763	0.9686	0.94912	0.97029
chr2	127456707	127456797	4	0.9715	0.8988	0.93362	0.9556	NaN	0.1188	0.97225	0.9431	0.6933	0.6418	0.94562	0.96296
chr2	127466573	127466636	2	1	0.969	0.98037	0.9114	1	0.9595	0.4435	0.972	0.969	0.9733	0.9225	0.92825

FIG. 6 (Continued)

chr2	74083915	74084054	6	0.95	0.1557	0.91917	0.94733	0.95211	0.96607	0.94925	0.97017	0.961	
chr2	74185486	74185551	5	0.01521	0.0488	0.0301	0.0922	0.02597	0.86792	0.036	0.9164	0.9524	
chr2	74303997	74304052	5	0.97657	1	0.966	0.9934	0.98433	0.992	0.9817	1	0.938	
chr2	74653333	74653397	5	0.97498	1	0.97303	0.983	0.97793	0.97655	0.9789	1	0.9818	
chr2	74807282	74807301	4	0.07948	0.9283	0.97354	0.94075	0.10071	0.97385	0.88738	0.97425	0.98275	
chr2	74885549	74885586	4	0.96043	0.958	0.9655	0.97975	0.97025	0.9615	0.95437	0.9575	0.97125	
chr2	79914090	79914155	6	0.9371	0.9093	0.95433	0.91517	0.95178	0.9848	0.90208	0.98583	0.95483	
chr2	85633929	85633996	5	0.9116	0.9778	0.97079	0.9516	0.9606	0.98332	0.9738	0.9882	0.98	
chr2	86785684	86785696	3	0.95795	0.965	0.96144	0.984	0.95389	0.9806	0.97133	0.97433	0.92967	
chr2	86786741	86786793	4	0.96146	0.9723	0.95708	0.928	0.95321	0.9701	0.942	0.9365	0.9275	
chr2	86787176	86787187	2	0.93921	0.95	0.94725	0.9285	0.92742	0.9793	0.92275	0.9665	0.8635	
chr2	97267303	97267700	7	0.97678	0.9634	0.95845	0.97029	0.94721	0.97026	0.9525	0.97629	0.957	
chr2	101305089	101305137	3	0.95805	0.957	0.96411	0.81267	0.95522	0.96127	0.3145	0.98167	0.82367	
chr2	102420014	102420041	3	0.9679	0.935	0.97906	0.94567	0.97833	0.9768	0.938	0.97233	0.97033	
chr2	106159259	106159359	5	0.97129	0.9616	0.93207	0.968	0.96583	0.96508	0.9631	0.9754	0.33	
chr2	106178912	106179002	4	0.94436	0.361	0.92187	0.965	0.93312	0.9645	0.91213	0.95825	0.96525	
chr2	111715358	111715368	2	0.87143	0.8825	0.90825	0.972	0.88042	0.9665	0.92	0.968	0.947	
chr2	112159554	112159673	10	0.965	0.9486	0.96138	0.2457	0.96037	0.87288	0.1379	0.9514	0.9689	
chr2	112159572	112159673	9	0.96425	0.9458	0.95972	0.24256	0.959	0.87091	0.13306	0.95111	0.96878	
chr2	112159574	112159673	8	0.96386	0.9519	0.96135	0.2405	0.96015	0.8692	0.13219	0.95363	0.97312	
chr2	112159586	112159673	7	0.96384	0.9619	0.96479	0.23786	0.96105	0.86643	0.13021	0.95614	0.97314	
chr2	112159594	112159673	6	0.96343	0.963	0.96728	0.23733	0.96281	0.86217	0.12992	0.95967	0.97283	
chr2	119430933	119431033	5	0.9548	0.9556	0.93743	0.03446	0.947	0.67872	0.0733	0.7674	0.9586	
chr2	119430965	119431055	5	0.95511	0.9638	0.9343	0.0434	0.95127	0.65308	0.0759	0.7564	0.9582	
chr2	120308290	120308476	5	0.9542	0.9518	0.93397	0.1846	0.9442	0.90328	0.1329	0.9542	0.965	
chr2	120328263	120328327	4	0.92414	0.0335	0.13246	0.961	0.92017	0.9702	0.91787	0.96675	0.98525	
chr2	121058647	121058747	5	0.9618	0.0914	0.96433	0.957	0.96083	0.9766	0.9407	0.9612	0.9588	
chr2	121058684	121058747	4	0.96882	0.0668	0.96554	0.95725	0.96196	0.97305	0.936	0.95825	0.9525	
chr2	127456707	127456797	4	0.9625	0.959	0.95762	0.92575	0.95942	0.9694	0.71238	0.9735	0.87	
chr2	127466573	127466636	2	0.95379	0.9775	0.96675	0.9675	0.93883	0.9776	0.93125	0.963	0.959	

FIG. 6 **(Continued)**

chr2	127578176	127578236	6	0.953	0.9505	0.97175	0.96807	0.95133	0.9242	0.95508	0.9586	0.9517	0.9409	0.88275	0.96108
chr2	127752481	127752561	7	0.96029	0.9973	0.98001	0.984	0.978	0.978	0.96193	0.9704	0.984	0.9534	0.96157	0.97593
chr2	127752513	127752577	7	1	0.9973	0.98429	0.96914	0.98986	0.978	0.97279	0.9601	0.943	0.9628	0.97357	0.96683
chr2	127752520	127752577	6	1	0.9969	0.98167	0.964	1	0.9743	0.99083	0.9534	0.9433	0.9566	0.97558	0.97006
chr2	128854570	128854626	5	0.9752	0.9866	0.97225	0.97004	0.991	0.96	0.9722	0.9481	0.979	0.9608	0.9237	0.97897
chr2	130611030	130611048	6	0.93783	0.9586	0.95175	0.9549	0.97733	1	1	0.9889	0.9612	0.9793	0.97508	0.97475
chr2	130822276	130822380	5	0.9736	0.9743	0.9738	0.89899	0.9378	0.9846	0.9538	0.9555	0.9744	0.9349	0.8865	0.95504
chr2	134127612	134127670	4	0.967	0.0625	0.01894	0.92545	0.088	0.0323	0.792	0.023	0.0218	0.0388	0.8365	0.95804
chr2	135732650	135732674	3	0.969	0.9498	0.26808	0.94993	0.916	0.8363	0.97967	0.905	0.9527	0.7905	0.96	0.97722
chr2	151749144	151749227	2	NaN	0.9285	0.97033	0.92687	0.6	1	0.933	0.9605	1	0.9643	0.92275	0.96778
chr2	152042890	152042899	2	0.9705	0.9532	0.93937	0.115	0.9585	0.901	0.279	0.9093	0.8995	0.8705	0.83075	0.923
chr2	159519269	159519317	5	0.938	0.9761	0.97105	0.96459	0.975	0.9636	0.9909	0.9601	0.9888	0.9774	0.9852	0.96897
chr2	159519276	159519332	6	NaN	0.9769	0.96008	0.97276	0.97917	1	0.99242	0.9647	0.9907	0.9748	0.97725	0.96825
chr2	159519289	159519332	5	NaN	0.9826	0.9521	0.97816	0.975	1	1	0.9647	1	0.9697	0.9804	0.96903
chr2	160455783	160455886	8	0.928	0.9833	0.95811	0.97827	0.97613	1	0.98725	0.9426	0.9815	0.9367	0.93737	0.96815
chr2	168223381	168223469	5	0.9068	0.9739	0.9361	0.0215	0.941	0.9248	0.1834	0.8727	0.9256	0.9512	0.829	0.00735
chr2	174055018	174055047	2	0.972	0.9887	0.94975	0.8684	0.9735	0.945	0.963	0.933	0.939	0.958	0.97475	0.35067
chr2	175548571	175548627	6	0.92367	0.9811	0.96988	0.98227	0.972	NaN	0.99358	0.9481	0.9722	0.9386	0.95308	0.97961
chr2	175548579	175548627	5	0.919	0.9798	0.97295	0.98264	0.9664	NaN	0.9923	0.9501	0.9888	0.9425	0.9437	0.98357
chr2	177395339	177395414	3	0.916	0.9552	0.92742	0.86447	0.866	0.338	0.86817	0.8678	0.9093	0.9133	0.85483	0.86461
chr2	187375202	187375250	5	0.9818	0.9639	0.96185	0.9406	0.9846	0.9714	0.9838	0.9635	NaN	0.943	0.8912	0.98287
chr2	192614105	192614177	8	0.96162	0.9887	0.96444	0.94445	0.92413	1	0.98419	0.9449	0.9446	0.9541	0.92756	0.94967
chr2	197390821	197390898	5	0.9658	0.9521	0.9637	0.93168	0.9336	0.966	0.9489	0.9595	0.9816	0.9722	0.9696	0.9627
chr2	201085129	201085191	2	1	1	0.97138	NaN	0.941	0.7915	0.411	0.9125	0.822	0.9673	0.8375	0.30308
chr2	203835876	203835901	3	0.96833	0.9838	0.96133	0.95713	0.93367	0.9603	0.971	0.965	0.96	0.965	0.88733	0.97072
chr2	203835888	203835901	2	0.9525	0.9757	0.96313	0.9603	0.922	0.96	0.96625	0.9668	0.94	0.9725	0.8815	0.96625
chr2	203836206	203836215	2	0.925	0.9067	0.9255	0.9386	0.8515	0.9645	0.95075	0.9425	0.878	0.949	0.8725	0.9615
chr2	203836567	203836601	2	0.958	0.9463	0.95112	0.961	0.8225	0.981	0.95925	0.9748	0.901	0.9308	0.932	0.98183
chr2	203836608	203836617	2	0.962	0.9595	0.97687	0.9572	0.822	0.9415	0.9705	0.9695	0.944	0.954	0.93925	0.97242
chr2	203853749	203853959	3	0.95567	0.7977	0.91	0.94467	0.24333	0.3637	0.931	0.9297	0.494	0.9063	0.8485	0.94089

***FIG. 6* (Continued)**

SUBSTITUTE SHEET (RULE 26)

chr2	127578176	127578236	6	0.96721	0.9722	0.96131	0.0205	0.96708	0.06507	0.09233	0.14217	0.9475	
chr2	127752481	127752561	7	0.95624	0.9617	0.96162	0.99429	0.959	0.94835	0.98664	0.95829	0.989	
chr2	127752513	127752577	7	0.9571	0.9719	0.95574	0.955	0.96098	0.952	0.973	0.95814	0.978	
chr2	127752520	127752577	6	0.9539	0.9823	0.95761	0.9475	0.95883	0.94817	0.9685	0.95833	0.97433	
chr2	128854570	128854626	5	0.9856	1	0.9669	0.9138	0.98175	0.96884	0.9458	0.9798	NaN	
chr2	130611030	130611048	6	0.97533	0.9058	0.9435	0.9275	0.98279	0.977	0.94125	0.95217	0.99367	
chr2	130822276	130822380	5	0.96087	0.917	0.95743	0.9642	0.96203	0.97247	0.9129	0.9586	0.985	
chr2	134127612	134127670	4	0.94379	0.888	0.95438	0.0175	0.933	0.7335	0.13412	0.96725	0.05375	
chr2	135732650	135732674	3	0.95876	0.9757	0.96667	0.979	0.96283	0.95113	0.96283	0.97333	0.654	
chr2	151749144	151749227	2	0.94819	1	0.94992	NaN	0.95942	0.986	0.94475	0.9705	1	
chr2	152042890	152042899	2	0.92507	0.8695	0.95025	0.8095	0.93458	0.9424	0.5685	0.9295	0.936	
chr2	159519269	159519317	5	0.97929	0.977	0.9693	0.9664	0.97593	0.988	0.9611	0.9386	0.9858	
chr2	159519276	159519332	6	0.98686	0.9808	0.97736	0.972	0.97483	0.98567	0.9725	0.9525	0.97217	
chr2	159519289	159519332	5	0.9884	0.9876	0.98523	0.9664	0.98123	0.98548	0.9729	0.943	0.9666	
chr2	160455783	160455886	8	0.97852	0.9816	0.96704	0.95137	0.97094	0.96914	0.90419	0.96462	0.9275	
chr2	168223381	168223469	5	0.02843	0.2748	0.08689	0.9174	0.04217	0.94948	0.9128	0.9362	0.967	
chr2	174055018	174055047	2	0.42928	0.9575	0.97833	1	0.95308	0.9757	0.964	0.9775	0.975	
chr2	175548571	175548627	6	0.98017	0.9827	0.96797	0.9425	0.96597	0.98	0.92133	0.98133	0.98333	
chr2	175548579	175548627	5	0.98017	0.991	0.96643	0.9382	0.96823	0.976	0.9189	0.9776	1	
chr2	177395339	177395414	3	0.85686	NaN	0.71178	0.94133	0.85856	0.9486	0.9385	0.95433	0.965	
chr2	187375202	187375250	5	0.95126	0.9054	0.92003	0.9066	0.96617	0.98236	0.8365	0.968	0.9454	
chr2	192614105	192614177	8	0.95626	0.9391	0.95385	0.9345	0.96796	0.9763	0.92894	0.98325	0.94663	
chr2	197390821	197390898	5	0.95271	0.089	0.90413	0.9576	0.95383	0.96032	0.9384	0.9508	0.9748	
chr2	201085129	201085191	2	0.3489	NaN	0.32692	0.882	0.66692	0.9853	0.833	1	0.845	
chr2	203835876	203835901	3	0.98029	0.96	0.96822	0.97433	0.97244	0.97787	0.94783	0.98133	0.317	
chr2	203835888	203835901	2	0.982	0.947	0.96608	0.9685	0.97067	0.9716	0.9395	0.976	0.2695	
chr2	203836206	203836215	2	0.96843	0.9585	0.96175	0.9525	0.97225	0.9753	0.90475	0.9925	0.23	
chr2	203836567	203836601	2	0.97129	0.9785	0.97867	0.97	0.964	0.9789	0.91425	0.9875	0.2915	
chr2	203836608	203836617	2	0.97307	0.9805	0.97708	0.9845	0.96592	0.9762	0.986	0.9815	0.3165	
chr2	203853749	203853959	3	0.963	0.907	0.94022	0.93533	0.95728	0.95293	0.88283	0.933	0.01833	

FIG. 6 **(Continued)**

chr2	203870698	203870849	4	0.91225	0.9065	0.95981	0.9621	0.34875	0.7883	0.98213	0.9533	0.5678	0.9085	0.85588	0.96388
chr2	203870885	203870913	2	0.9215	0.9525	0.96725	0.9653	0.641	0.867	0.986	0.9733	0.809	0.959	0.87075	0.97758
chr2	206172458	206172473	5	1	1	0.98065	0.99137	0.9618	1	0.9598	0.9917	0.98	0.96	0.9655	0.99333
chr2	209752035	209752054	5	0.9378	0.9767	0.97947	0.97416	1	1	0.9875	0.9701	0.8902	1	0.9313	0.96402
chr2	209752042	209752072	5	0.9128	0.9736	0.98105	0.96136	1	0.9778	0.9875	0.9668	0.9184	0.99	0.93	0.97539
chr2	213133622	213133664	5	0.9858	0.9766	0.95908	0.94895	0.918	0.7872	0.953	0.9255	0.9756	0.9057	0.9708	0.9674
chr2	213133629	213133664	4	1	0.9783	0.95719	0.94931	0.91675	0.7965	0.96087	0.9228	0.9923	0.896	0.98938	0.96429
chr2	213133647	213133664	3	1	0.9832	0.963	0.94848	0.91667	0.8	0.96167	0.9197	1	0.9173	0.9925	0.969
chr2	213135646	213135878	6	0.95133	0.9403	0.94704	0.95607	0.82883	0.9272	0.97342	0.9455	0.9608	0.9241	0.94158	0.96856
chr2	213135815	213135878	5	0.9416	0.9537	0.9419	0.96568	0.8032	0.9126	0.9743	0.9439	0.953	0.9271	0.9453	0.96943
chr2	213135980	213136007	3	0.934	0.9501	0.88492	0.9402	0.77567	0.894	0.9615	0.9478	0.9313	0.9197	0.91433	0.96189
chr2	218079722	218079775	2	0.9555	0.9398	0.94288	0.7564	0.896	0.917	0.29125	0.9263	0.912	0.8565	0.8985	0.93908
chr2	219448634	219448674	6	0.03183	0.0606	0.0415	0.01557	0.0875	0.0512	0.00467	0.0237	0.0765	0.1913	0.02158	0.01506
chr2	228099993	228100053	5	0.833	0.973	0.9696	0.96781	0.978	0.9882	0.9746	0.9507	0.9212	0.9887	0.8581	0.9643
chr2	229900763	229900788	3	0.985	0.9112	0.91142	0.91707	0.19233	0.235	0.91217	0.8908	0.1723	0.3782	0.95883	0.96328
chr2	230203425	230203505	7	0.96814	0.9767	0.97168	0.94943	0.84343	0.8227	0.96036	0.9751	0.9029	0.9627	0.96114	0.97571
chr2	230203429	230203505	6	0.973	0.9771	0.97229	0.94987	0.846	0.825	0.96117	0.9755	0.9	0.9601	0.962	0.97544
chr2	230203437	230203505	5	0.9744	0.9765	0.9712	0.95036	0.8504	0.8208	0.9659	0.9767	0.8922	0.9603	0.9645	0.97503
chr2	231528498	231528554	4	0.96025	0.9775	0.94206	0.9423	0.946	0.9463	0.8885	0.0714	0.9505	0.8288	0.95075	0.96229
chr2	231528705	231528763	5	0.9664	0.9795	0.9429	0.91632	0.9508	0.959	0.9233	0.0717	0.9274	0.8767	0.9266	0.95777
chr2	231538674	231538720	6	0.97917	0.972	0.96229	0.97767	0.9505	1	1	0.9361	0.968	0.9805	0.91617	0.94418
chr2	236526320	236526379	5	0.9754	0.9833	0.9685	0.97425	0.9342	0.975	0.9955	0.9851	0.9644	0.9725	0.9075	0.95367
chr2	237888341	237888348	2	1	0.9738	0.96792	0.2899	0.9525	0.969	0.5385	0.9268	0.9665	0.919	0.923	0.91008
chr2	237989855	237990094	7	0.97786	0.979	0.95154	0.90981	0.94629	0.9933	0.93986	0.9418	0.9753	0.9834	0.94021	0.91379
chr2	237989888	237990094	6	0.97983	0.9755	0.94975	0.91835	0.94917	0.9922	0.94275	0.9356	0.9767	0.9828	0.94883	0.92478
chr2	237989915	237990094	5	0.9758	0.9768	0.94845	0.92262	0.9568	0.9906	0.9432	0.938	0.976	0.9822	0.9488	0.92757
chr2	237990009	237990094	4	0.9845	0.9788	0.94525	0.93033	0.97575	0.9933	0.94525	0.9248	0.985	0.9824	0.94875	0.93467
chr2	238067894	238067962	2	0.95	0.9595	0.58825	0.9619	0.906	0.275	0.9875	0.8908	0.9415	0.7285	0.97925	0.96758
chr2	238422385	238422452	3	0.91533	0.9687	0.96808	0.95767	0.995	0.95	0.98933	0.9702	0.9283	0.9385	0.16183	0.96439
chr2	238468820	238468870	3	0.934	0.9376	0.92183	0.9402	0.17	0.1113	0.97317	0.949	0.227	0.4613	0.8535	0.96778

FIG. 6 **(Continued)**

chr2	203870698	203870849	4	0.97357	0.9108	0.95533	0.96075	0.9765	0.9688	0.91963	0.97325	0.0495	
chr2	203870885	203870913	2	0.96936	0.935	0.96108	0.989	0.98208	0.9782	0.90325	0.9685	0.154	
chr2	206172458	206172473	5	0.97943	0.9714	0.9888	0.9596	0.97307	0.97716	1	NaN	1	
chr2	209752035	209752054	5	0.96634	1	0.95486	0.9596	0.97087	0.92032	0.9875	NaN	0.9666	
chr2	209752042	209752072	5	0.95421	1	0.95407	0.9444	0.97123	0.94212	0.9909	0.9692	1	
chr2	213133622	213133664	5	0.94469	0.8766	0.9748	0.9394	0.96993	0.96892	0.9712	0.988	0.39	
chr2	213133629	213133664	4	0.94807	0.9208	0.97929	0.9405	0.96875	0.96595	0.98413	0.99225	0.3875	
chr2	213133647	213133664	3	0.9441	0.9277	0.98139	0.93167	0.96778	0.9604	0.99467	0.98967	0.38333	
chr2	213135646	213135878	6	0.95755	0.9213	0.96933	0.9785	0.95628	0.97283	0.93933	0.98233	0.282	
chr2	213135815	213135878	5	0.95263	0.9328	0.97377	0.9866	0.95717	0.9764	0.9458	0.9788	0.2784	
chr2	213135980	213136007	3	0.962	0.9557	0.96544	0.956	0.95183	0.962	0.937	0.95467	0.326	
chr2	218079722	218079775	2	0.93686	0.9355	0.93083	0.9225	0.95167	0.9566	0.87825	0.9575	0.914	
chr2	219448634	219448674	6	0.01038	0.0167	0.01	0.0081	0.01594	0.03407	0.21008	0.016333	0.07567	
chr2	228099993	228100053	5	0.93846	0.9916	0.94317	0.98	0.96738	0.964	0.9183	0.965	0.9268	
chr2	229900763	229900788	3	0.95576	0.9577	0.95406	0.40133	0.96072	0.9282	0.09383	0.94933	0.33033	
chr2	230203425	230203505	7	0.96804	0.9653	0.96907	0.03086	0.96248	0.86637	0.07257	0.98286	0.96029	
chr2	230203429	230203505	6	0.96781	0.9615	0.96778	0.03083	0.96281	0.86717	0.06925	0.98133	0.96067	
chr2	230203437	230203505	5	0.96609	0.9612	0.96903	0.0294	0.96413	0.86796	0.0663	0.9826	0.967	
chr2	231528498	231528554	4	0.95393	0.4043	0.88112	0.96025	0.94933	0.9655	0.87413	0.96975	0.97	
chr2	231528705	231528763	5	0.95826	NaN	0.85583	0.9324	0.94017	0.97588	0.8984	0.9768	0.9668	
chr2	231538674	231538720	6	0.97786	0.9315	0.96739	0.9475	0.94161	0.97323	0.95792	0.98967	1	
chr2	236526320	236526379	5	0.96899	0.9764	0.97277	0.9744	0.94483	0.97884	0.9545	0.995	0.9846	
chr2	237888341	237888348	2	0.90886	0.91	0.95608	0.9485	0.93508	0.9624	0.8685	0.985	0.945	
chr2	237989855	237990094	7	0.94345	0.0131	0.06281	0.92429	0.85745	0.8768	0.91621	0.92643	0.95114	
chr2	237989888	237990094	6	0.9521	0.0113	0.06572	0.92267	0.87853	0.8614	0.91983	0.92033	0.94883	
chr2	237989915	237990094	5	0.95977	0.0086	0.06167	0.9118	0.89093	0.83884	0.9136	0.9118	0.9418	
chr2	237990009	237990094	4	0.97196	0	0.05546	0.904	0.90137	0.81875	0.91587	0.8995	0.93475	
chr2	238067894	238067962	2	0.98164	0.95	0.97708	0.952	0.97833	0.9888	0.9625	0.9925	0.984	
chr2	238422385	238422452	3	0.95994	0.9287	0.95372	0.96	0.95961	0.96998	0.84817	0.97167	0.95267	
chr2	238468820	238468870	3	0.97243	0.9033	0.95717	0.82233	0.95	0.96293	0.6845	0.978	0.17133	

FIG. 6 **(Continued)**

chr2	239292231	239292339	5	0.9564	0.9655	0.89935	0.96308	0.9628	0.9514	0.936	0.9642	0.9692	0.9684	0.9483	0.97223
chr2	240641430	240641494	7	NaN	0.9866	0.96211	0.93829	0.98757	0.9613	0.95629	0.9256	0.9471	0.9457	0.90021	0.9592
chr2	240641725	240641767	5	0.9396	0.9677	0.96358	0.9662	0.9452	0.9494	0.9801	0.9664	0.9588	0.9575	0.8898	0.9702
chr2	241087887	241087984	5	0.943	0.9734	0.97475	0.9626	0.9692	0.9546	0.9667	0.9537	0.9502	0.9528	0.914	0.97187
chr2	241847110	241847170	6	0.96933	0.9877	0.97688	0.9766	0.97633	1	0.97525	0.9816	1	0.9757	0.95008	0.98236
chr3	4804805	4804846	4	1	0.8132	0.97906	0.94645	0.5895	0.1865	0.944	0.9105	0.7375	0.871	0.82363	0.96592
chr3	4804819	4804846	3	1	0.8569	0.97767	0.936	0.59567	0.182	0.94517	0.9275	0.75	0.8728	0.8	0.96328
chr3	9653129	9653166	4	0.9715	0.9698	0.97569	0.9514	0.97575	0.9893	0.87387	0.9546	0.9735	0.9554	0.95913	0.95254
chr3	9653719	9653730	2	0.9575	0.9713	0.96087	0.8669	0.9595	0.979	0.35675	0.9503	0.938	0.9453	0.924	0.86575
chr3	9947411	9947489	6	0.95533	0.9701	0.9715	0.92623	0.9035	0.9315	0.97975	0.9615	0.9808	0.9746	0.965	0.96875
chr3	11136984	11137087	6	0.93567	0.9696	0.97779	0.9797	0.95633	0.94	0.95308	0.9668	0.9473	0.9421	0.92292	0.97169
chr3	11224424	11224474	5	0.931	0.9792	0.91805	0.9168	0.9738	0.982	0.9577	0.9588	0.9626	0.9643	0.9462	0.92913
chr3	12953274	12953323	6	0.87717	0.973	0.97029	0.95073	0.9765	0.9703	0.96917	0.9631	0.9588	0.9716	0.10167	0.96453
chr3	12953284	12953421	10	0.7573	0.9704	0.97252	0.95642	0.9667	0.9593	0.975	0.9701	0.9612	0.9676	0.06875	0.97478
chr3	12953289	12953323	4	0.8795	0.9759	0.97519	0.95785	0.979	0.967	0.98712	0.9633	0.9593	0.9748	0.0765	0.97379
chr3	12953296	12953421	7	0.69871	0.972	0.97175	0.96069	0.95629	0.9546	0.97179	0.9704	0.963	0.9674	0.04714	0.978
chr3	12953320	12953411	5	0.7152	0.9739	0.97325	0.96992	0.9586	0.9408	0.9723	0.9657	0.9686	0.9631	0.0438	0.97993
chr3	12953356	12953421	4	0.6125	0.9689	0.96681	0.9581	0.94425	0.9745	0.9695	0.9831	0.9545	0.9645	0.0445	0.98087
chr3	15276127	15276141	2	0.9775	0.9862	0.97037	0.17338	1	0.953	0.60275	1	1	0.9648	0.94125	0.11013
chr3	15686175	15686214	3	0.947	0.9459	0.94967	0.27387	0.705	0.2307	0.46333	0.9405	0.903	0.9647	0.9505	0.39622
chr3	15731763	15731808	4	0.938	0.9909	0.93988	0.97505	0.98275	0.9565	0.96887	0.1233	0.9693	0.9208	0.96675	0.97296
chr3	17739918	17740038	6	0.95683	0.9817	0.94146	0.94377	0.97833	0.984	0.94158	0.9735	0.9587	0.9719	0.91325	0.95775
chr3	20026945	20027004	5	0.9772	0.9744	0.9688	0.93068	0.9504	0.9518	0.9662	0.9625	0.9488	0.9602	0.962	0.96103
chr3	20049148	20049168	4	0.97725	0.972	0.96119	0.93145	0.9375	0.9325	0.926	0.9125	0.8458	0.9101	0.97587	0.94742
chr3	24330131	24330177	5	NaN	0.9945	0.97305	0.95616	1	0.91	0.9387	0.8844	0.9082	0.9358	0.9488	0.96133
chr3	30608225	30608302	4	0.9655	0.0169	0.02708	0.92465	0.064	0.2798	0.77625	0.1789	0.0053	0.0111	0.92237	0.94071
chr3	30671750	30671755	2	0.9755	0.3858	0.91	0.9703	0.778	0.9695	0.97025	0.9525	0.753	0.9305	0.96275	0.96825
chr3	31677940	31677975	5	1	0.9465	0.97367	0.97926	0.975	NaN	1	0.99	0.975	0.9283	0.964	0.97703
chr3	32952509	32952523	3	0.97033	0.8628	0.9135	0.98353	0.05167	0.0683	0.95167	0.9257	0.641	0.806	0.98217	0.96444
chr3	32953846	32954011	4	0.98375	0.8438	0.95694	0.9508	0.363	0.1755	0.97162	0.9455	0.664	0.9163	0.95	0.969

***FIG. 6* (Continued)**

SUBSTITUTE SHEET (RULE 26)

chr2	239292231	239292339	5	0.9688	0.9664	0.9738	0.0054	0.96663	0.58308	0.2	0.9478	0.9528	
chr2	240641430	240641494	7	0.94849	0.9507	0.9585	0.93986	0.96336	0.98043	0.96057	NaN	0.95586	
chr2	240641725	240641767	5	0.96543	0.9686	0.9602	0.9536	0.95317	0.97428	0.9365	0.9788	0.9576	
chr2	241087887	241087984	5	0.97437	0.9576	0.96147	0.8052	0.9681	0.97372	0.2675	0.9874	0.9832	
chr2	241847110	241847170	6	0.98566	0.9845	0.97758	0.97617	0.95719	0.97973	0.99075	0.96017	0.99117	
chr3	4804805	4804846	4	0.97864	0.7535	0.97671	0.9585	0.97396	0.96789	0.96737	0.97775	0.72725	
chr3	4804819	4804846	3	0.9809	0.738	0.97633	0.959	0.97478	0.9626	0.96717	0.97833	0.73433	
chr3	9653129	9653166	4	0.96979	0.9623	0.96275	0.00225	0.95729	0.18205	0.05675	0.92575	0.9755	
chr3	9653719	9653730	2	0.85036	0.9315	0.96308	0.321	0.92767	0.9091	0.22975	0.9915	0.954	
chr3	9947411	9947489	6	0.96807	0.87	0.94019	0.96117	0.94228	0.97117	0.95	0.9535	0.99183	
chr3	11136984	11137087	6	0.96619	0.9803	0.97033	0.9425	0.97025	0.98033	0.85842	0.96717	0.97583	
chr3	11224424	11224474	5	0.92421	0.936	0.03793	0.971	0.92557	0.96948	0.9626	0.9542	0.9668	
chr3	12953274	12953323	6	0.96776	0.949	0.95683	0.94817	0.96442	0.97403	0.95933	0.9635	0.9785	
chr3	12953284	12953421	10	0.97174	0.9547	0.96592	0.965	0.96658	0.97628	0.961	0.9703	0.9829	
chr3	12953289	12953323	4	0.97246	0.9575	0.95992	0.9615	0.96404	0.9803	0.9645	0.98725	0.9795	
chr3	12953296	12953421	7	0.97263	0.9573	0.96657	0.97357	0.96662	0.97583	0.95486	0.97329	0.97771	
chr3	12953320	12953411	5	0.973	0.9736	0.96963	0.976	0.96647	0.97432	0.9591	0.9658	0.9858	
chr3	12953356	12953421	4	0.97261	0.9513	0.97004	0.97525	0.96921	0.97305	0.96125	0.96275	0.9815	
chr3	15276127	15276141	2	0.1484	1	0.96633	0.6745	0.801	0.9159	0.551	0.983	0.932	
chr3	15686175	15686214	3	0.31752	0.0413	0.611	0.985	0.27144	0.97647	0.9445	0.971	0.84833	
chr3	15731763	15731808	4	0.981	0.9425	0.95054	1	0.97179	0.9677	0.983	0.99225	0.992	
chr3	17739918	17740038	6	0.94243	0.9127	0.96064	NaN	0.95983	0.89327	0.08442	0.98333	0.97933	
chr3	20026945	20027004	5	0.95286	0.1166	0.71527	0.9334	0.9535	0.96708	0.9149	0.9588	0.9516	
chr3	20049148	20049168	4	0.94264	0.9885	0.95779	0	0.93383	0.15837	0.05413	0.97725	0.92175	
chr3	24330131	24330177	5	0.95831	0.9728	0.965	0.9894	0.98097	0.97332	0.8965	0.9778	NaN	
chr3	30608225	30608302	4	0.939	0.9295	0.95354	0	0.93546	0.6495	0.0825	0.961	0.169	
chr3	30671750	30671755	2	0.97993	0.962	0.97433	0.9565	0.969	0.9893	0.945	0.979	0.78	
chr3	31677940	31677975	5	0.96317	0.9714	0.96666	0.972	0.97389	0.99028	1	0.9734	1	
chr3	32952509	32952523	3	0.95786	0.9223	0.96056	0.97067	0.97356	0.97347	0.95417	0.963	0.262	
chr3	32953846	32954011	4	0.96236	0.981	0.95892	0.9525	0.96333	0.9743	0.9165	0.9725	0.39225	

FIG. 6 **(Continued)**

chr3	32953922	32954011	3	0.99467	0.8483	0.957	0.95133	0.37733	0.149	0.97683	0.938	0.69337	0.9088	0.952	0.96689
chr3	32955484	32955526	4	NaN	0.9908	0.95362	0.96701	0.5305	0.4125	0.92875	0.9439	0.8855	0.9648	0.97025	0.96692
chr3	32955843	32955862	3	0.897	0.9046	0.97025	0.91515	0.36633	0.3533	0.9565	0.928	0.7027	0.9582	0.96917	0.94867
chr3	32956693	32956724	2	0.923	0.9425	0.949	0.9339	0.303	0.493	0.9785	0.9118	0.808	0.8815	0.8955	0.96708
chr3	33008055	33008091	3	0.95167	0.5079	0.74775	0.9346	0.39033	0.2297	0.97233	0.8537	0.6603	0.8905	0.78017	0.97178
chr3	33071167	33071234	2	1	0.8382	0.94737	0.9733	0.842	0.243	0.96275	0.9555	0.876	0.9408	0.9535	0.97917
chr3	38280705	38280788	5	0.975	0.9793	0.94455	0.92212	0.9694	0.9886	0.9385	0.9498	0.9516	0.9766	0.9131	0.92767
chr3	39408447	39408661	4	0.981	0.9333	0.87944	0.94025	0.612	0.2188	0.93675	0.8696	0.3185	0.3475	0.93412	0.95621
chr3	42072262	42072401	4	0.02075	0.272	0.28706	0.00685	0.7305	0.848	0.01325	0.185	0.7748	0.8128	0.18413	0.01417
chr3	42663808	42663963	6	0.951	0.9723	0.97058	0.9659	0.95117	0.9465	0.94333	0.9642	0.9253	0.919	0.924	0.97225
chr3	42663832	42663963	5	0.9466	0.9729	0.9714	0.96408	0.9548	0.9644	0.9466	0.9707	0.957	0.9335	0.9305	0.97533
chr3	44927083	44927145	5	0.874	0.9661	0.97705	0.9714	0.9548	0.9802	0.965	0.9675	0.9902	0.9719	0.1323	0.973
chr3	49435048	49435098	3	0.98133	0.9724	0.96592	0.94133	0.95467	0.9673	0.93883	0.9702	0.9733	0.9627	0.94917	0.24661
chr3	49435076	49435098	2	0.972	0.9668	0.97113	0.9578	0.9535	0.951	0.9575	0.9655	0.976	0.944	0.951	0.27033
chr3	49921491	49921626	6	NaN	0.9644	0.95008	0.91693	0.91983	0.981	0.90117	0.342	0.89	0.8838	0.95092	0.95633
chr3	52476377	52476592	8	0.95937	0.9779	0.94547	0.04155	0.94812	0.9585	0.20937	0.9594	0.9753	0.9712	0.92419	0.0159
chr3	52476401	52476589	6	0.9765	0.9837	0.94921	0.04207	0.95417	0.9623	0.20992	0.9653	0.969	0.9768	0.938	0.015
chr3	52476523	52476592	5	0.963	0.9837	0.955	0.0538	0.9496	0.9642	0.216	0.9555	0.9732	0.9722	0.9375	0.0142
chr3	56733053	56733153	4	0.9575	0.966	0.94233	0.9656	0.90225	0.8435	0.915	0.0643	0.7183	0.4448	0.85925	0.96467
chr3	56915357	56915416	4	0.94775	0.8163	0.80633	0.90285	0.213	0.2423	0.94988	0.9125	0.169	0.3076	0.845	0.92871
chr3	57065179	57065229	5	0.9276	0.9739	0.96395	0.82772	0.941	0.9052	0.9055	0.9527	0.9522	0.9336	0.8816	0.82583
chr3	57250892	57250999	8	1	0.9939	0.98409	0.96628	0.96875	NaN	0.99613	0.9568	1	0.9763	0.97375	0.97349
chr3	57250907	57251030	8	0.99225	0.9948	0.98094	0.97253	0.95562	NaN	0.99331	0.9483	0.9868	0.9777	0.97931	0.97014
chr3	58252459	58252507	3	0.794	0.9503	0.89692	0.91487	0.796	0.7007	0.83683	0.0478	0.734	0.155	0.934	0.93189
chr3	58339292	58339420	7	0.97314	0.9704	0.96868	0.95229	0.968	0.9717	0.92614	0.9431	0.965	0.9551	0.94479	0.9514
chr3	58339315	58339420	6	0.972	0.9714	0.97162	0.9551	0.98417	0.9713	0.91992	0.9421	0.9703	0.9543	0.93783	0.94894
chr3	58339353	58339420	5	0.9664	0.9683	0.9692	0.95368	0.981	0.9656	0.9133	0.9382	0.9644	0.9525	0.9373	0.94543
chr3	58842304	58842320	5	0.957	0.9547	0.99333	0.9952	0.8922	0.92	0.9642	0.9923	0.98	0.9882	0.9833	0.9843
chr3	67656073	67656128	5	0	0	0.00615	0.00948	0	0	0.0137	0.0012	0	0	0.0315	0.02273

FIG. 6 (Continued)

chr3	32953922	32954011	3	0.9581	0.9823	0.95861	0.951	0.96283	0.97373	0.91183	0.97433	0.41833	
chr3	32955484	32955526	4	0.9487	NaN	0.94183	0.91	0.94679	0.96793	0.96288	0.955	0.75725	
chr3	32955843	32955862	3	0.95405	0.9373	0.94961	0.963	0.93467	0.9556	0.92817	0.96667	0.43733	
chr3	32956693	32956724	2	0.94514	0.988	0.93708	0.9455	0.9445	0.9437	0.81525	0.959	0.667	
chr3	33008055	33008091	3	0.95295	0.5473	0.95478	0.97467	0.93928	0.9732	0.949	0.99367	NaN	
chr3	33071167	33071234	2	0.97043	0.6005	0.95358	0.992	0.96558	0.973	0.9335	0.963	0.955	
chr3	38280705	38280788	5	0.93943	0.074	0.01577	0.935	0.90773	0.964	0.9537	0.9778	0.9628	
chr3	39408447	39408661	4	0.93825	0.9663	0.94396	0.609	0.94075	0.94675	0.28887	0.969	0.693	
chr3	42072262	42072401	4	0.01068	0.0395	0.00529	0.0425	0.01904	0.00375	0.28025	0	0.5975	
chr3	42663808	42663963	6	0.96929	0.9588	0.97028	0.004	0.94953	0.0212	0.14767	0.13833	0.94783	
chr3	42663832	42663963	5	0.96643	0.9606	0.974	0.0032	0.94563	0.0238	0.1396	0.1444	0.9562	
chr3	44927083	44927145	5	0.98058	0.9028	0.96227	0.9696	0.973	0.98168	0.9556	0.9818	0.9834	
chr3	49435048	49435098	3	0.35457	0.877	0.74956	0.96633	0.93244	0.96873	0.92267	0.98867	0.96567	
chr3	49435076	49435098	2	0.36071	0.848	0.77883	0.965	0.95325	0.9633	0.93125	0.99	0.9725	
chr3	49921491	49921626	6	0.95417	0.9812	0.95356	0.92833	0.96383	0.97047	0.92008	0.9725	0.9635	
chr3	52476377	52476592	8	0.01543	0.7771	0.25665	0.972	0.12344	0.95941	0.929	0.94825	0.96262	
chr3	52476401	52476589	6	0.01631	0.8485	0.28814	0.97533	0.13656	0.96648	0.93525	0.97567	0.9715	
chr3	52476523	52476592	5	0.0172	0.9118	0.3996	0.97	0.1779	0.96882	0.9437	0.9734	0.9658	
chr3	56733053	56733153	4	0.94345	0.9263	0.9455	0.94075	0.93656	0.9631	0.92675	0.97625	0.898	
chr3	56915357	56915416	4	0.91982	0.921	0.89817	0.89275	0.91496	0.9519	0.877	0.9785	0.567	
chr3	57065179	57065229	5	0.8254	0.1924	0.09677	0.9468	0.7869	0.96064	0.9392	0.9658	0.964	
chr3	57250892	57250999	8	0.97005	0.993	0.96804	0.99525	0.99101	0.97344	0.95756	0.98862	0.96175	
chr3	57250907	57251030	8	0.96205	0.9946	0.96977	0.98588	0.98578	0.97269	0.95994	0.973	0.9685	
chr3	58252459	58252507	3	0.93414	0.9857	0.95094	0.869	0.95756	0.9346	0.36067	1	0.90233	
chr3	58339292	58339420	7	0.94788	0.8554	0.94593	0.02643	0.938	0.05826	0.2345	0.93457	0.93457	
chr3	58339315	58339420	6	0.94626	0.8503	0.94772	0.03083	0.93697	0.05476	0.23025	0.92367	0.93017	
chr3	58339353	58339420	5	0.9428	0.8314	0.9423	0.0262	0.93573	0.03599	0.1978	0.917	0.9326	
chr3	58842304	58842320	5	0.9838	1	0.97187	1	0.99143	0.98673	0.9323	0.9866	NaN	
chr3	67656073	67656128	5	0.019	0.0194	0.0002	0	0.0006	0.00056	0.0025	0	0	
chr3	69188612	69188651	6	0.99175	1	0.97819	0.95483	0.96947	0.97963	0.94367	0.97333	0.98333	

FIG. 6 (Continued)

chr3	69848994	69849059	6	1	0.9888	0.98113	0.9497	0.9695	0.9833	0.94408	0.9367	0.8583	0.9028	0.98167	0.94964	
chr3	89351475	89351507	6	0.98917	0.9662	0.97708	0.93933	0.93317	0.9435	0.963	0.9648	0.9352	0.9893	0.83258	0.97603	
chr3	98586273	98586310	2	1	1	0.96662	0.7726	0.98	0.9145	0.33525	0.9573	0.8715	0.9865	0.894	0.84917	
chr3	108017776	108017785	2	0.9705	0.9908	0.96125	0.27035	0.9455	0.967	0.3325	0.9413	0.887	0.909	0.91825	0.88167	
chr3	111544229	111544291	3	0.916	0.7677	0.46217	0.9492	0.71833	0.526	0.915	0.4097	0.411	0.1777	0.94967	0.95078	
chr3	119311116	119311125	2	0.949	0.9848	0.94625	0.7621	1	0.9705	0.27775	0.9138	0.988	0.9385	0.8315	0.80867	
chr3	119551998	119552216	5	0.9548	0.9617	0.96015	0.95932	0.9734	0.9438	0.9639	0.9633	0.9414	0.9491	0.9446	0.97333	
chr3	120076681	120076747	6	0.97917	0.9908	0.981	0.95207	NaN	0.9577	1	0.9779	1	0.9832	0.96533	0.95222	
chr3	125100928	125100971	5	1	1	0.9628	0.96668	1	1	1	1	1	1	1	0.99	
chr3	125118728	125118796	4	0.96875	0.9505	0.94288	0.96155	NaN	0.9868	0.89538	0.0051	0.932	0.821	0.97362	0.9745	
chr3	125271348	125271391	4	0.96625	0.9788	0.95812	0.44967	0.97575	0.9645	0.70537	0.9754	0.9408	0.9854	0.969	0.89471	
chr3	125271375	125271391	3	0.97967	0.977	0.95692	0.42056	0.981	0.966	0.67483	0.97	0.9343	0.987	0.98217	0.88939	
chr3	126456951	126457097	5	0.9532	0.9893	0.983	0.93448	0.9574	NaN	0.9456	0.9495	0.9644	0.9649	0.9206	0.9502	
chr3	126620943	126620953	2	0.9065	0.9665	0.96162	NaN	0.9545	0.965	NaN	0.953	0.97	0.974	0.947	NaN	
chr3	127044822	127044890	6	0.93267	0.9625	0.97717	0.9576	0.95817	0.9557	0.949	0.9574	0.9683	0.9221	0.91875	0.96386	
chr3	127044826	127044890	5	0.9192	0.955	0.97645	0.96312	0.9498	0.9468	0.9499	0.9489	0.9774	0.9208	0.9025	0.96063	
chr3	128598718	128598806	5	0.9728	0.9556	0.96105	0.93672	0.9714	0.9578	0.9651	0.9602	0.9492	0.9656	0.9287	0.9534	
chr3	128765163	128765208	5	0.9642	0.9573	0.92615	0.8886	0.94	0.9284	0.8066	0.1398	0.9624	0.8934	0.957	0.936	
chr3	128765192	128765208	4	0.96375	0.9598	0.92044	0.88315	0.93	0.9273	0.813	0.1241	0.9678	0.884	0.9565	0.9395	
chr3	130069318	130069329	2	NaN	0.9762	0.96875	1	0.9545	1	1	0.9543	0.55	0.857	0.9545	0.9435	
chr3	138572023	138572069	3	0.94233	0.7903	0.85958	0.9302	0.06567	0.1063	0.9485	0.69	0.1197	0.1353	0.87317	0.96844	
chr3	141379602	141379635	4	0.945	0.8072	0.861	0.9305	0.105	0.1223	0.90625	0.2289	0.0285	0.0469	0.96762	0.96658	
chr3	151616024	151616035	2	NaN	1	1	1	0.55	0.9165	0.96425	0.9225	1	0.8583	0.9	0.97378	
chr3	157148403	157148511	3	0.97133	0.8941	0.89467	0.94787	NaN	0.0927	0.9845	0.8893	NaN	0.2458	0.95367	0.97289	
chr3	158443289	158443331	3	0.981	0.8266	0.94533	0.93773	0.51	0.2107	0.9815	0.9408	0.6943	0.9163	0.93117	0.97056	
chr3	161159522	161159603	8	NaN	0.994	0.96997	0.9803	1	1	0.96956	0.9696	0.9844	0.9452	0.94956	0.98276	
chr3	169931840	169931863	4	0.9595	0.9727	0.94838	0.9537	0.96775	0.972	0.9095	0.9403	0.9315	0.944	0.9125	0.94654	
chr3	169951486	169951526	5	0.9692	0.9861	0.989	0.97168	0.9582	0.9246	0.9719	0.9782	0.9926	0.9292	0.9798	0.96907	
chr3	170055719	170055826	5	0.9184	0.9722	0.95195	0.93977	0.9142	0.917	0.9579	0.9501	0.9144	0.9254	0.9024	0.95953	
chr3	172699196	172699278	3	0.93067	0.9647	0.95908	NaN	0.884	0.9597	NaN	0.9602	0.938	0.9358	0.96233	0.039	

FIG. 6 **(Continued)**

chr3	69848994	69849059	6	0.97343	0.9352	0.93514	0.89283	0.94942	0.95333	0.88408	0.932	0.9255	
chr3	89351475	89351507	6	0.96505	1	0.95798	0.93617	0.91364	0.97237	0.84658	0.9355	1	
chr3	98586273	98586310	2	0.81821	1	0.94942	0.9525	0.78375	0.9782	0.95	0.96	0.9575	
chr3	108017776	108017785	2	0.87157	0.962	0.97583	0.939	0.97042	0.9782	0.98025	0.979	0.84	
chr3	111544229	111544291	3	0.95271	0.9177	0.96272	0.978	0.93372	0.96247	0.93833	0.95833	0.78467	
chr3	119311116	119311125	2	0.79929	0.881	0.0481	0.983	0.71217	0.9776	0.8405	0.967	0.9485	
chr3	119551998	119552216	5	0.96846	0.9552	0.9601	0.941	0.97173	0.9644	0.201	0.9872	0.927	
chr3	120076747	120076681	6	0.99602	NaN	0.98467	1	0.95609	0.96231	0.97417	0.98183	1	
chr3	125100928	125100971	5	0.982	1	0.96687	0.9526	0.9762	0.97064	0.9857	1	0.9778	
chr3	125118728	125118796	4	0.96205	0.992	0.962	0.93625	0.96825	0.9353	0.93175	0.93625	0.9775	
chr3	125271348	125271391	4	0.86068	0.9705	0.92817	0.9595	0.95858	0.97305	0.95988	0.974	0.96525	
chr3	125271375	125271391	3	0.84633	0.968	0.92506	0.97233	0.95961	0.973	0.97217	0.97767	0.96933	
chr3	126456951	126457097	5	0.94943	0.0672	0.35593	0.9706	0.915	0.9724	0.9206	0.9778	0.9694	
chr3	126620943	126620953	2	0.4725	0.924	0.90667	0.971	0.92358	0.9656	0.94525	0.9595	0.9905	
chr3	127044822	127044890	6	0.95831	NaN	0.93736	0.94	0.93377	0.96173	0.85675	0.92383	0.96917	
chr3	127044826	127044890	5	0.95735	NaN	0.94107	0.928	0.92837	0.96408	0.834	0.9086	0.9852	
chr3	128598718	128598806	5	0.95271	0.093	0.94573	0.96	0.95927	0.9822	0.9154	0.9636	0.9626	
chr3	128765163	128765208	5	0.93251	0.8926	0.8954	0.96	0.94473	0.96824	0.9226	0.9712	0.967	
chr3	128765192	128765208	4	0.93521	0.885	0.901	0.965	0.94554	0.9666	0.9135	0.974	0.96575	
chr3	130069318	130069329	2	0.9909	NaN	0.98475	1	0.9587	0.96338	0.934	1	1	
chr3	138572023	138572069	3	0.95676	0.967	0.93344	0.335	0.94728	0.9076	0.1255	0.97033	0.13467	
chr3	141379602	141379635	4	0.95871	0.9543	0.96596	0.0545	0.95679	0.8199	0.09088	0.8475	0.0265	
chr3	151616024	151616035	2	0.96942	NaN	0.96992	1	0.93933	0.98	0.87525	1	0.9	
chr3	157148403	157148511	3	0.96948	0.9647	0.96667	0.40233	0.96011	0.93607	0.121	0.987	0.39933	
chr3	158443289	158443331	3	0.959	0.9573	0.97161	0.984	0.96311	0.97333	0.9455	0.979	0.739	
chr3	161159522	161159603	8	0.96851	0.9815	0.98308	0.97913	0.9513	0.98998	0.95456	0.9815	0.98913	
chr3	169931840	169931863	4	0.95649	0.9278	0.95346	NaN	0.96833	0.062	0.10812	0.9915	0.97275	
chr3	169951486	169951526	5	0.95894	0.9798	0.97	0.9912	0.9695	0.94988	0.9791	0.986	0.914	
chr3	170055719	170055826	5	0.94211	0.936	0.93837	0.1454	0.94493	0.89756	0.0737	0.9544	0.9594	
chr3	172699196	172699278	3	0.07053	0.7713	0.86661	0.95167	0.84678	0.9596	0.886	0.99633	0.952	

FIG. 6 **(Continued)**

chr3	177247545	177247649	9	0.98444	0.9731	0.97839	0.96536	0.96989	0.9606	0.95733	0.9641	0.9623	0.9802	0.947	0.96843		
chr3	177247547	177247649	8	0.9845	0.9718	0.97797	0.96503	0.96612	0.9556	0.95794	0.9629	0.9615	0.9798	0.94431	0.96796		
chr3	177247585	177247649	6	0.99033	0.9709	0.98	0.9673	0.96367	0.9502	0.96183	0.9638	0.9597	0.9757	0.94008	0.96756		
chr3	177247767	177247878	6	0.96933	0.9709	0.96479	0.9632	0.961	0.967	0.96358	0.9503	0.9692	0.9508	0.9305	0.95875		
chr3	177247774	177247878	5	0.976	0.9706	0.96805	0.96316	0.9532	0.966	0.968	0.9564	0.963	0.948	0.9368	0.9613		
chr3	177624536	177624560	2	0.987	0.9728	0.95975	0.9574	0.9195	0.988	0.98625	0.9603	0.8585	0.9718	0.8735	0.97667		
chr3	179844553	179844558	2	0.9165	0.969	0.965	0.9277	0.962	0.3295	0.9225	0.954	0.7945	0.9085	0.9215	0.95183		
chr3	180376013	180376019	2	NaN	0.8473	0.81467	0.8736	1	0.8285	0.97225	0.8665	1	0.8023	1	0.97917		
chr3	182458343	182458387	5	0.992	0.982	0.97152	0.94948	0.9226	0.9484	0.9947	0.9454	0.935	0.9666	0.9768	0.94123		
chr3	182957396	182957578	5	0.8866	0.9775	0.97175	0.93662	0.9482	0.9634	0.9578	0.9696	0.9612	0.9669	0.1381	0.97323		
chr3	182957498	182957578	3	0.922	0.9764	0.96908	0.94677	0.93833	0.953	0.956	0.9802	0.9673	0.9693	0.1225	0.97222		
chr3	183485131	183485319	4	0.96675	0.977	0.97188	0.9332	0.966	0.936	0.96737	0.9433	0.9778	0.9589	0.94738	0.96433		
chr3	183780378	183780424	4	0.33475	0.9644	0.96575	0.0097	0.961	0.9563	0.15112	0.9308	0.9718	0.9681	0.38912	0.03679		
chr3	183784694	183784745	5	0.938	0.965	0.9283	0.00952	0.9668	0.972	0.2796	0.9643	0.9774	0.958	0.9798	0.01937		
chr3	184004500	184004662	2	NaN	0.9465	0.95596	0.0167	1	0.9505	0.70725	0.8825	1	0.8533	0.9075	0.0314		
chr3	185298971	185298995	2	NaN	0.9583	0.94863	0	0.8035	1	NaN	0.892	0.575	NaN	0.939	0.32		
chr3	185689783	185689838	5	1	0.9896	0.97232	0.96835	NaN	0.9764	0.99	0.9794	0.991	0.9931	0.9909	0.97067		
chr3	187799048	187799083	3	0.98733	0.8522	0.55475	0.95927	0.74133	0.326	0.92617	0.0393	0.585	0.1003	0.80017	0.98356		
chr3	188239135	188239241	4	0.9635	0.9774	0.95825	0.93099	0.974	0.97	0.9765	0.9548	0.9718	0.9394	0.90975	0.96733		
chr3	188296120	188296133	2	1	0.9952	0.96788	0.797	0.984	1	0.35375	0.9755	0.99	0.9818	0.9075	0.95317		
chr3	194592044	194592088	5	0.9376	0.9606	0.9757	0.98972	0.9818	0.934	0.9492	0.9506	0.9924	0.9626	0.9411	0.96977		
chr3	195183494	195183517	3	0.98167	0.9407	0.96111	0.98007	0.39133	0.3937	0.97517	0.9712	0.62	0.9597	0.96167	0.97361		
chr3	196220169	196220257	6	0.99167	0.9741	0.95775	0.88583	0.96867	0.9618	0.89733	0.9393	0.9665	0.9562	0.93592	0.89628		
chr3	196220190	196220265	6	0.986	0.9759	0.95588	0.88723	0.96767	0.9815	0.89608	0.9438	0.9618	0.9578	0.93333	0.88806		
chr3	196235589	196235634	6	0.9555	0.9753	0.95175	0.9587	0.9635	0.9797	0.96858	0.9378	0.9743	0.9686	0.93308	0.97533		
chr3	196563850	196563857	2	0.966	0.9012	0.94512	0.9283	NaN	0.69	0.91675	0.9393	0.2715	0.874	0.9405	0.9365		
chr3	196625209	196625275	5	0.9484	0.9761	0.9378	0.02232	0.9618	0.9798	0.1386	0.9576	0.9686	0.9706	0.95	0.0124		
chr3	196742808	196742916	11	0.97418	0.9427	0.9418	0.93447	0.84418	0.9661	0.89745	0.8747	0.8461	0.9273	0.96441	0.95953		
chr3	196742822	196742846	3	0.986	0.9683	0.94933	0.95707	0.85467	0.9707	0.8935	0.901	0.8677	0.9338	0.96283	0.964		
chr3	196742867	196742916	6	0.971	0.9272	0.94504	0.9193	0.823	0.9623	0.88392	0.8547	0.8328	0.9248	0.96883	0.95433		

FIG. 6 (Continued)

chr3	177247545	177247649	9	0.96678	0.9792	0.96178	NaN	0.97272	0.8754	0.05767	0.98633	0.96856	
chr3	177247547	177247649	8	0.96582	0.9795	0.96187	NaN	0.97306	0.8787	0.05656	0.98662	0.96462	
chr3	177247585	177247649	6	0.96521	0.9802	0.96306	NaN	0.97442	0.8814	0.05358	0.99067	0.95767	
chr3	177247767	177247878	6	0.96031	NaN	0.97206	0.04333	0.94828	0.9044	0.05625	0.96517	0.95533	
chr3	177247774	177247878	5	0.95663	NaN	0.9712	0.0398	0.9431	0.90868	0.0621	0.9696	0.952	
chr3	177624536	177624560	2	0.98557	0.9825	0.97217	0.9575	0.97483	0.9505	0.7415	0.9575	0.508	
chr3	179844553	179844558	2	0.94829	0.898	0.94983	0.9725	0.95467	0.9624	0.94625	0.964	0.895	
chr3	180376013	180376019	2	0.7444	0.75	0.88642	0.8	0.88342	0.97713	0.853	0.9525	0.9285	
chr3	182458343	182458387	5	0.97751	0.9934	0.96693	0.9818	0.96545	0.97936	0.9503	0.979	0.95	
chr3	182957396	182957578	5	0.96474	0.9418	0.97137	0.9628	0.9627	0.97296	0.9625	0.9728	0.958	
chr3	182957498	182957578	3	0.96052	0.9593	0.96956	0.96633	0.96989	0.97747	0.9725	0.97633	0.94867	
chr3	183485131	183485319	4	0.96171	0.9623	0.97637	0.83675	0.96842	0.95615	0.1555	0.98225	0.96525	
chr3	183780378	183780424	4	0.01682	0.0065	0.01342	0.9685	0.04096	0.97095	0.95625	0.97	0.974	
chr3	183784694	183784745	5	0.02203	0.0174	0.00733	0.9714	0.01917	0.96004	0.9066	0.9726	0.9772	
chr3	184004500	184004662	2	0.02773	0.828	0.94208	0.8365	0.90992	0.9655	0.879	0.9785	0.9615	
chr3	185298971	185298995	2	0	0.75	0.1048	NaN	0.04667	0.9454	0.1595	0.969	1	
chr3	185689783	185689838	5	0.9472	0.956	0.98233	0.9826	0.96061	0.97133	0.9497	0.9802	0.9928	
chr3	187799048	187799083	3	0.96114	0.9253	0.96783	0.96	0.9765	0.9762	0.90117	0.98167	0.703	
chr3	188239135	188239241	4	0.9665	0.9648	0.96529	0.011	0.96353	0.1169	0.16675	0.96375	0.96175	
chr3	188296120	188296133	2	0.94843	0.953	0.83483	0.973	0.94192	0.9825	0.95175	0.989	0.939	
chr3	194592044	194592088	5	0.96214	0.96	0.96207	0.9728	0.98617	0.96908	0.9766	0.9914	0.975	
chr3	195183494	195183517	3	0.97405	0.9637	0.97028	0.98633	0.96761	0.96513	0.962	0.97233	0.292	
chr3	196220169	196220257	6	0.89221	NaN	0.10396	0.972	0.85039	0.96733	0.96108	0.97733	0.99	
chr3	196220190	196220265	6	0.88914	NaN	0.09948	0.9685	0.84267	0.96543	0.96	0.96617	0.99	
chr3	196235589	196235634	6	0.96883	0.119	0.82661	0.97433	0.95947	0.96843	0.95492	0.96433	0.9745	
chr3	196563850	196563857	2	0.91079	0.887	0.94833	0.9355	0.94525	0.9552	0.8235	0.9725	NaN	
chr3	196625209	196625275	5	0.00629	0.1748	0.00913	0.9684	0.02173	0.95588	0.9564	0.9108	0.9742	
chr3	196742808	196742916	11	0.94448	0.9633	0.9632	0.95709	0.95555	0.97275	0.92418	0.97209	0.33027	
chr3	196742822	196742846	3	0.946	0.9557	0.95811	0.95633	0.96133	0.97243	0.90667	0.974	0.31933	
chr3	196742867	196742916	6	0.94095	0.9635	0.96503	0.95933	0.95236	0.96997	0.92583	0.97417	0.30883	

FIG. 6 (Continued)

chr3	196742889	196742908	2	0.961	0.9515	0.97262	0.9143	0.8695	0.9525	0.88825	0.8635	0.8425	0.92	0.96875	0.96333
chr3	197018209	197018218	2	0.956	0.9653	0.956	0.9394	0.5075	0.8615	0.96725	0.9135	0.881	0.9138	0.9395	0.93992
chr3	197934308	197934475	5	0.9924	0.951	0.8924	0.87919	0.3508	0.2182	0.912	0.7944	0.238	0.1439	0.893	0.91337
chr3	197934479	197934583	4	0.948	0.936	0.87281	0.94265	0.13975	0.1705	0.939	0.7623	0.0688	0.0953	0.88038	0.95296
chr3	197934487	197934583	3	0.943	0.9303	0.86375	0.94393	0.14567	0.144	0.9385	0.7478	0.057	0.0848	0.86417	0.94856
chr3	198219287	198219330	5	0.9324	0.9875	0.9586	0.97882	0.9882	0.975	0.9686	0.9374	0.9716	0.9722	0.9645	0.9787
chr4	970634	970647	2	0.938	0.9178	0.20117	0.8944	0.8715	0.844	0.7915	0.039	0.7985	0.1315	0.9525	0.9085
chr4	1279120	1279175	5	0.9416	0.9647	0.983	0.97846	0.953	0.9722	0.962	0.9745	0.9314	0.8689	0.9343	0.97479
chr4	1333392	1333505	5	0.9428	0.9665	0.9318	0.05612	0.9642	0.9846	0.2232	0.9611	0.9956	0.97	0.9567	0.04503
chr4	2696413	2696659	13	0.97362	0.9749	0.96369	0.95491	0.97485	0.9629	0.93912	0.9502	0.9462	0.967	0.96315	0.97037
chr4	2696419	2696535	5	0.9822	0.974	0.96565	0.95756	0.9806	0.9436	0.931	0.9635	0.9322	0.9748	0.9667	0.96617
chr4	2696481	2696659	11	0.97655	0.9743	0.95993	0.95145	0.97218	0.9632	0.94286	0.9479	0.9487	0.9694	0.963	0.96755
chr4	2696494	2696659	9	0.97544	0.9737	0.9595	0.9518	0.97056	0.9704	0.94489	0.9434	0.9506	0.9646	0.96283	0.96819
chr4	2696532	2696659	8	0.97237	0.9721	0.95809	0.95	0.96838	0.97	0.94994	0.9424	0.9504	0.9646	0.96306	0.96879
chr4	2696555	2696659	7	0.97243	0.9719	0.95825	0.95071	0.96714	0.9767	0.9505	0.9379	0.9566	0.9617	0.962	0.96914
chr4	2696557	2696659	6	0.97083	0.9726	0.95879	0.94943	0.96683	0.9728	0.9525	0.9355	0.9645	0.9624	0.96658	0.97208
chr4	2696564	2696659	5	0.9702	0.9736	0.96135	0.95224	0.964	0.9674	0.9551	0.9324	0.9708	0.9658	0.963	0.9725
chr4	2770609	2770653	3	0.95233	0.9644	0.95383	0.2345	0.86267	0.9437	0.24033	0.9572	0.8577	0.9523	0.80933	0.55222
chr4	2796190	2796217	3	0.953	0.9623	0.97225	0.94187	0.858	0.9493	0.9585	0.906	0.841	0.8963	0.90033	0.57861
chr4	2944290	2944313	2	0.9735	0.9738	0.95537	0.95	0.7775	0.211	0.9325	0.9063	0.953	0.807	0.95625	0.96967
chr4	2944685	2944698	2	0.9225	0.9193	0.94675	0.3898	0.9045	0.774	0.7035	0.9015	0.9465	0.8968	0.90975	0.85792
chr4	3091609	3091627	2	1	0.839	0.96229	0.9231	0.9	0.881	0.95775	0.9463	0.78	0.941	0.85475	0.98392
chr4	3257680	3257740	5	0.9574	0.968	0.98045	0.94344	0.9844	0.9406	0.9488	0.9157	0.9538	0.9524	0.9475	0.96683
chr4	3509453	3509487	5	0.961	0.9751	0.9801	0.9552	0.976	0.9656	0.9801	0.9627	0.9702	0.9692	0.951	0.97643
chr4	4455570	4455757	5	0.9718	0.9813	0.97585	0.96452	0.9584	0.9676	0.9513	0.9593	0.9604	0.9628	0.9403	0.96487
chr4	6304080	6304122	3	0.89767	0.9631	0.84967	0.91787	0.86533	0.834	0.83467	0.2367	0.7853	0.291	0.89467	0.93189
chr4	6609207	6609261	5	0.9614	0.9625	0.87285	0.94552	0.9478	0.8806	0.9381	0.6769	0.7802	0.4419	0.9484	0.94153
chr4	6944372	6944381	2	0.9715	0.9625	0.97662	0.564	0.9245	0.9375	0.45075	0.9208	0.906	0.957	0.965	0.05275
chr4	7792908	7792933	4	0.935	0.9833	0.96925	0.95185	0.87425	0.9288	0.96475	0.9689	0.8975	0.9651	0.90563	0.97088
chr4	8172398	8172423	4	0.9325	0.8958	0.88587	0.8885	0.376	0.2675	0.82888	0.8986	0.5108	0.5664	0.86563	0.92583

***FIG. 6* (Continued)**

SUBSTITUTE SHEET (RULE 26)

chr3	196742889	196742908	2	0.94336	0.9785	0.971	0.975	0.95275	0.9839	0.9645	0.979	0.284
chr3	197018209	197018218	2	0.95136	0.9265	0.93808	0.9215	0.94558	0.9624	0.85875	0.9465	0.9395
chr3	197934308	197934475	5	0.91549	0.7932	0.90537	NaN	0.8911	0.8966	0.0448	0.9516	0.714
chr3	197934479	197934583	4	0.94307	0.9133	0.95367	0.179	0.95054	0.8919	0.04388	0.97525	0.54975
chr3	197934487	197934583	3	0.93738	0.899	0.945	0.174	0.94867	0.89213	0.05283	0.986	0.54067
chr3	198219287	198219330	5	0.97614	0.973	0.96437	0.9774	0.96497	0.96808	0.978	0.9548	0.9786
chr4	970634	970647	2	0.89014	0.803	0.88092	0.931	0.89308	0.9598	0.871	0.9505	0.957
chr4	1279120	1279175	5	0.97358	0.9632	0.97795	0.9418	0.96755	0.95852	0.8682	0.9878	0.9558
chr4	1333392	1333505	5	0.04231	0.931	0.54823	0.9428	0.02697	0.92224	0.9059	0.8972	0.9682
chr4	2696413	2696659	13	0.9671	0.9487	0.96485	NaN	0.96217	0.01064	0.04504	0.017	0.96777
chr4	2696419	2696535	5	0.9628	0.9134	0.9613	NaN	0.94597	0.00818	0.0574	0.0084	0.9784
chr4	2696481	2696659	11	0.96727	0.9556	0.96608	NaN	0.96122	0.01257	0.03386	0.017	0.96191
chr4	2696494	2696659	9	0.96719	0.9652	0.96509	NaN	0.96612	0.01384	0.03561	0.020778	0.958
chr4	2696532	2696659	8	0.9673	0.9665	0.96633	0.00425	0.96763	0.01558	0.03294	0.02225	0.95713
chr4	2696555	2696659	7	0.96918	0.9666	0.9679	0.00414	0.9716	0.01391	0.03107	0.023	0.95557
chr4	2696557	2696659	6	0.97274	0.9662	0.96736	0.004	0.97381	0.01273	0.03108	0.021167	0.95283
chr4	2696564	2696659	5	0.97357	0.9638	0.96777	0.0038	0.97267	0.01112	0.0322	0.0186	0.9492
chr4	2770609	2770653	3	0.29312	0.863	0.55422	0.93667	0.37994	0.89873	0.80317	0.85533	0.92333
chr4	2796190	2796217	3	0.86648	0.864	0.7915	0.798	0.86017	0.93913	0.6725	0.98367	0.935
chr4	2944290	2944313	2	0.96936	0.7745	0.95175	0.9255	0.96567	0.9613	0.839	0.9685	0.906
chr4	2944685	2944698	2	0.79979	0.044	0.87442	0.9475	0.91458	0.9615	0.91825	0.987	0.9445
chr4	3091609	3091627	2	0.973	1	0.94217	1	0.96967	0.9711	0.8195	0.953	0.297
chr4	3257680	3257740	5	0.96034	0.9498	0.9541	NaN	0.9367	0.83136	0.1066	0.9728	0.9742
chr4	3509453	3509487	5	0.96737	0.9718	0.97167	0.9796	0.9789	0.97044	0.9691	0.9856	0.9826
chr4	4455570	4455757	5	0.96797	0.9508	0.958	0.1638	0.96533	0.90832	0.1552	0.9528	0.9316
chr4	6304080	6304122	3	0.94276	0.852	0.82039	0.91633	0.91967	0.97273	0.8325	0.98967	0.92667
chr4	6609207	6609261	5	0.95397	0.9148	0.94093	0.9478	0.9355	0.9522	0.8777	0.9488	0.9484
chr4	6944372	6944381	2	0.077	0.9135	0.93942	0.9405	0.79317	0.9692	0.86225	0.99	0.937
chr4	7792908	7792933	4	0.95593	0.9573	0.95833	0.08425	0.9675	0.9406	0.18688	0.9655	0.8515
chr4	8172398	8172423	4	0.93914	0.9505	0.94604	0.00825	0.93675	0.1333	0.00963	0.93425	0.39275

FIG. 6 **(Continued)**

chr4	9214338	9214447	5	0.95	0.9347	0.97445	0.96428	0.9676	0.9726	0.9427	0.9565	0.956	0.9513	0.9816	0.96147
chr4	9217575	9217656	7	0.96614	0.975	0.96336	0.94954	0.987	0.9639	0.96657	0.9729	0.9327	0.9346	0.94757	0.96802
chr4	9217615	9217656	5	0.9692	0.9747	0.9833	0.95836	1	0.99	0.9678	0.9955	0.9604	0.975	0.9752	0.97253
chr4	12115465	12115484	5	NaN	0.9871	0.9408	0.9754	0.9562	0.8954	0.99	0.9428	0.9818	0.9355	0.952	0.9685
chr4	14944970	14945026	5	0.934	0.9635	0.97735	0.9746	0.9764	0.9682	0.9619	0.9732	NaN	0.9763	0.9556	0.95663
chr4	26731742	26731755	3	0.988	0.9047	0.89733	0.908	0.06633	0.0587	0.81267	0.8563	0.125	0.1773	0.949	0.92356
chr4	30065114	30065137	2	1	0.9722	0.93812	0.8843	1	0.9545	0.9415	0.924	0.55	0.9045	0.92225	0.90325
chr4	36879959	36879978	5	1	1	0.98035	0.913	1	0.9056	0.98	0.9818	0.98	1	0.9142	0.96023
chr4	37671672	37671678	2	1	0.9707	0.97437	0.9422	0.9575	0.9165	0.519	0.932	1	0.957	0.96525	0.93167
chr4	38329024	38329048	3	0.95433	0.0994	0.1605	0.93433	0.47933	0.793	0.92417	0.9067	0.7843	0.8977	0.84333	0.9605
chr4	38608914	38608980	6	0.99017	0.9851	0.9585	0.97264	0.93767	NaN	0.97533	0.9714	0.9412	0.9249	0.97467	0.96014
chr4	39631159	39631288	5	1	0.9655	0.95263	0.96112	0.9354	0.961	0.9415	0.936	0.9268	0.9317	0.9114	0.95637
chr4	39631582	39631647	5	0.9506	0.9531	0.9844	0.95536	0.9496	0.9834	0.91	0.9824	0.9744	0.9432	0.9123	0.9482
chr4	39712357	39712364	2	NaN	0.84	0.79483	0.8112	1	0.859	0.6955	0.8333	0.916	0.8705	0.83325	0.63825
chr4	40375139	40375196	5	0.9652	0.9775	0.96415	0.91068	0.9792	0.9414	0.9394	0.9582	0.9302	0.9607	0.8919	0.93277
chr4	40649021	40649041	2	0.9445	0.9673	0.95837	0.7151	0.909	0.9895	0.3575	0.952	0.9105	0.9715	0.91025	0.056
chr4	48114259	48114350	4	0.97825	0.9778	0.89525	0.94455	0.94925	0.9853	0.90813	0.0851	0.9468	0.8221	0.90587	0.95254
chr4	48138706	48138731	3	0.99233	0.8357	0.224	0.95147	0.79833	0.8037	0.9775	0.8388	0.7723	0.8478	0.97517	0.97961
chr4	53328868	53328915	7	0.96629	0.982	0.94714	0.92466	0.96943	0.9881	0.98964	0.9311	1	0.9846	0.951	0.96721
chr4	55447354	55447360	2	0.8725	0.9553	0.91425	0.1738	0.8665	0.8975	0.794	0.892	0.9455	0.927	0.9145	0.482
chr4	56736854	56736913	6	0.87433	0.9812	0.97933	0.9704	0.9745	0.9722	0.95967	0.9693	0.9762	0.9828	0.98817	0.98688
chr4	75474469	75474566	5	0.9666	0.9681	0.9463	0.85508	0.9686	0.9852	0.922	0.9671	0.9518	0.9558	0.8821	0.89633
chr4	77421443	77421499	5	0.9646	0.9713	0.9718	0.97616	0.9618	0.96	0.9653	0.9796	0.9506	0.9713	0.8968	0.96732
chr4	77944296	77944469	3	0.971	0.6486	0.85325	0.95867	0.68133	0.327	0.965	0.9477	0.7913	0.9408	0.93533	0.98033
chr4	87499753	87499807	4	0.9675	0.9413	0.87513	0.9455	0.30825	0.1608	0.966	0.7938	0.1313	0.0859	0.86962	0.95121
chr4	101017180	101017261	4	0.97	0.9116	0.89094	0.94645	0.3115	0.098	0.94175	0.7515	0.2373	0.3528	0.94425	0.96596
chr4	101017221	101017273	5	0.9672	0.8707	0.8832	0.955	NaN	0.0406	0.9407	0.7248	0.2066	0.2813	0.9494	0.96947
chr4	105095494	105095507	2	NaN	1	0.93383	0.65212	1	0.95	0.4165	1	NaN	0.95	0.8335	0.46775
chr4	106204833	106204892	5	NaN	0.9697	0.9312	0.96704	0.9314	0.9704	0.9506	0.8994	0.9418	0.8975	0.9833	0.95627
chr4	108556901	108557344	6	0.97317	0.9748	0.96787	0.9074	0.9785	0.9577	0.93025	0.8688	0.9485	0.9188	0.87892	0.93336

***FIG. 6* (Continued)**

SUBSTITUTE SHEET (RULE 26)

chr4	9214338	9214447	5	0.97714	0.9606	0.9648	0.9742	0.962	0.97052	0.9218	0.979	0.9736
chr4	9217575	9217656	7	0.96688	0.928	0.96029	0.94186	0.94064	0.96857	0.90471	0.95614	0.99357
chr4	9217615	9217656	5	0.97729	0.9354	0.97197	0.9706	0.96887	0.97268	0.9096	0.961	1
chr4	12115465	12115484	5	0.9734	1	0.96363	0.9578	0.97667	0.97304	0.8875	0.9218	0.96
chr4	14944970	14945026	5	0.93694	NaN	0.97686	0.9368	0.96457	0.97904	0.9391	0.9948	1
chr4	26731742	26731755	3	0.92457	0.955	0.80472	0.42833	0.9095	0.9618	0.0795	0.97733	0.242
chr4	30065114	30065137	2	0.91957	0.7755	0.94058	0.778	0.90925	0.9444	0.80875	0.9585	0.903
chr4	36879959	36879978	5	0.97331	0.9714	0.95181	0.8906	0.97595	0.98812	0.9909	0.9218	1
chr4	37671672	37671678	2	0.94114	0.9375	0.96817	0.94	0.95708	0.9855	0.8465	1	0.8375
chr4	38329024	38329048	3	0.9551	0.9203	0.94594	0.97833	0.93244	0.96373	0.95983	0.97933	0.48867
chr4	38608914	38608980	6	0.97448	0.9325	0.94861	0.89	0.95969	0.96304	0.92958	0.97683	0.977
chr4	39631159	39631288	5	0.9493	0.9122	0.96007	NaN	0.9626	0.02615	0.2607	0.347	0.9464
chr4	39631582	39631647	5	0.96373	NaN	0.95267	0.0796	0.93623	0.13492	0.1466	0.952	0.9674
chr4	39712357	39712364	2	0.89075	0.929	0.87475	NaN	0.79923	0.86163	0.872	0.972	0.6615
chr4	40375139	40375196	5	0.92391	0.8712	0.13497	0.931	0.88807	0.95236	0.9351	0.9612	0.9762
chr4	40649021	40649041	2	0.11186	0.9575	0.96533	0.978	0.84525	0.9837	0.88375	0.965	0.97
chr4	48114259	48114350	4	0.9615	0.965	0.94975	0.954	0.95121	0.97775	0.90037	0.977	0.9465
chr4	48138706	48138731	3	0.97071	0.953	0.97311	0.94967	0.97178	0.97853	0.968	0.996	0.54267
chr4	53328868	53328915	7	0.9601	0.9619	0.9682	0.978	0.96964	0.96203	0.98136	0.992	1
chr4	55447354	55447360	2	0.18643	0.3895	0.20392	0.9015	0.37667	0.9575	0.9615	1	0.936
chr4	56736854	56736913	6	0.95211	0.9815	0.95047	0.88183	0.957	0.96583	0.93758	0.95617	1
chr4	75474469	75474566	5	0.89937	0.7064	0.1826	0.893	0.82003	0.96216	0.8382	0.9744	0.9792
chr4	77421443	77421499	5	0.96843	1	0.96637	0.9496	0.9591	0.97708	0.9548	0.9816	1
chr4	77944296	77944469	3	0.97267	0.9593	0.96873	0.954	0.97494	0.97233	0.9645	0.989	0.81533
chr4	87499753	87499807	4	0.95621	0.9468	0.96058	0.1195	0.94883	0.9016	0.05625	0.96825	0.607
chr4	101017180	101017261	4	0.96039	0.9563	0.95946	0.62975	0.96412	0.9432	0.26375	0.97975	0.43275
chr4	101017221	101017273	5	0.957	0.9528	0.9677	0.534	0.9609	0.943	0.2348	0.9826	0.3096
chr4	105095494	105095507	2	0.91675	NaN	0.22867	1	0.47258	0.94925	0.91325	1	0.9165
chr4	106204833	106204892	5	0.94052	0.956	0.9725	0.9846	0.9685	0.98356	0.9941	0.99	0.9866
chr4	108556901	108557344	6	0.91798	0.933	0.91939	NaN	0.91725	0.02157	0.18717	0.017333	0.94183

***FIG. 6* (Continued)**

SUBSTITUTE SHEET (RULE 26)

chr4	109437530	109437665	5	0.967	0.9378	0.8929	0.94716	0.9672	0.9346	0.8839	0.1126	0.9374	0.8272	0.96	0.96077
chr4	109467197	109467259	5	1	0.9761	0.988	0.97588	1	0.9382	0.9696	0.9676	0.98	0.9596	0.9783	0.97225
chr4	115296828	115296884	5	0.9818	0.993	0.96792	0.97744	0.977	0.9618	0.9658	0.9481	1	0.9621	0.9537	0.9496
chr4	117965846	117965869	3	0.95133	0.1661	0.821	0.91247	0.20133	0.8313	0.94283	0.8955	0.071	0.748	0.87083	0.95989
chr4	120586234	120586282	6	0.84733	0.9876	0.96062	0.977	1	1	0.97583	0.976	0.9722	0.9745	0.88083	0.94683
chr4	120586331	120586386	6	0.853	0.9862	0.97038	0.95999	0.89933	0.9498	0.94367	0.9547	0.9477	0.9319	0.95033	0.95889
chr4	120586363	120586411	5	0.91	0.9839	0.9792	0.9384	0.9034	0.9808	0.9495	0.961	0.9716	0.9392	0.9433	0.96433
chr4	122635160	122635224	3	0.959	0.9132	0.8835	0.92233	0.13433	0.175	0.8925	0.8423	0.0567	0.1143	0.77467	0.96439
chr4	131736707	131736771	5	0.9524	0.9692	0.98387	0.94421	0.943	NaN	0.9642	0.9648	0.9386	0.9437	0.856	0.93957
chr4	131739894	131739920	5	0.9364	0.9588	0.9776	0.98488	1	0.9794	0.9749	0.9773	NaN	0.9586	0.9616	0.95737
chr4	131747021	131747123	9	0.92889	0.9675	0.97286	0.91571	0.95989	0.9467	0.97044	0.9634	0.9544	0.9537	0.935	0.95765
chr4	131749588	131749646	5	0.9316	0.9857	0.97725	0.95108	0.9714	0.9424	0.9761	0.9447	0.98	0.9756	0.9116	0.9549
chr4	131749815	131749841	5	0.9702	0.9811	0.979	0.95448	1	1	0.961	0.9734	NaN	0.9736	0.9668	0.96787
chr4	131751891	131751914	5	0.9616	0.9812	0.9735	0.96348	0.9946	NaN	0.9604	0.9678	0.9738	0.9673	0.9252	0.96387
chr4	131753034	131753111	7	0.94686	0.9736	0.975	0.96226	0.97257	0.9843	0.96521	0.9542	0.9699	0.9664	0.92243	0.96436
chr4	131753254	131753308	5	0.8988	0.9832	0.96238	0.96849	0.9144	0.9772	0.9565	0.9729	0.9666	0.9653	0.9028	0.95653
chr4	136813258	136813277	5	0.95	0.9939	0.97233	0.97445	1	1	0.9929	0.9467	1	0.9524	0.9833	0.97407
chr4	142397556	142397607	4	0.95325	0.9557	0.94644	0.9504	0.377	0.228	0.94725	0.9599	0.4505	0.6179	0.91725	0.95058
chr4	147713172	147713224	5	0.9568	0.968	0.9752	0.95928	0.942	0.9218	0.9881	0.9418	0.957	0.9532	0.9175	0.96667
chr4	148863176	148863234	5	NaN	0.9551	0.97775	0.93146	1	0.9904	0.9037	0.9605	0.975	0.9348	0.9616	0.9504
chr4	151230186	151230247	4	0.9285	0.9853	0.95775	0.92945	0.3195	0.4768	0.97588	0.9541	0.441	0.7879	0.87462	0.95842
chr4	158788200	158788239	3	0.93633	0.9679	0.95675	0.89407	0.92567	0.9003	0.40633	0.9568	0.9423	0.9213	0.9155	0.95711
chr4	158788202	158788239	2	0.9045	0.9622	0.95663	0.8949	0.911	0.8675	0.38525	0.952	0.9135	0.9175	0.8865	0.94642
chr4	182809349	182809368	2	0	0.1563	0.19112	0.18	0.875	0.014	0.20425	0	0	0.0108	0.271	0.36733
chr4	184396159	184396301	7	0.96143	0.966	0.97561	0.94	0.97257	0.9849	0.9085	0.9478	0.9899	0.9519	0.97021	0.95462
chr4	184396164	184396286	5	0.9738	0.9659	0.9728	0.9396	0.9648	0.9882	0.8969	0.9403	0.9904	0.9573	0.9713	0.95293
chr4	184396247	184396301	5	0.9696	0.9582	0.97705	0.94328	0.977	0.9882	0.9077	0.953	0.9904	0.9604	0.9746	0.9505
chr4	184672573	184672863	8	0.986	0.981	0.96172	0.94115	0.951	0.9764	0.94019	0.9653	0.9578	0.9436	0.93781	0.95012
chr4	184672581	184672863	7	0.988	0.9794	0.95911	0.93674	0.94771	0.9823	0.93807	0.9646	0.9609	0.9581	0.938	0.94829
chr4	184672808	184672863	5	0.9832	0.9827	0.96625	0.92356	0.9432	0.9752	0.9194	0.9633	0.9572	0.9663	0.951	0.9378

***FIG. 6* (Continued)**

SUBSTITUTE SHEET (RULE 26)

chr4	109437530	109437665	5	0.97374	0.9734	0.97253	0.946	0.96603	0.97944	0.9638	0.9726	0.96
chr4	109467197	109467259	5	0.99397	0.9568	0.97971	NaN	0.97777	0.96792	0.961	1	1
chr4	115296828	115296884	5	0.96738	0.9516	0.959	0.9364	0.9485	0.97597	0.9583	0.9018	1
chr4	117965846	117965869	3	0.95281	0.938	0.941	0.91567	0.95033	0.97227	0.79333	0.935	0.40633
chr4	120586234	120586282	6	0.94282	0.9722	0.94819	0.97983	0.97397	0.96921	0.94383	0.9465	1
chr4	120586331	120586386	6	0.95798	1	0.95269	0.93667	0.95694	0.97633	0.89417	0.95583	0.921
chr4	120586363	120586411	5	0.95663	0.9818	0.95477	0.946	0.9478	0.96672	0.8993	0.952	0.9538
chr4	122635160	122635224	3	0.94729	0.9077	0.94361	0.23933	0.94378	0.9292	0.0715	0.95233	0.42367
chr4	131736707	131736771	5	0.93656	0.9326	0.91417	0.9748	0.92729	0.95924	0.9188	0.9742	0.99
chr4	131739894	131739920	5	0.97978	0.9624	0.96071	0.9954	0.96803	0.96552	0.9779	0.9564	0.9734
chr4	131747021	131747123	9	0.95448	0.9493	0.9438	0.962	0.94769	0.97334	0.91983	NaN	0.97522
chr4	131749588	131749646	5	0.95951	0.968	0.95903	0.9638	0.95993	0.97456	0.9761	0.9762	0.9758
chr4	131749815	131749841	5	0.96443	0.9614	0.97827	0.9574	0.965	0.9738	0.9517	0.977	0.9796
chr4	131751891	131751914	5	0.96263	0.9744	0.96075	0.9666	0.93793	0.97344	0.9598	0.9704	0.9566
chr4	131753034	131753111	7	0.96612	0.9443	0.95219	0.974	0.96038	0.96546	0.9425	0.97657	0.98629
chr4	131753254	131753308	5	0.94903	0.9298	0.96073	0.958	0.95587	0.96992	0.9432	0.9682	0.9734
chr4	136813258	136813277	5	0.97125	0.95	0.94987	0.98	0.94127	0.97715	0.9614	NaN	0.9618
chr4	142397556	142397607	4	0.96482	0.963	0.965	0.9355	0.95975	0.96875	0.83687	0.96125	0.74625
chr4	147713172	147713224	5	0.96074	0.1026	0.96137	0.9204	0.962	0.96164	0.8832	0.9636	0.966
chr4	148863176	148863234	5	0.90291	0.9684	0.92025	0.9428	0.9497	0.96564	0.8907	0.9218	0.9636
chr4	151230186	151230247	4	0.9685	0.9113	0.95588	0.63775	0.94929	0.9615	0.18538	0.9765	0.64375
chr4	158788200	158788239	3	0.95081	0.9547	0.96133	0.97467	0.97361	0.98113	0.8525	0.97867	0.94
chr4	158788202	158788239	2	0.952	0.945	0.9605	0.962	0.97483	0.9802	0.83075	0.968	0.9675
chr4	182809349	182809368	2	0.12707	0.422	0.2135	0.539	0.20733	0.0077	0.01025	0	0.0105
chr4	184396159	184396301	7	0.95118	0.9721	0.96055	NaN	0.94931	0.0176	0.046	0.11271	0.98314
chr4	184396164	184396286	5	0.94829	0.9656	0.95783	NaN	0.9452	0.00552	0.0404	0.0812	0.9764
chr4	184396247	184396301	5	0.94897	0.9656	0.95627	0.0048	0.94803	0.02464	0.0345	0.1354	0.9764
chr4	184672573	184672863	8	0.94991	0.0856	0.4849	0.97912	0.93215	0.97583	0.93706	0.98113	0.9625
chr4	184672581	184672863	7	0.94949	0.074	0.41926	0.97929	0.92629	0.97626	0.94364	0.98	0.96757
chr4	184672808	184672863	5	0.94729	0.0442	0.2199	0.9822	0.91	0.97104	0.9524	0.9792	0.9644

FIG. 6 **(Continued)**

chr4	184740605	184740721	5	0.9654	0.9565	0.97145	0.91356	0.9652	0.968	0.9149	0.9238	0.9942	0.9752	0.9546	0.92123
chr4	185251245	185251286	2	0.926	0.822	0.89787	0.9327	0.1835	0.1425	0.93125	0.9258	0.1975	0.831	0.9505	0.93508
chr4	185342063	185342136	4	0.9225	0.9644	0.89256	0.9161	0.4905	0.3683	0.96213	0.9268	0.2718	0.2265	0.9175	0.96183
chr4	185342082	185342136	3	0.92	0.9644	0.89075	0.92493	0.49733	0.3673	0.95783	0.9213	0.256	0.2362	0.92883	0.96794
chr5	1067897	1067959	6	0.35533	0.9621	0.96954	0.9517	0.9755	0.9633	0.96867	0.9601	0.9682	0.9656	0.05983	0.96506
chr5	1342905	1342932	5	0.9602	0.9643	0.9692	0.957	0.9538	0.9914	0.9557	0.9796	0.9688	0.9793	0.9452	0.9608
chr5	1342922	1343061	7	0.95186	0.9775	0.96868	0.94891	0.96657	0.9624	0.95321	0.9601	0.9764	0.9711	0.92557	0.96126
chr5	1342929	1343053	5	0.963	0.9791	0.965	0.94492	0.9658	0.9692	0.9663	0.9511	0.9824	0.9729	0.9278	0.961
chr5	1342957	1343061	5	0.9502	0.9819	0.97215	0.94892	0.9706	0.952	0.9506	0.9532	0.9788	0.9623	0.9217	0.95797
chr5	1494154	1494188	4	0.94475	0.9763	0.95994	0.9401	0.97425	0.9183	0.97037	0.9129	0.9498	0.9494	0.9445	0.972
chr5	5229153	5229172	5	0.892	1	0.9784	0.97431	0.9734	0.9214	0.9675	0.9763	1	0.9536	0.9567	0.97959
chr5	6649844	6649865	2	1	0.985	0.95246	0.4083	0.9615	0.975	0.8765	0.9688	0.872	0.9353	0.9405	0.85042
chr5	10443448	10443496	6	1	0.9861	0.97421	0.96907	0.9785	0.9872	0.96442	1	0.9882	1	0.9765	0.98056
chr5	10626076	10626143	5	0.9858	0.9663	0.97128	0.88688	0.9654	0.94	0.9071	0.9595	0.9372	0.9492	0.9483	0.91557
chr5	10933394	10933423	2	0.9545	0.9853	0.955	0.29742	1	0.9025	0.625	0.9285	0.9335	0.8775	0.92125	0.46675
chr5	17219703	17219822	6	0.9805	0.9801	0.95921	0.95443	0.94433	0.9732	0.94733	0.9291	0.9565	0.9317	0.90883	0.96703
chr5	17219726	17219822	5	0.9844	0.9801	0.95785	0.94796	0.94	0.9814	0.947	0.9248	0.9544	0.9255	0.9028	0.96797
chr5	17518579	17518781	18	0.93139	0.9739	0.96906	0.9609	0.96172	0.9583	0.97139	0.9571	0.9558	0.9538	0.92461	0.967
chr5	17518628	17518781	15	0.9374	0.977	0.97012	0.96083	0.9672	0.9659	0.97267	0.9621	0.9654	0.967	0.9346	0.96991
chr5	17518692	17518781	13	0.94085	0.977	0.97029	0.96017	0.96954	0.9677	0.97269	0.963	0.969	0.9713	0.93988	0.97103
chr5	17518726	17518766	5	0.945	0.9779	0.97025	0.95796	0.971	0.9716	0.971	0.9649	0.9724	0.9756	0.9473	0.97243
chr5	17519848	17519900	5	0.9598	0.9815	0.97345	0.9626	NaN	0.9072	0.9699	0.9613	0.9586	0.9562	0.9641	0.965
chr5	17524020	17524081	5	0.7872	0.9815	0.95808	0.98304	0.9524	0.979	0.9653	0.9574	0.9684	0.9825	0.8623	0.98349
chr5	17525875	17525971	8	0.93113	0.9923	0.96766	0.9638	0.97713	0.9804	0.97106	0.9456	0.9664	0.9382	0.91144	0.97423
chr5	17581444	17581505	5	0.9098	0.9737	0.97775	0.96436	0.9684	0.9794	0.9615	0.9561	0.9482	0.9431	0.9595	0.97173
chr5	17585353	17585433	11	0.94145	0.9774	0.97343	0.95685	0.97082	0.9673	0.96945	0.957	0.9678	0.9676	0.9415	0.972
chr5	17586912	17587013	7	0.91843	0.9718	0.964	0.96557	0.94043	0.9489	0.973	0.9537	0.926	0.9276	0.91636	0.96221
chr5	17586957	17587013	6	0.92433	0.9744	0.97042	0.97137	0.94117	0.9522	0.97575	0.9578	0.9363	0.9374	0.9255	0.96756
chr5	17590591	17590635	8	0.9635	0.9788	0.97547	0.96613	0.9645	0.9608	0.96013	0.9808	0.9758	0.9681	0.9075	0.94919
chr5	21496442	21496529	5	0.963	0.9511	0.9692	0.94826	0.9684	0.9468	0.9836	0.9464	0.9762	0.9766	0.9389	0.96293

FIG. 6 **(Continued)**

chr4	184740605	184740721	5	0.9396	0.9424	0.12963	0.968	0.8934	0.9561	0.908	0.992	0.9776	
chr4	185251245	185251286	2	0.95893	0.9225	0.96367	0.917	0.94467	0.9554	0.801	0.9505	0.1655	
chr4	185342063	185342136	4	0.96132	0.9363	0.95796	0.1715	0.95563	0.8889	0.05188	0.94275	0.864	
chr4	185342082	185342136	3	0.96029	0.952	0.96639	0.177	0.96189	0.88887	0.05217	0.94633	0.86267	
chr5	1067897	1067959	6	0.96312	0.7212	0.95925	0.9585	0.96511	0.95697	0.89992	0.97733	0.97433	
chr5	1342905	1342932	5	0.95606	0.9798	0.97747	0.8354	0.9588	0.96893	0.2573	0.9764	0.9604	
chr5	1342922	1343061	7	0.95263	0.9663	0.96102	0.73114	0.95264	0.9616	0.13686	0.962	0.97529	
chr5	1342929	1343053	5	0.9482	0.9668	0.96107	0.6944	0.955	0.96248	0.1256	0.9666	0.9654	
chr5	1342957	1343061	5	0.95406	0.9572	0.95563	0.7204	0.94913	0.95772	0.1153	0.9538	0.9686	
chr5	1494154	1494188	4	0.969	0.956	0.96733	0.17	0.96188	0.94955	0.33862	0.969	0.95325	
chr5	5229153	5229172	5	0.96911	0.9778	0.9846	0.9698	0.94947	0.95468	0.9314	1	0.938	
chr5	6649844	6649865	2	0.9155	0.981	0.97233	1	0.94425	0.9804	0.95475	0.9395	1	
chr5	10443448	10443496	6	0.96245	0.9712	0.96075	0.9585	0.94928	0.9932	0.97283	0.98617	0.98483	
chr5	10626076	10626143	5	0.9288	0.1316	0.17239	0.9232	0.89943	0.96784	0.8723	0.9692	0.963	
chr5	10933394	10933423	2	0.4375	0.8275	0.50875	0.917	0.2626	0.9739	0.5995	0.9895	0.943	
chr5	17219703	17219822	6	0.97069	0.9403	0.95831	0.19183	0.95925	0.92683	0.08367	0.982	0.9335	
chr5	17219726	17219822	5	0.9692	0.9644	0.96273	0.2138	0.9587	0.9356	0.087	0.9824	0.9352	
chr5	17518579	17518781	18	0.96694	0.9647	0.96963	0.97	0.96793	0.97304	0.94003	0.97144	0.96206	
chr5	17518628	17518781	15	0.97008	0.9683	0.97081	0.9714	0.96983	0.97336	0.95367	0.97387	0.97	
chr5	17518692	17518781	13	0.97101	0.9675	0.97027	0.97138	0.97022	0.97298	0.95838	0.97485	0.974	
chr5	17518726	17518766	5	0.97077	0.9684	0.96917	0.9716	0.97227	0.9732	0.9639	0.9718	0.9806	
chr5	17519848	17519900	5	0.96686	0.9856	0.96573	0.9416	0.97193	0.96836	0.9159	0.9734	0.9566	
chr5	17524020	17524081	5	0.97114	0.9792	0.97203	0.975	0.96263	0.98031	0.8941	0.974	0.9482	
chr5	17525875	17525971	8	0.96539	0.9629	0.97915	0.96913	0.95925	0.97085	0.94231	0.97562	0.95875	
chr5	17581444	17581505	5	0.96157	0.9718	0.969	0.9412	0.96303	0.9758	0.9293	0.9678	0.936	
chr5	17585353	17585433	11	0.96895	0.9735	0.97235	0.96764	0.96917	0.97293	0.9635	0.97382	0.97327	
chr5	17586912	17587013	7	0.95863	0.972	0.96826	0.96743	0.96176	0.97186	0.88457	0.96114	0.949	
chr5	17586957	17587013	6	0.9635	0.9727	0.97189	0.97033	0.96447	0.9769	0.89683	0.96417	0.95333	
chr5	17590591	17590635	8	0.96832	0.9926	0.95612	0.91487	0.96985	0.96233	0.97088	0.993	0.981	
chr5	21496442	21496529	5	0.97046	0.9478	0.95523	0.9366	0.94867	0.96448	0.9404	0.9818	0.9836	

FIG. 6 **(Continued)**

chr5	32164478	32164552	6	0.97633	0.9522	0.96633	0.95317	0.963	0.9663	0.97408	0.9584	0.9558	0.9523	0.95658	0.96131
chr5	39202254	39202357	4	1	0.0905	0.12569	0.9617	0.0295	0	0.87825	0.8458	0.021	0.1958	0.89412	0.956
chr5	39208650	39208709	4	0.99325	0.0429	0.13429	0.9327	0.015	0.0568	0.91112	0.8574	0.0815	0.2796	0.92425	0.94024
chr5	39885630	39885638	2	NaN	1	0.974	0.9634	0.55	0.9165	1	0.9423	1	0.9688	0.881	0.96425
chr5	53128294	53128313	5	0.8668	0.9926	0.97405	0.98628	1	1	0.9909	0.9858	1	0.9211	0.9817	0.97953
chr5	56708552	56708571	5	1	0.9636	0.99	0.97486	NaN	0.8874	0.9889	0.9434	0.9778	0.9929	1	0.98217
chr5	60304536	60304595	5	1	0.9774	0.9736	0.98736	0.9542	0.91	0.9964	0.9923	NaN	0.9555	0.9323	0.9617
chr5	64134960	64134990	5	0.9356	0.9753	0.9667	0.96212	1	0.9758	0.9847	0.9715	0.947	0.9451	0.8785	0.95893
chr5	65548502	65548537	3	0.96667	0.9609	0.88925	0.95807	0.34033	0.03	0.9155	0.75	0.1977	0.1173	0.9625	0.97061
chr5	65796951	65797056	4	0.928	0.8348	0.87562	0.94875	0.2135	0.0415	0.95037	0.8456	0.3055	0.6525	0.87325	0.96771
chr5	65796983	65797056	3	0.91367	0.7992	0.84042	0.957	0.148	0.0207	0.94167	0.8113	0.233	0.58	0.84633	0.9655
chr5	67100526	67100567	4	0.96425	0.9627	0.90156	0.95195	0.56175	0.3565	0.95012	0.872	0.142	0.159	0.95675	0.97762
chr5	68256353	68256388	3	0.86533	0.844	0.81967	0.95275	0.21267	0.1643	0.97167	0.818	0.4193	0.8255	0.88483	0.95851
chr5	69634615	69634738	5	0.893	0.9919	0.9799	0.94628	0.9754	0.9346	0.9676	0.978	0.9832	0.9714	0.9582	0.9592
chr5	69657620	69657729	8	0.97562	0.9847	0.97278	0.98067	0.974	0.9691	0.98206	0.9809	0.9725	0.9832	0.93531	0.97765
chr5	69657636	69657729	5	0.9806	0.9817	0.97085	0.97944	0.9584	0.9606	0.9761	0.975	0.9726	0.9865	0.9361	0.97873
chr5	69664357	69664456	5	1	0.9783	0.9673	0.94732	0.9684	0.9332	0.9788	0.9647	0.96	0.9867	0.8894	0.98487
chr5	69706367	69706495	5	0.9742	0.9777	0.9597	0.93244	0.9668	0.9854	0.968	0.9442	0.9694	0.9639	0.9154	0.96297
chr5	69903776	69903866	7	0.952	0.9568	0.97421	0.95097	0.98029	0.9774	0.96836	0.9752	0.964	0.9593	0.95264	0.97767
chr5	69903810	69903866	5	0.9494	0.9499	0.9639	0.95428	0.9724	0.9818	0.9714	0.9776	0.9596	0.943	0.9521	0.97563
chr5	69915285	69915399	6	0.97217	0.9782	0.97908	0.96143	0.96967	0.9773	0.97267	0.9765	0.9718	0.9724	0.94942	0.97911
chr5	69915299	69915533	6	0.9835	0.9826	0.97446	0.96533	0.96983	0.9533	0.97617	0.9738	0.9767	0.9625	0.94858	0.97736
chr5	69920806	69920904	5	0.9664	0.9647	0.97745	0.97068	0.967	0.9668	0.9759	0.9737	0.9778	0.9719	0.9203	0.98278
chr5	70197059	70197305	5	0.924	0.9857	0.9897	0.958	0.98	0.9778	0.9851	0.9647	0.9826	0.9626	0.9363	0.97383
chr5	70246958	70247240	5	0.985	0.9855	0.9742	0.95871	0.9546	0.932	0.9899	0.9441	0.978	0.9787	0.9369	0.97637
chr5	70488312	70488412	5	0.96	0.9773	0.97155	0.9626	0.96	0.965	0.9878	0.9897	0.9958	0.9829	0.9226	0.9637
chr5	70516801	70516987	6	0.988	0.9806	0.97692	0.96667	0.96467	0.9825	0.99342	0.9696	0.9683	0.9724	0.91808	0.96561
chr5	70776115	70776247	5	0.9516	0.9876	0.96315	0.95236	0.967	0.976	0.9469	0.9605	0.9472	0.9642	0.913	0.96373
chr5	70778565	70778651	5	0.9716	0.9749	0.9571	0.94396	0.9856	0.96	0.9647	0.9762	0.9878	0.9553	0.9261	0.95363
chr5	72460920	72460931	2	0.963	0.9672	0.9595	0.33025	0.9605	0.8665	0.45625	0.942	0.9265	0.856	0.932	0.89817

***FIG. 6* (Continued)**

SUBSTITUTE SHEET (RULE 26)

chr5	32164478	32164552	6	0.94843	0.9528	0.95864	0.82683	0.94072	0.9624	0.19942	0.94483	0.9665	
chr5	39202254	39202357	4	0.99196	0.9595	0.95046	0.981	0.96379	0.96585	0.91175	0.97525	0.03525	
chr5	39208650	39208709	4	0.94939	0.8873	0.92808	0.97025	0.92279	0.96545	0.81675	0.983	0.0425	
chr5	39885630	39885638	2	0.97564	1	0.96117	1	0.92842	0.9714	0.93125	0.9855	1	
chr5	53128294	53128313	5	0.96991	0.9714	0.977	0.9448	0.9587	0.9785	0.9621	0.9578	NaN	
chr5	56708552	56708571	5	0.9854	0.96	0.9515	1	0.959	0.98276	0.9607	0.9206	0.95	
chr5	60304536	60304595	5	0.97856	1	0.9787	0.95	0.97813	0.95072	0.9254	1	0.9274	
chr5	64134960	64134990	5	0.95769	0.9672	0.9453	0.9722	0.94782	0.9926	0.9791	0.8916	0.9894	
chr5	65548502	65548537	3	0.97386	0.8907	0.96106	0.89	0.95461	0.95613	0.54233	0.972	0.373	
chr5	65796951	65796983	4	0.97343	0.5953	0.95517	0.93075	0.96267	0.9785	0.88325	0.97475	0.13	
chr5	65796983	67100526	3	0.97233	0.479	0.94778	0.92667	0.95722	0.97453	0.85533	0.97033	0.08133	
chr5	67100526	67100567	4	0.97404	0.8313	0.95533	0.67425	0.96692	0.96955	0.22238	0.979	0.7015	
chr5	68256353	68256388	3	0.97876	0.8817	0.94394	1	0.95717	0.96747	0.972	0.95833	NaN	
chr5	69634615	69634738	5	0.97191	0.9742	0.94646	0.934	0.94203	0.97684	0.9753	0.9712	0.9634	
chr5	69657620	69657729	8	0.97468	0.9718	0.96896	0.975	0.97292	0.97628	0.97163	0.97637	NaN	
chr5	69657636	69657729	5	0.967	0.9734	0.9621	0.9736	0.96957	0.97128	0.9735	0.9764	0.9608	
chr5	69664357	69664456	5	0.94931	0.9776	0.9758	0.9888	0.9698	0.98012	0.9708	0.98	0.9708	
chr5	69706367	69706495	5	0.9684	0.9472	0.968	0.9796	0.96473	0.97668	0.9459	0.984	0.962	
chr5	69903776	69903866	7	0.97367	0.9441	0.95986	0.98586	0.963	0.98574	0.9655	0.98929	0.96257	
chr5	69903810	69903866	5	0.9693	0.9462	0.9577	0.9848	0.95863	0.98612	0.9517	0.9916	0.955	
chr5	69915285	69915399	6	0.96952	0.9835	0.97711	0.966	0.97222	0.97083	0.95158	0.97467	0.97433	
chr5	69915299	69915533	6	0.972	0.9755	0.97017	0.961	0.95928	0.98363	0.95775	0.9765	0.98533	
chr5	69920806	69920904	5	0.9756	0.9534	0.971	0.9724	0.97213	0.97696	0.947	0.9812	0.969	
chr5	70197059	70197305	5	0.97277	0.991	0.97312	0.9728	0.97287	0.97712	0.9888	0.9644	0.962	
chr5	70246958	70247240	5	0.9808	0.934	0.97243	0.9922	0.97497	0.97256	0.9417	0.9624	0.952	
chr5	70488312	70488412	5	0.96777	0.9514	0.96677	0.9792	0.96737	0.9816	0.9635	0.9726	0.9326	
chr5	70516801	70516987	6	0.97414	0.9578	0.96922	0.96583	0.96747	0.9742	0.95783	0.97633	0.99683	
chr5	70776115	70776247	5	0.96711	0.943	0.96103	0.9728	0.9517	0.9744	0.9249	0.9744	0.9512	
chr5	70778565	70778651	5	0.96086	0.951	0.9522	0.954	0.9708	0.97272	0.9851	0.9692	0.987	
chr5	72460920	72460931	2	0.8915	0.944	0.94067	0.9485	0.89	0.9632	0.77775	0.99	0.9395	

FIG. 6 **(Continued)**

chr5	72506267	72506279	2	1	0.992	0.96687	0.34567	0.9375	0.9565	0.2325	0.9608	1	0.974	0.93225	0.76942
chr5	76732631	76732825	8	0.963	0.9563	0.9185	0.94632	0.87875	0.8234	0.96731	0.888	0.4393	0.1011	0.93362	0.96879
chr5	76732634	76732664	2	0.9655	0.944	0.90137	0.9415	0.8865	0.838	0.97175	0.8573	0.3605	0.103	0.92375	0.96275
chr5	76732716	76732788	4	0.96525	0.9639	0.92675	0.94755	0.87775	0.83	0.96862	0.8926	0.4948	0.0898	0.93388	0.96579
chr5	76732750	76732825	4	0.97925	0.9716	0.92819	0.94575	0.878	0.8213	0.962	0.8893	0.4745	0.0989	0.93712	0.96883
chr5	76732785	76732825	2	1	0.975	0.9265	0.9372	0.88	0.792	0.96875	0.8848	0.449	0.1245	0.92275	0.9725
chr5	76732965	76733072	3	0.972	0.9487	0.87925	0.92507	0.685	0.6677	0.9615	0.6258	0.2247	0.0675	0.8765	0.96156
chr5	80143576	80143681	5	0.927	0.9747	0.9224	0.96244	0.9574	0.9432	0.9151	0.9612	0.9468	0.9453	0.9447	0.97327
chr5	80143591	80143730	7	0.95586	0.9755	0.94154	0.96491	0.93629	0.9521	0.91493	0.9648	0.9473	0.9521	0.9555	0.9731
chr5	80143654	80143730	5	0.97	0.9743	0.9441	0.9696	0.922	0.9454	0.9212	0.9672	0.9428	0.9568	0.952	0.97233
chr5	80147725	80147820	3	0.89633	0.9389	0.95658	0.49047	0.89933	0.9507	0.74233	0.9528	0.917	0.892	0.92967	0.93139
chr5	88758680	88758792	4	0.96975	0.1268	0.0396	0.95655	0.132	0.0628	0.8775	0.0081	0.063	0.1199	0.94875	0.95696
chr5	91470718	91470740	2	0.9545	0.9795	0.9875	0.6097	0.982	1	0.927	0.9493	0.9665	0.947	0.80975	NaN
chr5	96282924	96283000	5	NaN	0.975	0.98455	0.95472	0.9858	0.9894	0.9913	0.9765	0.9312	0.971	0.9713	0.98753
chr5	96681539	96681595	5	0.9548	0.978	0.98795	0.98608	0.93	0.975	0.9739	0.9765	0.9858	0.9576	0.9814	0.96994
chr5	98851590	98851630	5	0.9818	0.9521	0.97605	0.96904	0.9654	0.9692	0.9781	0.9815	0.931	0.9568	0.9859	0.9532
chr5	103140663	103140711	5	0.8978	0.9684	0.98055	0.95516	0.94	0.9636	1	1	1	0.9724	0.9631	0.9963
chr5	113073818	113073842	4	0.893	0.2358	0.12531	0.9614	0.467	0.0815	0.9615	0.9198	0.5665	0.3288	0.88425	0.96537
chr5	120694499	120694558	6	0.94133	0.97	0.97542	0.92581	0.98483	0.9472	0.98158	0.9894	0.9405	0.9416	0.95258	0.95931
chr5	122220731	122220736	2	1	0.875	0.959	0.21033	1	1	0.125	0.9043	1	0.75	0.8	0.279
chr5	123867469	123867512	5	0.92	0.9759	0.96675	0.939	0.8916	0.9394	0.97	0.9462	0.9636	0.9204	0.8811	0.96847
chr5	124912614	124912648	2	1	1	0.96825	NaN	NaN	0.7665	0.1335	0.8665	0.8125	0.6458	NaN	0
chr5	124936597	124936630	5	1	0.9801	0.9752	0.94426	0.9692	0.9518	0.984	0.9564	NaN	0.8761	0.9697	0.95937
chr5	126762691	126762719	4	0.95125	0.9522	0.90406	0.0137	0.60325	0.4795	0.1735	0.8673	0.1405	0.0669	0.96775	0.03648
chr5	126762699	126762719	3	0.95167	0.9552	0.90858	0.01687	0.63467	0.5173	0.19167	0.8767	0.1617	0.0677	0.96817	0.04311
chr5	131339017	131339045	2	1	0.9437	0.88687	0.9502	0.8695	0.7925	0.9185	0.0243	0.663	0.1075	0.956	0.97125
chr5	131657782	131657899	5	0.9866	0.9531	0.94275	0.90568	0.9836	0.9526	0.8925	0.9675	0.9452	0.9747	0.9459	0.93253
chr5	131657805	131657899	4	0.98325	0.9514	0.95125	0.90975	0.99	0.96	0.892	0.9668	0.9315	0.9758	0.94188	0.95033
chr5	133699602	133699621	4	0.92	0.9495	0.92588	0.95585	0.204	0.451	0.92712	0.908	0.2775	0.396	0.94412	0.94858
chr5	134882707	134882734	5	0.9688	0.976	0.97163	0.9558	0.9798	0.9754	0.9525	0.9614	0.9668	0.9573	0.9689	0.97173

***FIG. 6* (Continued)**

SUBSTITUTE SHEET (RULE 26)

chr5	72506267	72506279	2	0.76893	0.94	0.95508	0.9625	0.91192	0.9811	0.9035	0.982	1	
chr5	76732631	76732825	8	0.96337	0.9545	0.95969	0.83937	0.95821	0.96268	0.2335	0.97462	0.93075	
chr5	76732634	76732664	2	0.96307	0.932	0.94533	0.7725	0.95867	0.9637	0.213	0.982	0.911	
chr5	76732716	76732788	4	0.96421	0.9703	0.96683	0.8585	0.95471	0.95915	0.22575	0.972	0.9305	
chr5	76732750	76732825	4	0.96164	0.9693	0.96367	0.8885	0.95712	0.9599	0.24888	0.97725	0.93925	
chr5	76732785	76732825	2	0.954	0.976	0.95833	0.934	0.96175	0.9626	0.269	0.9875	0.938	
chr5	76732965	76733072	3	0.96105	0.9237	0.93261	0.71267	0.94561	0.94947	0.2015	0.95633	0.84633	
chr5	80143576	80143681	5	0.96994	0.9718	0.96647	0.115	0.95937	0.02684	0.2384	0.0168	0.9576	
chr5	80143591	80143730	7	0.96602	0.961	0.96093	0.22386	0.9586	0.03211	0.32643	0.014571	0.96329	
chr5	80143654	80143730	5	0.96386	0.9564	0.95623	0.2598	0.95753	0.02528	0.3596	0.0074	0.963	
chr5	80147725	80147820	3	0.9421	0.8673	0.96061	0.931	0.95533	0.9702	0.78317	0.959	0.93	
chr5	88758680	88758792	4	0.96032	0.4258	0.79371	0.9545	0.93063	0.92415	0.89012	0.9015	0.13925	
chr5	91470718	91470740	2	0.322	0.982	0.96033	0.969	0.9205	0.9787	0.923	0.9645	1	
chr5	96282924	96283000	5	0.98497	0.9784	0.9766	0.9924	0.97513	0.98064	0.9534	0.9652	0.9936	
chr5	96681539	96681595	5	0.9816	0.9666	0.96913	0.9648	0.9673	0.97996	0.9729	0.981	0.984	
chr5	98851590	98851630	5	0.9694	0.985	0.94553	0.9314	0.97137	0.97348	0.9356	0.9438	0.9242	
chr5	103140663	103140711	5	0.95326	1	0.97133	0.9856	0.97792	0.97	0.9108	1	0.9666	
chr5	113073818	113073842	4	0.96875	0.9553	0.97471	0.89875	0.95862	0.9713	0.82975	0.956	0.742	
chr5	120694499	120694558	6	0.96426	0.8607	0.93969	0.963	0.94494	0.96748	0.95608	0.9725	0.98033	
chr5	122220731	122220736	2	0.5966	0.9085	0.95575	1	0.4185	0.981	0.90475	0.982	1	
chr5	123867469	123867512	5	0.9719	NaN	0.94836	0.936	0.97253	0.98288	0.8878	0.9288	0.9834	
chr5	124912614	124912648	2	0.34208	0.9115	0.96192	0.857	0.0524	0.8624	0.43825	0.933	1	
chr5	124936597	124936630	5	0.95746	1	0.9552	0.5568	0.95497	0.91348	0.1088	0.9574	NaN	
chr5	126762691	126762719	4	0.04209	0.8838	0.907	0.07	0.05167	0.88181	0.03188	0.95275	0.726	
chr5	126762699	126762719	3	0.04662	0.9117	0.93217	0.076	0.06344	0.87767	0.0365	0.948	0.75267	
chr5	131339017	131339045	2	0.967	0.943	0.9755	0.3105	0.97525	0.9297	0.15225	0.9575	0.8885	
chr5	131657782	131657899	5	0.91371	0.077	0.01577	0.9378	0.86203	0.95692	0.9624	0.9564	0.9772	
chr5	131657805	131657899	4	0.91839	0.0745	0.01725	0.92225	0.86604	0.9543	0.95537	0.95725	0.9715	
chr5	133699602	133699621	4	0.93836	0.9653	0.94842	0.2165	0.93975	0.9078	0.15413	0.96675	0.259	
chr5	134882707	134882734	5	0.98011	0.9502	0.96317	0.9778	0.9756	0.97631	0.9806	0.9698	0.9532	

FIG. 6 **(Continued)**

chr5	139089827	139089869	2	0.9445	0.9643	0.96588	NaN	1	1	NaN	0.8918	0.9445	0.9773	0.89625	0.1155
chr5	142088691	142088788	4	0.96675	0.9628	0.97975	0.95995	0.417	0.4215	0.98863	0.9686	0.6915	0.9339	0.93712	0.95762
chr5	143213075	143213141	5	0.9776	0.9801	0.96435	0.933	0.9416	0.9182	0.9651	0.9628	0.9238	0.918	0.9508	0.9567
chr5	143229100	143229132	3	0.869	0.8537	0.88992	0.95107	0.31233	0.3283	0.97433	0.6955	0.106	0.1608	0.96067	0.96672
chr5	146259888	146259968	8	0.96913	0.9765	0.98375	0.95292	0.952	0.9661	0.956	0.9716	0.9639	0.9689	0.97906	0.98173
chr5	150478412	150478503	7	0.97143	0.9532	0.93329	0.07134	0.94357	0.9393	0.28207	0.9706	0.9344	0.9599	0.90179	0.15626
chr5	150478428	150478503	5	0.9702	0.9599	0.9396	0.038	0.9432	0.9578	0.2481	0.9665	0.931	0.9676	0.8859	0.13867
chr5	151096171	151096187	3	0.971	0.9722	0.98075	0.84447	0.96233	0.9813	0.312	0.9665	0.948	0.971	0.968	0.95606
chr5	151096184	151096194	2	0.9495	0.9612	0.95975	0.7493	0.9105	0.946	0.269	0.953	0.9275	0.9438	0.97025	0.91383
chr5	151242302	151242418	4	1	0.9803	0.96031	0.94	0.9435	0.952	0.97162	0.9406	0.913	0.953	0.93388	0.94457
chr5	152345884	152345900	5	0.9714	0.9833	0.99545	0.98096	0.96	0.8096	0.9714	0.9292	0.9778	1	0.98	0.98103
chr5	154456362	154456476	5	0.9532	0.9769	0.9707	0.95924	0.9724	0.9666	0.9673	0.9636	0.95	0.9602	0.9316	0.9515
chr5	157772296	157772321	3	0.94233	0.9781	0.92458	0.96233	0.31033	0.691	0.96233	0.9353	0.184	0.539	0.9085	0.96822
chr5	160476200	160476244	2	0.9475	0.9588	0.96875	0.9104	0.7235	0.8975	0.92475	0.948	0.8665	0.929	0.867	0.9015
chr5	166972635	166972664	6	0.825	0.9751	0.95746	0.94058	0.89483	1	0.98317	0.9722	0.9625	0.9936	0.8895	0.97032
chr5	166972645	166972664	5	0.79	0.9701	0.94895	0.9287	0.8988	1	0.9798	0.9666	0.98	0.9923	0.8841	0.97239
chr5	169656449	169656511	4	0.97625	0.9698	0.90744	0.93655	0.6165	0.6318	0.921	0.878	0.3715	0.2009	0.93012	0.94017
chr5	171967560	171967607	2	NaN	1	0.97913	1	NaN	1	1	0.95	0.7085	1	0.9	0.97913
chr5	172431453	172431471	2	1	1	0.982	0.9207	0.9405	0.9675	0.4445	0.9328	0.931	0.9243	0.932	0.95375
chr5	173052639	173052740	4	0.975	0.9793	0.941	0.9416	0.954	0.9678	0.95	0.9389	0.9228	0.935	0.927	0.95933
chr5	175526377	175526492	3	0.991	0.9328	0.94233	0.9304	0.488	0.2633	0.90567	0.9377	0.5283	0.8162	0.90717	0.95617
chr5	176541013	176541032	2	0.944	0.2712	0.01633	0.9037	0.73	0.672	0.80025	0	0.3085	0.0045	0.9395	0.9175
chr5	177159384	177159528	5	1	0.9789	0.97175	0.95344	0.9708	0.9724	0.9743	0.9405	0.956	0.9503	0.9407	0.97913
chr5	177159390	177159528	4	1	0.9865	0.97413	0.95325	0.9635	0.9655	0.98288	0.9398	0.945	0.951	0.92588	0.98175
chr5	177159624	177159692	5	0.9794	0.9741	0.9739	0.96012	0.9646	0.9722	0.9584	0.9383	0.9692	0.9656	0.9579	0.96393
chr5	177159657	177159719	5	0.988	0.9826	0.9762	0.9558	0.971	0.9362	0.9526	0.9361	0.9364	0.9538	0.964	0.96083
chr5	177510705	177510767	5	0.9094	0.9646	0.9366	0.00625	0.9494	0.9482	0.1293	0.8935	0.9288	0.9593	0.9152	0.01387
chr5	177510718	177510835	5	0.8468	0.9713	0.93835	0.00775	0.9644	0.9536	0.1247	0.8924	0.9348	0.9687	0.8882	0.01184
chr5	177510732	177510900	5	0.8192	0.9694	0.93515	0.01131	0.948	0.9236	0.1123	0.8861	0.9248	0.9617	0.8627	0.014
chr5	178118100	178118232	5	0.9018	0.9633	0.93315	0.8318	0.9428	0.9728	0.8356	0.9425	0.9398	0.9482	0.8757	0.86087

FIG. 6 **(Continued)**

chr5	139089827	139089869	2	0.51633	NaN	0.0095	0.814	NaN	0.946	0.90775	1	0.9645	
chr5	142088691	142088788	4	0.97725	0.9693	0.96375	0.9525	0.96808	0.96935	0.76375	0.96775	0.63325	
chr5	143213075	143213141	5	0.97157	0.9682	0.96587	0.8072	0.95353	0.96332	0.1913	0.9826	0.9524	
chr5	143229100	143229132	3	0.972	0.9347	0.97478	0.91867	0.97583	0.95767	0.88533	0.96567	0.27233	
chr5	146259888	146259968	8	0.95593	0.9615	0.94478	0.96263	0.95179	0.96682	0.96731	0.96837	0.98162	
chr5	150478412	150478503	7	0.15143	0.3023	0.01864	0.93257	0.06383	0.969	0.88764	0.98186	0.89514	
chr5	150478428	150478503	5	0.14294	0.1464	0.0136	0.9208	0.04873	0.96636	0.8696	0.9804	0.896	
chr5	151096171	151096187	3	0.94662	0.9347	0.9165	0.961	0.95278	0.96233	0.942	0.98067	0.94367	
chr5	151096184	151096194	2	0.91493	0.8715	0.84375	0.9625	0.901	0.9668	0.897	0.9855	0.926	
chr5	151242302	151242418	4	0.958	0.9813	0.92825	0.85825	0.96008	0.9438	0.16288	0.941	0.96225	
chr5	152345884	152345900	5	0.94824	1	0.98059	0.84	0.9702	0.97249	0.9216	1	1	
chr5	154456362	154456476	5	0.9528	0.1026	0.9321	0.9452	0.95567	0.96496	0.9503	0.977	0.9736	
chr5	157772296	157772321	3	0.96319	0.9657	0.96367	0.617	0.94722	0.96093	0.111	0.969	0.73633	
chr5	160476200	160476244	2	0.906	0.896	0.91567	0.941	0.9195	0.9703	0.892	0.9815	0.1725	
chr5	166972635	166972664	6	0.97746	0.9792	0.92872	0.9405	0.93089	0.96443	0.93942	0.92367	0.91933	
chr5	166972645	166972664	5	0.98275	1	0.93657	0.9572	0.92373	0.95732	0.9673	0.9084	0.9254	
chr5	169656449	169656511	4	0.93046	0.952	0.96612	0.50575	0.94307	0.8936	0.16475	0.9675	0.785	
chr5	171967560	171967607	2	0.75	NaN	0.9688	NaN	0.96658	0.9484	0.91175	0.9285	0.667	
chr5	172431453	172431471	2	0.94629	1	0.96617	0.9225	0.96092	0.9817	0.9185	0.941	0.9745	
chr5	173052639	173052740	4	0.97629	0.9653	0.95421	0.0395	0.95683	0.8932	0.09488	0.9705	0.962	
chr5	175526377	175526492	3	0.96429	0.95	0.94751	0.95867	0.95289	0.96487	0.8205	0.967	0.84067	
chr5	176541013	176541032	2	0.91907	0.8175	0.85317	0.9275	0.8835	0.8996	0.8565	0.881	0.8115	
chr5	177159384	177159528	5	0.96851	0.9754	0.9656	0.042	0.9599	0.90448	0.1736	0.989	0.9706	
chr5	177159390	177159528	4	0.96821	0.987	0.96679	0.01675	0.96375	0.9003	0.15562	0.98625	0.9765	
chr5	177159624	177159692	5	0.96966	0.9692	0.9611	0.1238	0.9465	0.93744	0.1062	0.9824	0.9502	
chr5	177159657	177159719	5	0.96509	0.9524	0.94817	0.146	0.9445	0.94548	0.1108	0.988	0.9424	
chr5	177510705	177510767	5	0.01621	0	0.00697	NaN	0.03803	0.57476	0.115	0.8956	0.9644	
chr5	177510718	177510835	5	0.01378	0	0.00657	NaN	0.0383	0.45108	0.1076	0.7816	0.9664	
chr5	177510732	177510900	5	0.01079	0	0.00553	NaN	0.03527	0.30036	0.0591	0.6092	0.9532	
chr5	178118100	178118232	5	0.85866	0.9236	0.8388	0.0082	0.85613	0.00348	0.1323	0.0122	0.9714	

FIG. 6 **(Continued)**

chr5	178121613	178121647	5	0.9024	0.9207	0.87525	0.89804	0.9292	0.9858	0.9291	0.9563	0.9392	0.9727	0.9312	0.92503
chr5	178525555	178525618	6	0.96983	0.9721	0.96733	0.95672	0.976	0.9197	0.96583	0.9532	0.9697	0.9545	0.95325	0.95903
chr5	179773133	179773192	6	0.377	0.9739	0.97413	0.9218	0.9695	0.9835	0.94617	0.9553	0.954	0.952	0.80433	0.94744
chr5	179773161	179773192	5	0.3626	0.977	0.9716	0.92052	0.9752	0.9802	0.9402	0.9518	0.9602	0.9502	0.8051	0.94433
chr5	180829433	180829454	2	0.9515	0.9128	0.96775	0	0.937	0.943	0.267	0.9825	0.97	0.9723	0.95925	0.08367
chr5	181327337	181327410	5	0.9718	0.9763	0.9544	0.91756	0.9428	0.896	0.9673	0.9473	0.9656	0.9452	0.9338	0.97797
chr5	181453572	181453639	5	0.9262	0.9647	0.96735	0.94828	0.9492	0.9434	0.9441	0.9162	0.9606	0.9624	0.8723	0.9588
chr6	209706	209729	4	0.94775	0.9473	0.86469	0.9432	0.077	0	0.454	0.9086	0.0255	NaN	0.93812	0.95721
chr6	209711	209770	4	0.96225	0.9211	0.8925	0.91815	0.07325	NaN	0.39438	0.8968	0.0215	NaN	0.92	0.95112
chr6	209726	209770	3	0.963	0.9112	0.89967	0.91427	0.07667	NaN	0.37867	0.8872	0.0247	NaN	0.91267	0.957
chr6	447377	447440	3	0.83267	0.9216	0.86167	0.95093	0.197	0.1107	0.9475	0.9193	0.0903	0.3378	0.876	0.94953
chr6	484434	484674	4	0.95925	0.8788	0.91063	0.9486	NaN	0.274	0.98513	0.9121	0.3765	0.3375	0.93762	0.96667
chr6	498696	498809	3	0.88733	0.8128	0.84867	0.91393	0.14467	0.061	0.9175	0.7558	0.121	0.1742	0.83267	0.94817
chr6	513248	513282	5	0.9592	0.976	0.93365	0.9628	0.9504	0.9552	0.8585	0.2458	0.8742	0.7803	0.9546	0.9684
chr6	2232699	2232769	5	0.952	0.9643	0.9716	0.95344	0.9524	0.8716	0.9698	0.9467	0.9556	0.9609	0.9304	0.95997
chr6	2857375	2857458	4	0.80125	0.9065	0.84494	0.87795	NaN	0.5175	0.94025	0.8121	0.3435	NaN	0.81225	0.94204
chr6	5148881	5148932	2	1	0.9553	0.9625	0.9093	0.9445	0.846	0.975	0.9585	0.4695	0.7863	0.90025	0.93983
chr6	9494487	9494560	7	NaN	0.9821	0.98382	0.94969	0.97757	1	0.98329	0.9608	0.9501	0.9516	0.90129	0.96258
chr6	11705315	11705333	3	0.953	0.9609	0.931	0.9674	0.56767	0.3097	0.95317	0.9578	0.4747	0.6338	0.95	0.97644
chr6	11975712	11975793	3	NaN	0.2806	0.07617	0.01647	0.76033	0.519	0	0.009	0.539	0.2128	0.11033	0.01756
chr6	14713150	14713169	2	0.9155	0.9532	0.95225	0.093	0.9255	0.9395	0.279	0.961	0.896	0.904	0.92875	0.0555
chr6	15023172	15023238	4	0.93025	0.8722	0.80421	0.9402	0.34575	0.2795	0.88662	0.2391	0.0583	0.1001	0.897	0.96338
chr6	15505640	15505720	4	0.93275	0.965	0.95169	0.8781	0.98375	1	0.84813	0.0678	0.961	0.8175	0.99175	0.91942
chr6	15516221	15516230	2	1	0.9725	0.95225	0.95	1	0.983	0.159	0.9663	0.9045	0.9338	0.9505	0.94867
chr6	15526539	15526626	6	0.97683	0.9733	0.97454	0.9517	0.98283	0.9852	0.963	0.8953	0.9715	0.9639	0.95808	0.96769
chr6	17881558	17881649	5	0.9664	0.9769	0.91675	0.00568	0.9324	0.9164	0.1694	0.9367	0.945	0.9473	0.9362	0.0179
chr6	22146618	22146714	7	0.96071	0.0521	0.12064	0.92497	0.03771	0.109	0.88579	0.4965	0.0619	0.1768	0.871	0.9361
chr6	22146638	22146714	6	0.96133	0.0523	0.13317	0.93397	0.03917	0.1153	0.91158	0.5713	0.0658	0.161	0.87475	0.93958
chr6	22146650	22146714	5	0.9648	0.0552	0.15227	0.94444	0.0424	0.1326	0.9265	0.6664	0.0732	0.1912	0.8819	0.94547
chr6	26060468	26060600	6	0.93717	0.9571	0.95008	0.04957	0.9495	0.9548	0.24125	0.7263	0.9407	0.9328	0.90758	0.08528

***FIG. 6* (Continued)**

SUBSTITUTE SHEET (RULE 26)

chr5	178121613	178121647	5	0.91291	0.8082	0.9034	0.174	0.93303	0.02808	0.7255	0.0298	0.9748	
chr5	178525555	178525618	6	0.94939	NaN	0.95972	0.94283	0.95514	0.99158	0.974	0.96667	0.9375	
chr5	179773133	179773192	6	0.92452	0.0815	0.86172	0.9805	0.92564	0.96337	0.97333	0.9435	0.97183	
chr5	179773161	179773192	5	0.926	0.0774	0.85357	0.9766	0.92293	0.96152	0.968	0.9322	0.9714	
chr5	180829433	180829454	2	0.09208	0.9445	0.92717	0.8955	0.60425	0.9638	0.89125	0.9695	0.9035	
chr5	181327337	181327410	5	0.9605	0.898	0.96587	0.9252	0.96207	0.94828	0.9719	0.9696	0.9934	
chr5	181453572	181453639	5	0.95006	0.9518	0.94935	0.9744	0.95587	0.962	0.899	0.9388	0.981	
chr6	209706	209729	4	0.95771	0.9275	0.96483	NaN	0.95654	0.9593	0.09838	0.97825	0.22475	
chr6	209711	209770	4	0.93811	0.937	0.9555	NaN	0.93096	0.94245	0.08313	0.96225	NaN	
chr6	209726	209770	3	0.93105	0.955	0.95133	NaN	0.92361	0.93473	0.07917	0.96467	NaN	
chr6	447377	447440	3	0.94562	0.9413	0.92349	0.80567	0.92016	0.9596	0.3275	0.95733	0.11067	
chr6	484434	484674	4	0.97011	0.96	0.97063	0.579	0.96954	0.9432	0.27762	0.9735	0.38425	
chr6	498696	498809	3	0.958	0.901	0.94944	NaN	0.94178	0.88707	0.15117	0.949	0.18133	
chr6	513248	513282	5	0.95951	0.9492	0.96733	0.9526	0.9661	0.95204	0.9523	0.9322	0.9412	
chr6	2232699	2232769	5	0.95951	0.9366	0.95603	0.04	0.95777	0.68188	0.3846	0.9464	0.9564	
chr6	2857375	2857458	4	0.91739	0.8743	0.89763	0.706	0.92087	0.94115	0.13625	0.974	0.7095	
chr6	5148881	5148932	2	0.97957	0.907	0.9495	0.9285	0.9615	0.9404	0.7615	0.965	0.677	
chr6	9494487	9494560	7	0.9495	0.9651	0.94065	0.94786	0.94647	0.96137	0.899	1	0.994	
chr6	11705315	11705333	3	0.97362	0.947	0.97722	0.81467	0.95622	0.98053	0.56083	0.973	0.90333	
chr6	11975712	11975793	3	0.01448	0	0	0.00889	0.00207	0.055	0.003667	0.557		
chr6	14713150	14713169	2	0.05443	0.987	0.95067	0.964	0.73408	0.9751	0.79025	0.981	0.8645	
chr6	15023172	15023238	4	0.93973	0.909	0.94825	NaN	0.93617	0.90685	0.03575	0.9385	0.3725	
chr6	15505640	15505720	4	0.92989	0.889	0.89304	0.94925	0.90546	0.96015	0.957	0.9905	0.97225	
chr6	15516221	15516230	2	0.92393	0.944	0.95683	0.9285	0.94125	0.9872	0.96825	0.9895	0.9775	
chr6	15526539	15526626	6	0.9665	0.9738	0.96844	0.87	0.97219	0.95197	0.21275	0.97233	0.981	
chr6	17881558	17881649	5	0.02578	0.1546	0.00417	0.975	0.02613	0.96076	0.8761	0.9568	0.9668	
chr6	22146618	22146714	7	0.93698	0.8934	0.92233	0.95071	0.9269	0.95797	0.87571	0.96443	0.06086	
chr6	22146638	22146714	6	0.94371	0.9047	0.92681	0.96017	0.93742	0.9628	0.88475	0.965	0.05967	
chr6	22146650	22146714	5	0.95277	0.9402	0.94047	0.9588	0.9412	0.9712	0.912	0.9684	0.0676	
chr6	26060468	26060600	6	0.08971	0.5758	0.39331	0.90617	0.09504	0.9571	0.90125	0.9675	0.9645	

FIG. 6 **(Continued)**

chr6	26060479	26060600	5	0.9412	0.956	0.9485	0.03628	0.9518	0.9502	0.2035	0.6785	0.933	0.9266	0.9069	0.0702
chr6	27762206	27762225	4	0.9295	0.9516	0.94131	0.941	0.91425	0.4548	0.94137	0.9563	0.9675	0.9626	0.92325	0.89267
chr6	27762218	27762225	2	0.9305	0.958	0.92888	0.9472	0.932	0.458	0.95075	0.9578	0.977	0.9645	0.916	0.89825
chr6	31852026	31852069	5	0.982	0.9462	0.9605	0.95352	NaN	0.9276	0.9657	0.9276	0.9374	0.9648	0.9642	0.96377
chr6	31852077	31852118	5	0.9916	0.954	0.97995	0.94893	0.9758	0.9588	0.9751	0.9615	0.9188	0.9632	0.9505	0.967
chr6	31852092	31852134	5	0.9922	0.9637	0.9737	0.94124	0.955	0.9612	0.9717	0.9448	0.892	0.9457	0.9493	0.95693
chr6	31855185	31855296	6	0.994	0.9778	0.96826	0.9438	0.98983	0.9403	0.95458	0.9744	0.946	0.9733	0.96983	0.96275
chr6	32308413	32308427	2	NaN	0.994	0.85267	0.8526	0.7105	NaN	0.818	0.775	1	0.783	0.92525	0.80779
chr6	32331871	32331901	2	0.9665	0.9608	0.96913	0.05	0.9705	0.9545	0.32675	0.93	0.969	0.9088	0.965	0.37475
chr6	33320536	33320548	2	0.94	0.9223	0.95537	0.062	0.951	0.9315	0.1945	0.9363	0.9255	0.9465	0.94625	0.04817
chr6	35883933	35883986	5	0.9754	0.9749	0.9291	0.96055	0.9472	0.9552	0.8632	0.1456	0.9064	0.5881	0.9456	0.96503
chr6	38938087	38938124	5	0.9604	0.9538	0.95365	0.8976	0.8718	0.9296	0.9594	0.9732	0.9656	0.953	0.9441	0.94337
chr6	38938104	38938124	4	0.9505	0.9563	0.94363	0.8932	0.86925	0.9293	0.96875	0.9719	0.957	0.9536	0.94525	0.94454
chr6	38938109	38938124	3	0.94467	0.9712	0.95517	0.8922	0.86533	0.9183	0.9645	0.9703	0.967	0.9523	0.95467	0.94933
chr6	38938119	38938124	2	0.917	0.9668	0.96075	0.8883	0.862	0.896	0.95675	0.9635	0.975	0.9385	0.955	0.94817
chr6	38938703	38938709	2	1	0.8418	0.89675	0.9084	0.673	0.8355	1	0.9208	0.8915	0.8773	0.9775	0.95792
chr6	42357398	42357434	2	0.9925	0.938	0.92863	0.9496	0.758	0.6545	0.95	0.8055	0.2595	0.1043	0.9315	0.97008
chr6	42373744	42373862	4	0.9215	0.9562	0.9075	0.02165	0.97325	0.94	0.112	0.9333	0.954	0.9205	0.89813	0.04503
chr6	43185460	43185529	4	0.9295	0.0286	0.06419	0.9172	0.01975	0.0453	0.9175	0.6333	0.0518	0.2146	0.8925	0.94587
chr6	43223304	43223335	4	0.97225	0.9246	0.9655	0.9511	0.55625	0.875	0.97525	0.9771	0.8995	0.9285	0.96112	0.9585
chr6	45666130	45666178	4	0.90825	0.9812	0.92194	0.94555	0.68325	0.149	0.91512	0.9243	0.7325	0.6716	0.82888	0.96525
chr6	45666138	45666178	3	0.908	0.9831	0.91967	0.94707	0.657	0.13	0.929	0.9247	0.704	0.6593	0.84117	0.96489
chr6	53172430	53172525	6	0.956	0.9607	0.94875	0.94907	0.9455	0.9423	0.94192	0.9048	0.935	0.9388	0.92442	0.96492
chr6	53172443	53172525	5	0.9654	0.9701	0.96175	0.95152	0.9564	0.9534	0.9464	0.9313	0.9518	0.9555	0.9357	0.9666
chr6	73449908	73450156	5	0.9878	0.9486	0.9034	0.84074	NaN	NaN	0.8729	0.8865	0.1038	0.1971	0.8819	0.86533
chr6	73449925	73450156	4	0.98475	0.9455	0.89919	0.81948	NaN	NaN	0.859	0.8849	0.0913	0.1919	0.88475	0.85042
chr6	73522755	73522824	4	0.98675	0.9603	0.8605	0.94615	0.54125	0.3098	0.92925	0.8401	0.416	0.1864	0.9495	0.93162
chr6	78154861	78154879	2	NaN	0.9	0.88617	0.92912	NaN	0.875	0.95	0.894	1	0.8035	0.667	0.70483
chr6	78860916	78861019	8	0.97025	0.9878	0.95019	0.9589	1	0.9861	0.99362	0.9819	0.9353	0.9593	0.93975	0.96929
chr6	79770063	79770114	7	0.978	0.9778	0.98025	0.97534	0.929	1	0.97529	0.9644	0.9631	0.941	0.91757	0.96476

FIG. 6 **(Continued)**

chr6	26060479	26060600	5	0.06914	0.5	0.3119	0.9092	0.06768	0.96076	0.8971	0.9692	0.9624	
chr6	27762206	27762225	4	0.94511	0.9653	0.91621	0.987	0.95425	0.939	0.94288	0.76325	0.93475	
chr6	27762218	27762225	2	0.94893	0.965	0.92	0.9825	0.96233	0.9546	0.92975	0.7805	0.947	
chr6	31852026	31852069	5	0.96309	0.9444	0.94959	0.96	0.9602	0.96076	0.9368	0.9544	0.9536	
chr6	31852077	31852118	5	0.95103	0.964	0.9582	0.9696	0.95047	0.97121	0.9458	0.9718	0.9732	
chr6	31852092	31852134	5	0.9566	0.9448	0.95097	0.95	0.95323	0.9718	0.9402	0.9648	0.97	
chr6	31855185	31855296	6	0.97676	0.9952	0.97064	0.94017	0.97603	0.97403	0.9435	0.95767	0.96483	
chr6	32308413	32308427	2	0.78372	1	0.83442	0.7175	0.81545	0.82632	0.76575	NaN	1	
chr6	32331871	32331901	2	0.375	0.845	0.95775	NaN	0.21057	0.74883	0.348	0.889	0.9705	
chr6	33320536	33320548	2	0.09621	0.807	0.74742	0.98	0.71333	0.9689	0.8465	0.9805	0.97	
chr6	35883933	35883986	5	0.96774	0.9352	0.96707	0.9542	0.97223	0.96116	0.9196	0.9834	0.9806	
chr6	38938087	38938124	5	0.94957	0.9338	0.9549	0.9674	0.9611	0.97284	0.9846	0.9704	0.2602	
chr6	38938104	38938124	4	0.95018	0.937	0.95321	0.97325	0.95667	0.97305	0.98325	0.96775	0.23975	
chr6	38938109	38938124	3	0.95029	0.9453	0.95539	0.97533	0.96322	0.9682	0.9855	0.96333	0.21567	
chr6	38938119	38938124	2	0.93557	0.918	0.9515	0.98	0.96542	0.9769	0.989	0.954	0.172	
chr6	38938703	38938709	2	0.95907	0.926	0.958	0.926	0.92842	0.961	0.96725	0.986	0.1235	
chr6	42357398	42357434	2	0.96571	0.7025	0.95267	0.909	0.96	0.9811	0.5565	0.972	0.866	
chr6	42373744	42373862	4	0.0357	NaN	0.01554	0.9535	0.05463	0.95075	0.889	0.95825	0.94125	
chr6	43185460	43185529	4	0.95629	0.8778	0.93625	0.899	0.94429	0.95555	0.85737	0.96775	0.0495	
chr6	43223304	43223335	4	0.94718	0.9438	0.94704	0.81675	0.94321	0.95995	0.88512	0.97375	0.22625	
chr6	45666130	45666178	4	0.95436	0.9603	0.95808	0.378	0.94454	0.22625	0.19162	0.14175	0.8415	
chr6	45666138	45666178	3	0.95281	0.947	0.95817	0.393	0.94461	0.23287	0.19067	0.14367	0.838	
chr6	53172430	53172525	6	0.9611	0.9402	0.96125	0.03667	0.95708	0.38025	0.13917	0.96983	0.95667	
chr6	53172443	53172525	5	0.96231	0.947	0.96317	0.0362	0.95947	0.39525	0.1423	0.9766	0.9644	
chr6	73449908	73450156	5	0.87675	0.8806	0.92523	0.5018	0.8528	0.94172	0.1067	0.952	0.7316	
chr6	73449925	73450156	4	0.86483	0.8903	0.92571	0.47175	0.83862	0.93915	0.11175	0.9435	0.73125	
chr6	73522755	73522824	4	0.92704	0.881	0.93667	0.40575	0.93392	0.91305	0.09463	0.9735	0.76525	
chr6	78154861	78154879	2	0.98333	NaN	0.90277	0.9165	0.86942	0.96525	0.75725	NaN	1	
chr6	78860916	78861019	8	0.96873	0.9535	0.97413	0.96362	0.95895	0.97086	0.98794	0.97013	0.95488	
chr6	79770063	79770114	7	0.956	0.987	0.97374	0.97814	0.96395	0.97474	0.92657	1	0.95286	

FIG. 6 **(Continued)**

chr6	88074337	88074396	6	NaN	0.9802	0.93833	0.9832	0.96667	0.9722	0.98608	0.9634	0.9773	0.9419	0.8825	0.97217
chr6	88074345	88074411	6	0.9335	0.9786	0.94779	0.9743	0.95683	0.95	0.99583	0.9413	0.9698	0.935	0.88367	0.97597
chr6	88714598	88714665	6	NaN	0.9903	0.97876	0.96827	1	0.9415	1	0.9518	0.964	0.9739	0.96733	0.9639
chr6	98935648	98935722	8	0.98162	0.9607	0.98656	0.96568	1	0.9721	0.97212	0.9649	0.9844	0.9732	0.96106	0.97692
chr6	99484601	99485057	5	0.9474	0.9875	0.96565	0.91784	0.924	0.968	0.9071	0.9614	0.9292	0.9771	0.9524	0.94287
chr6	99484625	99485057	4	0.94425	0.9878	0.96775	0.901	0.91425	0.9665	0.8975	0.9571	0.9255	0.9714	0.9565	0.93642
chr6	106126382	106126400	3	0.93333	0.9029	0.87758	0.015	0.21467	0.347	0.21933	0.869	NaN	0.2753	0.95783	0.15961
chr6	106143793	106143809	4	0.974	0.7818	0.28013	0.9579	0.93875	0.9375	0.83062	0.0175	0.9325	0.669	0.93175	0.97475
chr6	106155586	106155743	6	0.90683	0.9755	0.95771	0.08191	0.9785	0.9673	0.13833	0.9683	0.9562	0.9733	0.90442	0.13281
chr6	108823727	108823778	5	0.97	0.9789	0.97025	0.08316	0.9756	0.9272	0.2775	0.9249	0.9626	0.9455	0.9578	0.15152
chr6	109046239	109046275	5	NaN	0.9802	0.972	0.972	0.98	1	0.9938	0.9857	1	0.9929	0.9806	0.98777
chr6	109445898	109445939	2	0.9635	0.9708	0.98263	0.8926	0.9775	0.9405	0.3735	0.95	0.981	0.938	0.92325	0.92583
chr6	110811441	110811545	6	0.95767	0.9686	0.97617	0.93157	1	0.9432	0.95517	0.9471	0.981	0.9734	0.94842	0.96672
chr6	111741835	111741873	2	1	0.9603	0.87862	0.9452	0.9715	0.918	0.882	0.0308	0.8365	0.0858	0.91025	0.96708
chr6	113644058	113644197	6	0.9395	0.9801	0.97071	0.9655	0.9705	0.9303	0.94133	0.943	0.9178	0.9448	0.94542	0.97069
chr6	122163520	122163568	6	0.91	0.9786	0.97375	0.95453	0.92683	0.8768	0.98208	0.9624	0.974	0.9589	0.948	0.95261
chr6	129697072	129697084	2	0.98	0.987	0.96762	0.3886	0.9805	0.979	0.28425	0.9388	0.945	0.9658	0.949	0.12983
chr6	137877821	137877912	3	0.96333	0.9673	0.95328	0.91953	0.722	0.9267	0.966	0.9688	0.9143	0.9587	0.89067	0.94939
chr6	137877844	137877912	2	0.975	0.9745	0.95779	0.9055	0.7715	0.9215	0.9535	0.9748	0.944	0.9735	0.9025	0.93908
chr6	138670461	138670524	5	0.9428	0.9728	0.98535	0.9375	0.9376	0.891	0.9731	0.9534	1	0.9406	0.945	0.96717
chr6	138870718	138870748	4	0.98525	0.9276	0.934	0.9219	0.25475	0.562	0.97037	0.8971	0.3718	0.6509	0.93037	0.94987
chr6	142774480	142774575	3	0.95	0.9117	0.94517	0.94927	0.41533	0.8633	0.9465	0.8627	0.4003	0.9222	0.91633	0.97061
chr6	142774500	142774604	3	0.95967	0.9082	0.95133	0.94647	0.449	0.8783	0.95383	0.923	0.3803	0.9277	0.91583	0.97006
chr6	144775522	144775606	4	0.9775	0.9823	0.946	0.87215	0.97125	0.9888	0.933	0.9705	0.9663	0.9616	0.95	0.90625
chr6	148379113	148379123	2	0.927	0.9472	0.94588	0.3708	0.7395	0.75	0.7605	0.9075	0.804	0.8815	0.8045	0.7885
chr6	148611436	148611466	2	0.9465	0.9708	0.95725	0.7321	0.9335	0.9315	0.27675	0.935	0.9115	0.9045	0.8685	0.83292
chr6	149316118	149316144	2	1	0.9275	0.84275	1	1	1	1	0.8953	NaN	0.9545	1	0.83333
chr6	149480603	149480725	6	0.95717	0.9778	0.98308	0.9589	0.5185	0.44	0.96808	0.9652	0.5282	0.979	0.97725	0.96216
chr6	149480666	149480725	5	0.9584	0.9755	0.9811	0.9592	0.4736	0.44	0.9704	0.9627	0.5156	0.9748	0.9753	0.96115
chr6	149480689	149480894	6	0.97367	0.9433	0.97162	0.93037	0.33033	0.353	0.95475	0.9748	0.5152	0.9296	0.98225	0.95964

FIG. 6 **(Continued)**

chr6	88074337	88074396	6	0.97	0.9888	0.95847	1	0.96006	0.9888	0.93025	0.89883	1	
chr6	88074345	88074411	6	0.94962	0.979	0.97781	0.99517	0.96158	0.97903	0.95058	0.90117	0.9805	
chr6	88714598	88714665	6	0.97693	0.9627	0.9662	0.99433	0.9585	0.98078	0.94733	0.97083	0.96883	
chr6	98935648	98935722	8	0.97921	0.9188	0.95948	0.91225	0.97069	0.96768	0.972	0.96137	1	
chr6	99484601	99485057	5	0.93766	0.9148	0.94697	NaN	0.93423	0.03528	0.1156	0.9654	0.9712	
chr6	99484625	99485057	4	0.93257	0.901	0.94283	NaN	0.92675	0.01285	0.0955	0.96125	0.973	
chr6	106126382	106126400	3	0.41983	0.889	0.91494	NaN	0.83028	0.89693	0.0935	0.98867	NaN	
chr6	106143793	106143809	4	0.94829	0.9445	0.96442	0.971	0.94854	0.96985	0.97025	0.994	0.9365	
chr6	106155586	106155743	6	0.10564	0.6907	0.70106	0.92717	0.11844	0.96667	0.92767	0.96867	0.96133	
chr6	108823727	108823778	5	0.13855	0.9788	0.9706	0.9662	0.0893	0.97232	0.8674	0.9762	0.962	
chr6	109046239	109046275	5	0.98036	0.975	0.98853	0.956	0.98867	0.99436	0.9496	1	0.9778	
chr6	109445898	109445939	2	0.90929	0.938	0.94692	0.9105	0.91275	0.9788	0.90175	0.9515	0.955	
chr6	110811441	110811545	6	0.94914	0.9603	0.97003	0.063	0.97378	0.41017	0.08725	0.473	0.99183	
chr6	111741835	111741873	2	0.95836	0.9305	0.92058	0.885	0.95467	0.9136	0.58475	0.966	0.972	
chr6	113644058	113644197	6	0.95743	0.9588	0.95336	0.79617	0.95806	0.94111	0.20158	0.98017	0.95333	
chr6	122163520	122163568	6	0.96081	0.949	0.94962	0.9675	0.95025	0.97053	0.90092	0.96483	0.91333	
chr6	129697072	129697084	2	0.16021	0.4595	0.73525	0.98	0.80192	0.97175	0.9535	0.9845	0.969	
chr6	137877821	137877912	3	0.95138	0.965	0.96333	0.949	0.96039	0.97977	0.66967	0.979	0.29733	
chr6	137877844	137877912	2	0.94071	0.9545	0.96775	0.9435	0.95675	0.98105	0.69075	0.9765	0.317	
chr6	138670461	138670524	5	0.964	0.9914	0.96245	0.924	0.93418	0.95858	0.9374	0.9328	0.967	
chr6	138870718	138870748	4	0.9495	0.9515	0.95533	0.0615	0.95967	0.7244	0.07538	0.9935	0.21225	
chr6	142774480	142774575	3	0.96619	0.961	0.96272	0.972	0.95958	0.9644	0.97517	0.98467	0.63033	
chr6	142774500	142774604	3	0.97029	0.9737	0.96456	0.96533	0.96058	0.97107	0.9805	0.98233	0.70233	
chr6	144775522	144775606	4	0.92107	NaN	0.0064	0.95175	0.84453	0.96959	0.91338	0.96925	0.97375	
chr6	148379113	148379123	2	0.82936	0.9285	0.92708	0.833	0.93125	0.9556	0.6385	0.9925	0.8665	
chr6	148611436	148611466	2	0.85271	0.909	0.93575	0.964	0.96417	0.9707	0.89425	0.9675	0.9795	
chr6	149316118	149316144	2	0.81837	1	0.89375	0.9375	0.91817	0.9144	0.8305	0.982	0.95	
chr6	149480603	149480725	6	0.96012	0.9402	0.95547	0.80217	0.95789	0.92367	0.2445	0.943	0.14133	
chr6	149480666	149480725	5	0.96086	0.9342	0.95197	0.7886	0.95413	0.92056	0.255	0.9356	0.1062	
chr6	149480689	149480894	6	0.96855	0.9402	0.94972	0.41733	0.94386	0.52183	0.21192	0.87717	0.19267	

FIG. 6 (Continued)

chr6	149480722	149480894	4	0.9605	0.926	0.96375	0.92355	0.29875	0.353	0.94362	0.976	0.5318	0.9183	0.98075	0.96242
chr6	150063032	150063105	8	0.98638	0.9896	0.96091	0.9566	0.92163	0.9834	0.98006	0.9671	0.9773	0.9539	0.94425	0.97548
chr6	150063070	150063105	5	0.9782	0.9905	0.96385	0.95464	0.9214	1	0.9809	0.9606	0.9894	0.9615	0.9754	0.97123
chr6	150168456	150168513	5	0.9554	0.9583	0.93042	0.93628	0.9048	0.9702	0.9837	0.9206	0.9054	0.9589	0.952	0.97373
chr6	155295192	155295240	5	0.96	0.9828	0.9636	0.97856	0.9778	1	0.9576	0.9489	0.9532	0.9416	1	0.97329
chr6	155421567	155421700	6	0.98033	0.9551	0.96113	0.93513	0.98317	0.9628	0.94775	0.9419	0.9447	0.9553	0.90558	0.97147
chr6	156588981	156589054	7	0.96157	0.9797	0.97664	0.9634	0.94729	0.987	0.98571	0.9365	0.91	0.9495	0.94571	0.98405
chr6	157224430	157224545	6	0.9635	0.9765	0.95821	0.92077	0.9755	0.9272	0.9005	0.9597	0.9357	0.9228	0.91108	0.96172
chr6	157224445	157224545	5	0.9764	0.9806	0.95925	0.93304	0.9772	0.9396	0.9138	0.9631	0.9518	0.9328	0.9184	0.97
chr6	157393120	157393170	4	0.9095	0.9687	0.98387	0.95755	0.96175	0.9645	0.92075	0.9698	0.9713	0.9586	0.11038	0.96413
chr6	158028664	158028723	5	0.9804	0.9735	0.952	0.90788	0.9462	0.9826	0.9453	0.9559	0.965	0.966	0.9101	0.92329
chr6	158564989	158565014	4	0.962	0.9678	0.57663	0.91975	0.854	0.479	0.88525	0.0163	0.4733	0.1264	0.962	0.948
chr6	158707303	158707331	3	0.91967	0.9653	0.95633	0.89313	0.971	0.982	0.9515	0.9383	0.9677	0.988	0.21383	0.94661
chr6	161117513	161117578	5	0.9714	0.9677	0.9514	0.00215	0.977	0.9552	0.2261	0.9792	0.9824	0.9726	0.9237	0.01597
chr6	163344725	163344766	5	0.926	0.9696	0.9542	0.13205	0.9742	0.977	0.3165	0.9762	0.944	0.9545	0.9214	0.2391
chr6	166417106	166417135	3	0.94567	0.9063	0.84783	0.94573	0.86367	0.7787	0.93983	0.6013	0.5963	0.1687	0.79967	0.97028
chr6	166763734	166763765	5	0.953	0.9757	0.9664	0.92196	0.9598	0.96	0.9141	0.9426	0.9562	0.9409	0.961	0.92177
chr6	168252908	168252956	6	0.9495	0.9649	0.97629	0.97337	1	NaN	0.95425	0.9699	0.8993	0.9861	0.92775	0.94469
chr6	169765919	169765994	5	0.943	0.9795	0.9302	0.11584	0.979	0.908	0.2461	0.9369	0.9766	0.9783	0.8652	0.12024
chr6	170267331	170267373	5	0.9112	0.9615	0.95283	0.93416	1	0.9334	0.9651	0.9453	0.935	0.9276	0.8943	0.9524
chr7	950242	950289	5	0.9506	0.9668	0.95875	0.92424	0.942	0.9252	0.9171	0.909	0.8952	0.9363	0.9049	0.94103
chr7	1023241	1023323	8	0.97975	0.9667	0.96722	0.9448	0.96425	0.9683	0.92719	0.9329	0.9395	0.9568	0.97025	0.9615
chr7	1033621	1033703	6	0.95	0.0536	0.06221	0.8998	0.0375	0	0.83408	0.0041	0.0118	0	0.92783	0.92439
chr7	1033655	1033703	5	0.9606	0.0527	0.05565	0.90484	0.0366	0	0.841	0.0021	0.0084	0	0.9297	0.91847
chr7	1103092	1103131	5	0.9544	0.9655	0.9158	0.93508	0.816	0.7014	0.8866	0.8441	0.4798	0.1723	0.929	0.94367
chr7	1103115	1103131	4	0.9575	0.9664	0.90637	0.9434	0.78875	0.6755	0.87975	0.8298	0.4375	0.1195	0.93362	0.94875
chr7	1916477	1916487	2	0.971	0.9733	0.98562	0.1627	0.991	0.972	0.199	0.9528	0.991	0.9498	0.9435	0.1698
chr7	2085355	2085396	4	0.99175	0.7531	0.4	0.93925	0.94575	0.9138	0.90063	0.5898	0.9278	0.8899	0.97275	0.97158
chr7	2168232	2168378	4	0.9705	0.3941	0.62521	0.96125	0.32125	0.5808	0.9695	0.9294	0.6883	0.8931	0.90863	0.96825
chr7	2327054	2327068	2	1	0.9822	0.95663	0.9359	0.976	0.986	0.43375	0.9363	0.974	0.9698	0.98325	0.95275

***FIG. 6* (Continued)**

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chr6	149480722	149480894	4	0.96279	0.9495	0.9435	0.306	0.93988	0.32105	0.21013	0.84	0.264
chr6	150063032	150063105	8	0.9688	0.949	0.96379	0.98462	0.97452	0.96343	0.92319	0.98525	0.9765
chr6	150063070	150063105	5	0.97654	0.9386	0.96193	0.9874	0.97457	0.96732	0.9193	1	0.9624
chr6	150168456	150168513	5	0.94743	0.972	0.95313	0.0498	0.95613	0.8806	0.1868	0.9712	0.9344
chr6	155295192	155295240	5	0.96586	0.98	0.966	NaN	0.96103	0.95952	0.982	0.9574	0.977
chr6	155421567	155421700	6	0.97364	0.9702	0.96161	NaN	0.94661	0.10737	0.16542	0.0745	0.96067
chr6	156588981	156589054	7	0.96531	0.9836	0.96413	0.942	0.98419	0.96797	0.8775	0.99286	0.94557
chr6	157224430	157224545	6	0.94926	0.9693	0.94389	0.0135	0.95075	0.0337	0.10925	0.057333	0.957
chr6	157224445	157224545	5	0.95757	0.9738	0.96043	0.0162	0.96567	0.04044	0.1212	0.0662	0.9718
chr6	157393120	157393170	4	0.94904	0.9753	0.93079	0.966	0.94575	0.96615	0.96825	0.984	0.94925
chr6	158028664	158028723	5	0.91586	0.851	0.01793	0.9586	0.90337	0.94968	0.9354	0.9702	0.9784
chr6	158564989	158565014	4	0.95089	0.8555	0.86375	0.97325	0.93408	0.97215	0.93412	0.96975	0.89875
chr6	158707303	158707331	3	0.93586	0.153	0.969	0.991	0.96467	0.96767	0.92467	0.96733	0.96433
chr6	161117513	161117578	5	0.01047	0.0552	0.0017	0.9498	0.0332	0.98516	0.9219	0.9784	0.951
chr6	163344725	163344766	5	0.21934	0.867	0.13433	0.9592	0.08331	0.97264	0.9132	0.9664	0.9624
chr6	166417106	166417135	3	0.97029	0.9633	0.97822	0.99033	0.95506	0.9726	0.8895	0.988	0.88467
chr6	166763734	166763765	5	0.92789	0.028	0.33483	0.9512	0.90483	0.96696	0.9318	0.975	0.9804
chr6	168252908	168252956	6	0.9556	0.9667	0.96774	0.94383	0.94797	0.97393	0.939	0.95483	0.9635
chr6	169765919	169765994	5	0.13398	0.0256	0.0062	0.962	0.09377	0.95808	0.9172	NaN	0.9664
chr6	170267331	170267373	5	0.96217	1	0.92613	0.9414	0.96063	0.9538	0.9264	NaN	0.9634
chr7	950242	950289	5	0.92323	0.9542	0.95987	0.1016	0.9387	0.91932	0.2031	0.9608	0.9514
chr7	1023241	1023323	8	0.95836	0.9355	0.95058	0.00288	0.96273	0.0452	0.08838	0.53013	0.96113
chr7	1033621	1033703	6	0.93045	0.8263	0.88006	0.803	0.89267	0.93623	0.24367	0.957	0.0225
chr7	1033655	1033703	5	0.93	0.8228	0.87453	0.7902	0.88893	0.93344	0.2088	0.9584	0.027
chr7	1103092	1103131	5	0.92131	0.9756	0.95203	0.3886	0.92713	0.92516	0.0648	0.9654	0.9042
chr7	1103115	1103131	4	0.9205	0.982	0.95796	0.29925	0.92783	0.9166	0.03463	0.96625	0.91525
chr7	1916477	1916487	2	0.11147	0.992	0.96292	0.957	0.74917	0.9764	0.91375	0.971	0.96
chr7	2085355	2085396	4	0.96189	0.943	0.95021	0.94725	0.96504	0.96855	0.968	0.98125	0.9135
chr7	2168232	2168378	4	0.96082	0.9658	0.969	0.86625	0.94746	0.95985	0.6635	0.94725	0.466
chr7	2327054	2327068	2	0.93536	0.9835	0.97067	0.961	0.97358	0.974	0.8965	0.9775	0.9

***FIG. 6* (Continued)**

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chr7	2362662	2362704	5	0.9694	0.9805	0.95455	0.9386	0.9596	0.976	0.9008	0.2237	0.9626	0.9296	0.9669	0.97653
chr7	2362823	2362973	4	0.935	0.9778	0.94712	0.9448	0.9745	0.943	0.91312	0.1791	0.953	0.8771	0.96	0.97396
chr7	2789195	2789238	5	0.9894	0.9761	0.9448	0.96095	0.9792	0.909	0.9687	0.9809	0.9866	0.9831	0.942	0.98045
chr7	2820585	2820607	2	0.9085	0.96	0.95712	0.05528	0.9415	0.9765	0.6305	0.9458	0.953	0.9705	0.91875	0.10317
chr7	2908272	2908320	5	1	0.9878	0.9681	0.96532	0.9538	0.9696	0.9547	0.9439	0.9826	0.9515	0.9646	0.9648
chr7	3039966	3040072	4	0.95825	0.9287	0.92319	0.9449	0.474	0.0875	0.949	0.9098	0.7298	0.926	0.91837	0.95658
chr7	4739710	4739736	4	0.95925	0.2627	0.73037	0.9439	0.4475	0.862	0.94837	0.9351	0.5753	0.9265	0.9385	0.9525
chr7	5506308	5506381	5	0.9116	0.982	0.94235	0.01436	0.9658	0.9536	0.1722	0.9476	0.9418	0.957	0.9285	0.05203
chr7	6421539	6421571	6	0.96367	0.9747	0.97363	0.96667	0.977	0.9555	0.9705	0.9839	0.9797	0.965	0.96817	0.96061
chr7	6434226	6434348	6	0.95267	0.9643	0.91963	0.11031	0.96267	0.98	0.1805	0.9768	0.9937	0.9638	0.95708	0.09321
chr7	6434266	6434348	5	0.9432	0.9619	0.91875	0.10242	0.9552	0.976	0.1736	0.9722	0.9924	0.9717	0.9641	0.08855
chr7	6582539	6582593	5	0.9824	0.9767	0.9633	0.92804	0.9724	0.9882	0.9618	0.9839	0.968	0.978	0.9548	0.9584
chr7	10113452	10113508	5	1	0.9855	0.9444	0.95487	0.9752	0.968	0.9013	0.9735	0.9808	0.9583	0.8782	0.9413
chr7	14188466	14188522	5	0.9778	0.9933	0.98125	0.98972	1	1	0.9554	0.964	0.9694	0.955	0.9317	0.9782
chr7	16668135	16668323	6	0.9405	0.9751	0.93	0.01107	0.96317	0.9315	0.15517	0.9445	0.9612	0.9408	0.91625	0.03075
chr7	16668186	16668323	5	0.9386	0.9715	0.93045	0.00632	0.9644	0.9308	0.1477	0.9391	0.9582	0.9353	0.9163	0.01817
chr7	21900987	21901078	5	0.9868	0.9744	0.96865	0.94864	0.968	0.9616	0.9777	0.98	0.9506	0.9784	0.9458	0.97063
chr7	21930611	21930675	4	0.99225	0.9706	0.95375	0.9109	0.96875	0.9845	0.9465	0.9544	0.976	0.9613	0.94637	0.94004
chr7	22290560	22290615	5	0.9834	0.9768	0.9849	0.97924	0.9914	0.9714	0.9752	0.9755	0.9482	0.9875	0.9487	0.978
chr7	22709783	22709834	5	0.9654	0.9759	0.9706	0.929	0.9846	0.951	0.932	0.9641	0.953	0.9571	0.9546	0.9638
chr7	24932847	24933125	8	0.97975	0.9722	0.97331	0.95245	0.96212	0.9879	0.94887	0.9544	0.9544	0.9718	0.95206	0.97515
chr7	24932964	24933119	5	0.9802	0.9707	0.98325	0.96316	0.9818	0.9846	0.9556	0.9691	0.953	0.9893	0.9667	0.97407
chr7	24932993	24933125	5	0.9676	0.9796	0.97905	0.9586	0.9714	0.9846	0.951	0.9621	0.9594	0.9881	0.9723	0.97307
chr7	25028585	25028604	3	0.94633	0.8248	0.915	0.9588	0.181	0.4197	0.96483	0.9107	0.223	0.6478	0.887	0.97611
chr7	27110753	27110981	14	0.94193	0.963	0.94734	0.93884	0.96657	0.9487	0.97511	0.9661	0.9451	0.9467	0.93007	0.96346
chr7	27110769	27110798	5	0.978	0.9705	0.9523	0.93056	0.9728	0.9446	0.9787	0.9772	0.9854	0.9634	0.9649	0.9662
chr7	27110776	27110800	5	0.9704	0.9651	0.95595	0.92548	0.9712	0.9632	0.9828	0.9848	0.9816	0.9726	0.9645	0.9674
chr7	27110875	27110959	6	0.91033	0.958	0.93812	0.94387	0.96667	0.9518	0.96883	0.9513	0.9073	0.9325	0.90842	0.96031
chr7	30590813	30590861	6	0.93917	0.9859	0.95272	0.94843	0.9445	0.9872	0.9755	0.9689	0.9733	0.9658	0.95167	0.938
chr7	30798640	30798742	5	0.9586	0.9612	0.96285	0.94656	0.9494	0.9434	0.9641	0.9379	0.929	0.9207	0.8995	0.94927

FIG. 6 **(Continued)**

chr7	2362662	2362704	5	0.97589	0.9794	0.97827	0.9686	0.97632	0.98216	0.9706	0.9804	0.968	
chr7	2362823	2362973	4	0.97721	0.947	0.95808	0.96875	0.96571	0.9718	0.92638	0.9575	0.97625	
chr7	2789195	2789238	5	0.95219	0.9888	0.9777	0.941	0.96632	0.96832	0.9742	0.9866	0.9682	
chr7	2820585	2820607	2	0.10014	0.9025	0.87467	0.9555	0.86742	0.9637	0.94275	0.9925	0.969	
chr7	2908272	2908320	5	0.96883	0.9844	0.97007	0.3104	0.958	0.01668	0.6228	0.1074	0.9698	
chr7	3039966	3040072	4	0.97075	0.9478	0.94692	0.25875	0.95808	0.94775	0.1205	0.9855	0.7195	
chr7	4739710	4739736	4	0.94614	0.898	0.94788	0.96225	0.94704	0.9511	0.82337	0.96125	0.3655	
chr7	5506308	5506381	5	0.05263	0.696	0.37509	0.9656	0.00692	0.96268	0.9202	0.979	0.941	
chr7	6421539	6421571	6	0.95769	0.9908	0.96917	0.9455	0.94136	0.97917	0.98025	0.95717	0.98167	
chr7	6434226	6434348	6	0.06625	NaN	0.05747	0.96867	0.08769	0.9697	0.9535	0.98417	0.98367	
chr7	6434266	6434348	5	0.06975	NaN	0.0523	0.9624	0.08647	0.9666	0.9543	0.981	0.9856	
chr7	6582539	6582593	5	0.95057	0.9534	0.97293	0.0626	0.95603	0.85128	0.4513	0.9272	0.9696	
chr7	10113452	10113508	5	0.95771	0.959	0.94023	0.9406	0.92497	0.9711	0.9316	0.956	0.9914	
chr7	14188466	14188522	5	0.9614	0.9876	0.93133	0.9692	0.95593	0.96688	0.8831	NaN	0.9366	
chr7	16668135	16668323	6	0.03293	0.01	0.03578	0.956	0.04961	0.9738	0.86558	0.9755	0.96683	
chr7	16668186	16668323	5	0.02103	0.0052	0.0135	0.9472	0.0311	0.97472	0.8483	0.9736	0.9602	
chr7	21900987	21901078	5	0.9716	0.0946	0.96777	0.9564	0.96257	0.98024	0.9716	0.9818	0.957	
chr7	21930611	21930675	4	0.93182	0.1143	0.02358	NaN	0.89571	0.95845	0.95525	0.95975	0.964	
chr7	22290560	22290615	5	0.95771	0.9176	0.9586	0.9728	0.9779	0.97269	0.9556	0.9934	0.9542	
chr7	22709783	22709834	5	0.96009	0.9556	0.9361	0.1874	0.95557	0.90908	0.7591	0.9746	0.9612	
chr7	24932847	24933125	8	0.96595	0.9773	0.95315	NaN	0.96544	0.01999	0.13	0.016	0.95813	
chr7	24932964	24933119	5	0.96886	0.9792	0.96203	NaN	0.9731	0.0073	0.1431	0	0.9634	
chr7	24932993	24933125	5	0.96554	0.992	0.96553	NaN	0.97013	0.0085	0.1521	0	0.9534	
chr7	25028585	25028604	3	0.96405	0.9647	0.96583	0.991	0.96344	0.96547	0.94517	0.96233	0.25367	
chr7	27110753	27110981	14	0.96976	0.9766	0.95704	0.95393	0.96782	0.96879	0.93311	0.97764	0.96007	
chr7	27110769	27110798	5	0.97046	0.9968	0.9629	0.9632	0.97003	0.9702	0.9693	0.9774	0.9724	
chr7	27110776	27110800	5	0.97686	0.9962	0.96373	0.9718	0.97133	0.96668	0.9789	0.983	0.9798	
chr7	27110875	27110959	6	0.96698	0.9613	0.94869	0.93217	0.96444	0.9731	0.88667	0.97167	0.946	
chr7	30590813	30590861	6	0.97607	0.9358	0.94822	0.976	0.98125	0.979	0.93358	0.97267	0.96567	
chr7	30798640	30798742	5	0.94891	0.9292	0.93983	0.107	0.9505	0.88304	0.1057	0.9586	0.9554	

FIG. 6 **(Continued)**

chr7	43634349	43634451	3	0.94867	0.9947	0.42967	0.96807	0.95	1	0.97133	0.8665	0.9157	0.9255	0.96267	0.9665			
chr7	53414749	53414832	8	0.9495	0.969	0.97292	0.96442	0.92488	1	0.96888	0.9614	NaN	0.9617	0.93625	0.94889			
chr7	53414781	53414832	5	0.9834	0.9889	0.97915	0.955	0.9246	1	0.9656	0.9653	0.9	0.9864	0.9312	0.94276			
chr7	55469166	55469210	4	0.953	0.1647	0.27756	0.93205	0.17275	0.3803	0.95913	0.8933	0.3615	0.6878	0.912	0.97021			
chr7	55469189	55469210	3	0.958	0.105	0.22975	0.93207	0.179	0.396	0.95517	0.8993	0.3813	0.7113	0.91567	0.96894			
chr7	55971189	55971285	4	0.9415	0.9623	0.97163	0.9505	0.94325	0.955	0.96075	0.8811	0.956	0.9466	0.08013	0.956			
chr7	56286092	56286148	5	0.8926	0.9487	0.9718	0.95462	1	1	0.9508	0.9732	0.9776	0.9483	0.8528	0.95123			
chr7	69872004	69872022	4	0.93325	0.9641	0.97313	0.93575	0.9045	0.9158	0.97362	0.9749	0.9473	0.9555	0.1055	0.9775			
chr7	69872008	69872022	3	0.92867	0.9558	0.97275	0.92973	0.91067	0.9257	0.97733	0.9743	0.9543	0.956	0.09083	0.98383			
chr7	71102331	71102379	6	0.93033	0.9774	0.97025	0.95323	NaN	0.9897	0.93833	0.9671	0.9938	0.9519	0.90225	0.97921			
chr7	72619508	72619574	6	0.95117	0.9645	0.99012	0.9682	0.97583	0.9142	0.99242	0.9786	0.9778	0.9391	0.94433	0.97931			
chr7	72807009	72807060	2	1	0.9445	0.94283	0.10417	1	1	0.41675	1	0.9445	0.95	1	0.21642			
chr7	74098118	74098149	2	0.8845	0.9667	0.94875	0.0088	0.93	0.9375	0.2055	0.948	0.8985	0.8793	0.888	0.0955			
chr7	74121614	74121723	5	0.9836	0.984	0.9724	0.94344	0.9656	0.9566	0.9465	0.954	0.945	0.974	0.9446	0.96987			
chr7	74151468	74151542	4	0.94075	0.9613	0.98487	0.95315	0.90275	0.9613	0.94375	0.9639	0.9485	0.9184	0.90887	0.97104			
chr7	74202007	74202066	5	1	0.9867	0.97548	0.9602	0.9242	0.914	0.9567	0.9616	0.963	0.9374	0.9223	0.9726			
chr7	74202015	74202072	5	1	0.9783	0.96823	0.95256	0.9366	0.911	0.977	0.9516	0.9488	0.9399	0.9356	0.97612			
chr7	74317918	74317997	5	0.9624	0.9519	0.97195	0.9158	0.9406	0.8912	0.9686	0.9429	0.9	0.9156	0.8907	0.95197			
chr7	74661137	74661167	4	0.74875	0.081	0.04031	0	0.0695	0.1405	0.00263	0.0038	0.012	0.0084	0.56375	0.004			
chr7	74666847	74666936	4	0.9465	0.9203	0.925	0.9569	0.89675	0.9668	0.903	0.3506	0.91	0.8356	0.92625	0.95267			
chr7	74692104	74692145	5	0.9232	0.9653	0.97875	0.93996	0.9266	0.9498	0.9725	0.9655	0.9786	0.9634	0.9506	0.96513			
chr7	74987023	74987164	5	NaN	0.9853	0.95315	0.93469	0.9204	0.9492	0.9832	0.9412	0.9638	0.9573	0.9668	0.9813			
chr7	75000951	75001164	5	0.9578	0.9716	0.9699	0.9418	0.9704	0.9534	0.9557	0.9489	0.9424	0.9409	0.9285	0.92977			
chr7	75003843	75004009	6	0.95333	0.9787	0.96567	0.94473	0.96367	0.9782	0.9345	0.9714	0.975	0.9435	0.93958	0.96292			
chr7	75005612	75005902	6	0.98967	0.9766	0.96404	0.9408	0.91983	0.934	0.965	0.9797	0.9297	0.9514	0.922	0.97369			
chr7	75009116	75009294	5	0.9488	0.9645	0.9762	0.9642	0.9394	0.9538	0.956	0.9026	0.948	0.9328	0.8781	0.95639			
chr7	75011595	75011693	7	0.94157	0.9599	0.94994	0.94714	0.96671	0.9367	0.96221	0.9674	0.9011	0.9231	0.91443	0.95705			
chr7	75015709	75015839	8	0.96737	0.9711	0.95028	0.94758	0.933	0.9429	0.97612	0.957	0.9505	0.9514	0.91725	0.96358			
chr7	75015749	75015839	7	0.96957	0.9723	0.95418	0.94991	0.93529	0.9347	0.97271	0.9509	0.9476	0.9444	0.92229	0.96652			
chr7	75017099	75017188	6	0.9615	0.9679	0.96962	0.95463	0.94933	0.9877	0.97108	0.9612	0.978	0.9602	0.93983	0.95581			

FIG. 6 **(Continued)**

chr7	43634349	43634451	3	0.98057	0.9363	0.95767	0.924	0.95556	0.96447	0.915	0.97667	0.96767
chr7	53414749	53414832	8	0.9558	0.9778	0.94615	0.94887	0.95627	0.95306	0.95	0.97675	0.97313
chr7	53414781	53414832	5	0.96183	1	0.95327	0.97	0.95347	0.93742	0.9536	1	0.9712
chr7	55469166	55469210	4	0.96664	0.9725	0.95371	0.667	0.95775	0.91125	0.839	0.94225	0.08325
chr7	55469189	55469210	3	0.96452	0.9753	0.9535	0.65033	0.95828	0.90047	0.846	0.938	0.09467
chr7	55971189	55971285	4	0.95329	0.9175	0.95629	0.9605	0.96367	0.9672	0.91338	0.993	0.95675
chr7	56286092	56286148	5	0.95234	NaN	0.948	0.9862	0.9644	0.95355	0.9275	1	0.9742
chr7	69872004	69872022	4	0.94293	0.8863	0.94796	0.962	0.96804	0.97565	0.92938	0.991	0.9395
chr7	69872008	69872022	3	0.9459	0.8787	0.9445	0.96367	0.96711	0.975	0.92483	0.988	0.93467
chr7	71102331	71102379	6	0.9559	0.9525	0.95543	0.95917	0.9725	0.9821	0.97083	0.97067	0.93683
chr7	72619508	72619574	6	0.95021	0.9443	0.95122	0.98617	0.97261	0.98857	0.97567	0.9675	0.91367
chr7	72807009	72807060	2	0.5	NaN	0.0111	NaN	0.1351	0.9743	0.9625	0.932	1
chr7	74098118	74098149	2	0.08057	0.8925	0.87567	0.771	0.86825	0.9651	0.52525	0.985	0.9675
chr7	74121614	74121723	5	0.97129	0.9706	0.9555	0.4252	0.96803	0.23076	0.5265	0.134	0.969
chr7	74151468	74151542	4	0.96493	0.9625	0.96788	0.039	0.96071	0.0038	0.074	0.00625	0.97225
chr7	74202007	74202066	5	0.95174	0.9858	0.92237	0.991	0.95645	0.98904	0.9817	1	0.9566
chr7	74202015	74202072	5	0.96274	1	0.92477	0.9792	0.95082	0.99412	0.9806	1	0.9666
chr7	74317918	74317997	5	0.96011	0.9622	0.94437	0.1336	0.95363	0.8712	0.0753	0.9924	0.8928
chr7	74661137	74661167	4	0.00368	0.0045	0.00125	0	0.00183	0.0059	0.0105	0.78275	0.01
chr7	74666847	74666936	4	0.96154	0.9213	0.94433	0.11075	0.95433	0.1723	0.42262	0.95025	0.89525
chr7	74692104	74692145	5	0.94123	0.0976	0.95407	0.9442	0.95297	0.95604	0.9712	0.9568	0.9642
chr7	74987023	74987164	5	0.95436	0.9604	0.9645	0.848	0.9596	0.96804	0.8941	0.9654	0.9526
chr7	75000951	75001164	5	0.94229	0.9522	0.95057	0.99	0.9609	0.97909	0.9233	0.9646	0.9444
chr7	75003843	75004009	6	0.96745	0.9887	0.95625	0.94417	0.97317	0.96183	0.87883	0.97733	0.98317
chr7	75005612	75005902	6	0.96702	0.9735	0.96092	0.93717	0.96833	0.9812	0.85975	0.982	0.9735
chr7	75009116	75009294	5	0.96779	0.9406	0.92803	0.9618	0.94546	0.95356	0.8653	0.9616	0.9802
chr7	75011595	75011693	7	0.96284	0.9523	0.9526	0.941	0.94143	0.96837	0.85629	NaN	0.94929
chr7	75015709	75015839	8	0.95738	0.9588	0.9505	0.94687	0.94937	0.9665	0.88925	0.9545	0.982
chr7	75015749	75015839	7	0.95482	0.9567	0.94879	0.94929	0.95061	0.96811	0.88886	0.95843	0.97943
chr7	75017099	75017188	6	0.95955	NaN	0.96156	0.98383	0.96683	0.95722	0.9135	0.96933	0.96683

FIG. 6 **(Continued)**

chr7	75018049	75018108	7	0.96771	0.9731	0.97236	0.9794	0.95443	0.9583	0.971	0.9679	0.9399	0.9203	0.96636	0.96719
chr7	75019860	75020107	7	0.97471	0.9668	0.97975	0.93354	0.95743	0.9403	0.96221	0.9451	0.9506	0.9767	0.94507	0.95429
chr7	75021267	75021325	5	0.9712	0.9828	0.96475	0.96644	0.9608	0.9786	0.9577	0.9605	0.9718	0.9654	0.9453	0.9768
chr7	75022666	75022755	5	0.9828	0.9807	0.97845	0.94976	0.9792	0.975	0.9664	0.9906	0.9582	0.9602	0.933	0.96707
chr7	75027108	75027246	5	0.9692	0.9605	0.96595	0.95148	0.9418	0.9372	0.9634	0.9535	0.959	0.9669	0.98	0.9584
chr7	75027613	75027687	5	0.9768	0.9597	0.9764	0.9554	0.9772	0.941	0.9621	0.977	0.9676	0.9604	0.956	0.96657
chr7	75027980	75028066	5	0.9866	0.9864	0.9816	0.98004	0.9546	0.955	0.9508	0.9569	0.9616	0.9713	0.9368	0.98277
chr7	75029676	75029881	5	0.9518	0.9783	0.96655	0.9574	NaN	0.9804	0.9764	0.9738	0.9452	0.9463	0.9403	0.95763
chr7	75032417	75032801	7	0.92829	0.9804	0.98443	0.94191	0.93029	0.9157	0.96564	0.9536	0.9707	0.9498	0.93171	0.9671
chr7	75035861	75035999	5	0.9646	0.9755	0.97655	0.95188	0.9772	0.953	0.9653	0.9612	0.9192	0.9579	0.9334	0.9647
chr7	75037184	75037289	5	1	0.9771	0.9647	0.94112	0.9866	0.9544	0.952	0.9548	0.9582	0.9632	0.893	0.9652
chr7	75039321	75039598	6	0.94833	0.9756	0.96617	0.9575	0.9535	0.9517	0.96858	0.9712	0.9638	0.9499	0.92983	0.96522
chr7	75039383	75039667	8	0.94875	0.9795	0.97534	0.95983	0.9575	0.9569	0.97375	0.9731	0.9576	0.9534	0.92919	0.96017
chr7	75042479	75042573	6	0.952	0.9744	0.97358	0.94827	0.96333	0.9608	0.96575	0.9434	0.9657	0.9547	0.934	0.95778
chr7	75042590	75042735	8	0.9525	0.9799	0.97062	0.95363	0.976	0.9531	0.96919	0.9728	0.9536	0.9691	0.93819	0.97158
chr7	75042750	75042884	6	0.95383	0.9792	0.96913	0.9599	0.98367	0.9707	0.97683	0.9827	0.975	0.9728	0.96058	0.97106
chr7	75042927	75043150	11	0.97182	0.9871	0.96645	0.96598	0.98055	0.9753	0.97436	0.9725	0.9791	0.9713	0.94777	0.97314
chr7	75042963	75043689	23	0.96061	0.9841	0.96538	0.95715	0.98104	0.9659	0.97441	0.9675	0.9679	0.9693	0.94415	0.96929
chr7	75042998	75043084	5	0.9438	0.9839	0.97005	0.96228	0.9836	0.9696	0.9772	0.9718	0.984	0.97	0.9302	0.967
chr7	75043103	75043187	6	0.96433	0.9898	0.963	0.94257	0.96483	0.9655	0.975	0.9539	0.9655	0.9731	0.94983	0.96564
chr7	75043147	75043187	5	0.9572	0.9878	0.9681	0.94344	0.9612	0.9586	0.9724	0.9538	0.9628	0.9768	0.9518	0.96973
chr7	75043464	75043689	7	0.96629	0.981	0.96575	0.96323	0.98343	0.9606	0.97136	0.9732	0.9661	0.9699	0.93786	0.97112
chr7	75043904	75044147	6	0.9655	0.9823	0.977	0.95433	0.96767	0.9757	0.971	0.9675	0.9588	0.9661	0.918	0.97478
chr7	75043936	75044147	5	0.9654	0.9832	0.9776	0.95516	0.9696	0.9708	0.9692	0.9731	0.966	0.9676	0.9252	0.9759
chr7	75045154	75045441	6	0.95067	0.9471	0.96462	0.9468	0.94517	0.9582	0.95117	0.9698	0.9568	0.9565	0.90975	0.96969
chr7	75045617	75046006	10	0.9552	0.9769	0.9654	0.94546	0.9765	0.971	0.9667	0.9529	0.9748	0.9597	0.9118	0.96093
chr7	75045921	75046062	5	0.975	0.9859	0.9681	0.92836	0.9874	0.9648	0.9655	0.9601	0.984	0.9768	0.9054	0.97327
chr7	75046059	75046094	5	0.9606	0.9777	0.96875	0.91392	0.9752	0.9746	0.983	0.9554	0.9642	0.9669	0.9033	0.96977
chr7	75046919	75047045	7	0.96157	0.9571	0.97557	0.95366	0.96986	0.9727	0.93764	0.9701	0.9814	0.9811	0.93679	0.95357
chr7	75047190	75047312	9	0.98478	0.9826	0.96914	0.96073	0.95144	0.9744	0.97322	0.9836	0.965	0.9766	0.92444	0.9755

***FIG. 6* (Continued)**

SUBSTITUTE SHEET (RULE 26)

chr7	75018049	75018108	7	0.96914	0.9626	0.96969	0.95886	0.96981	0.97154	0.8885	0.99229	0.93671
chr7	75019860	75020107	7	0.97135	0.9351	0.93179	0.971	0.95445	0.97663	0.9075	0.97571	0.96014
chr7	75021267	75021325	5	0.96186	0.9602	0.97183	0.9426	0.95883	0.97048	0.9395	0.9872	0.9706
chr7	75022666	75022755	5	0.9666	0.9588	0.9614	0.983	0.967	0.95988	0.9354	0.9788	0.9734
chr7	75027108	75027246	5	0.97406	0.9554	0.9759	0.9106	0.95847	0.96892	0.8992	0.9814	0.9668
chr7	75027613	75027687	5	0.9646	0.9694	0.97403	0.9356	0.9647	0.96836	0.949	0.9746	0.9768
chr7	75027980	75028066	5	0.97606	0.9526	0.97497	0.9886	0.97263	0.98424	0.9505	0.9698	0.9808
chr7	75029676	75029881	5	0.97109	0.9672	0.94573	0.994	0.95863	0.96908	0.9228	0.9858	0.9826
chr7	75032417	75032801	7	0.95908	0.986	0.96293	0.97514	0.96852	0.96311	0.92671	0.96557	0.95414
chr7	75035861	75035999	5	0.96734	0.9686	0.97553	0.9374	0.9699	0.97012	0.9071	0.9798	0.9686
chr7	75037184	75037289	5	0.96451	0.9272	0.95777	0.9618	0.97133	0.96248	0.9197	0.974	0.9444
chr7	75039321	75039598	6	0.96779	0.973	0.95858	0.95933	0.96656	0.9669	0.922	0.9745	0.9835
chr7	75039383	75039667	8	0.96764	0.9736	0.96546	0.96662	0.96821	0.97042	0.93956	0.97662	0.9835
chr7	75042479	75042573	6	0.96038	0.9698	0.95264	0.95817	0.95919	0.96497	0.95925	0.971	0.97683
chr7	75042590	75042735	8	0.96277	0.9781	0.96294	0.96137	0.96948	0.97557	0.94494	0.97537	0.961
chr7	75042750	75042884	6	0.96698	0.9805	0.96683	0.97833	0.97225	0.97667	0.966	0.97167	0.977
chr7	75042927	75043150	11	0.97869	0.9646	0.97091	0.96145	0.97339	0.96918	0.96623	0.97418	0.98082
chr7	75042963	75043689	23	0.96825	0.9602	0.9708	0.93965	0.97298	0.96717	0.95143	0.97483	0.97235
chr7	75042998	75043084	5	0.98154	0.9574	0.96823	0.9588	0.96713	0.97344	0.9664	0.9706	0.989
chr7	75043103	75043187	6	0.96312	0.9315	0.96719	0.9735	0.97156	0.9653	0.95742	0.9785	0.96667
chr7	75043147	75043187	5	0.96094	0.9282	0.96813	0.9786	0.97227	0.96552	0.9601	0.9768	0.9636
chr7	75043464	75043689	7	0.96488	0.9763	0.97507	0.89371	0.97448	0.96431	0.934	0.98186	0.97643
chr7	75043904	75044147	6	0.96174	0.9753	0.96247	0.96883	0.96992	0.97053	0.95058	0.98733	0.976
chr7	75043936	75044147	5	0.95983	0.9764	0.9612	0.9658	0.9719	0.97076	0.9473	0.9878	0.9812
chr7	75045154	75045441	6	0.96436	0.9607	0.95617	0.95017	0.97017	0.96797	0.96225	0.97783	0.97167
chr7	75045617	75046006	10	0.96311	0.9341	0.95708	0.9516	0.95947	0.97514	0.9442	0.9835	0.979
chr7	75045921	75046062	5	0.96243	0.972	0.96987	0.9698	0.97043	0.98212	0.9493	0.9642	0.9566
chr7	75046059	75046094	5	0.96226	0.9502	0.9654	0.9818	0.97343	0.96316	0.948	0.9812	0.9326
chr7	75046919	75047045	7	0.94733	0.9713	0.95131	0.94586	0.94731	0.96654	0.93736	0.96557	0.91329
chr7	75047190	75047312	9	0.97157	0.9614	0.9627	0.97222	0.96794	0.97673	0.95878	0.97456	0.97489

FIG. 6 **(Continued)**

chr7	75047414	75047572	6	0.98183	0.9696	0.97425	0.9144	0.98367	0.9693	0.97258	0.955	0.9555	0.9588	0.954	0.97478
chr7	75048180	75048404	9	0.98211	0.9769	0.96411	0.95564	0.95544	0.9699	0.958	0.9687	0.9681	0.9692	0.94233	0.95474
chr7	75048582	75048702	5	1	1	0.9783	0.9342	0.9692	0.9734	0.9503	0.9405	0.9764	0.9909	1	0.9613
chr7	75052128	75052518	11	0.94436	0.9749	0.96198	0.94858	0.965	0.9337	0.96564	0.9509	0.9526	0.9639	0.91382	0.96961
chr7	75052260	75052493	7	0.94143	0.9752	0.96479	0.96234	0.96471	0.9317	0.967	0.9531	0.9729	0.9694	0.92193	0.97255
chr7	75053558	75054124	7	0.93414	0.9635	0.95057	0.9506	0.95214	0.9534	0.95186	0.9581	0.9824	0.9561	0.8995	0.9771
chr7	75053669	75054049	5	0.9462	0.9627	0.9427	0.9518	0.97	0.9514	0.9486	0.9768	0.9888	0.9804	0.9183	0.9825
chr7	75057405	75057669	10	0.9752	0.9801	0.97603	0.95998	0.9668	0.9643	0.9706	0.9719	0.9836	0.971	0.9736	0.97245
chr7	75058481	75058579	5	0.955	0.9761	0.9766	0.96676	0.9828	0.9904	0.9732	0.9717	0.9548	0.9742	0.935	0.96603
chr7	75058525	75058661	8	0.97512	0.9752	0.97563	0.97	0.96925	0.9905	0.97319	0.9766	0.9754	0.9775	0.94656	0.9705
chr7	75058567	75058916	14	0.97536	0.9767	0.97746	0.96869	0.96479	0.9854	0.96732	0.9774	0.9636	0.975	0.95068	0.97396
chr7	75058682	75058916	6	0.96733	0.9761	0.97979	0.96313	0.96983	0.9825	0.96875	0.9713	0.9448	0.9796	0.944	0.97656
chr7	75059286	75059565	11	0.96827	0.9777	0.96977	0.95911	0.964	0.9559	0.96364	0.9554	0.9771	0.9602	0.94877	0.97002
chr7	75059430	75059565	6	0.97667	0.9829	0.96846	0.9712	0.977	0.962	0.96683	0.9624	0.9813	0.9728	0.9605	0.97508
chr7	75140676	75140825	9	0.97156	0.9738	0.97266	0.97284	0.96822	0.9221	0.96622	0.9576	0.9667	0.9726	0.91861	0.97743
chr7	75140692	75140785	5	1	0.9719	0.9709	0.97652	0.9812	0.9666	0.9605	0.9434	0.9512	0.9619	0.9123	0.97587
chr7	75140732	75140823	5	0.9654	0.9801	0.9787	0.96284	0.9674	0.8932	0.9855	0.9541	0.9678	0.9672	0.9272	0.97903
chr7	75499047	75499255	5	0.9544	0.933	0.96025	0.93456	0.93	0.9858	0.9734	0.9444	0.9732	0.965	0.9455	0.9476
chr7	75920608	75920752	6	0.966	0.6087	0.85696	0.9565	0.20883	0.5375	0.95342	0.8495	0.5048	0.8423	0.92733	0.95944
chr7	75920636	75920752	4	0.959	0.6018	0.85187	0.9582	0.19075	0.5085	0.94375	0.8376	0.387	0.7906	0.937	0.958
chr7	75954033	75954098	6	0.946	0.9748	0.952	0.0195	0.968	0.9643	0.13075	0.9659	0.9843	0.9746	0.931	0.02049
chr7	75979364	75979398	2	0.9605	0.9593	0.95588	0.15187	0.9475	0.9735	0.413	0.9248	0.896	0.9403	0.8925	0.7545
chr7	77240717	77240798	2	0.9895	0.9872	0.97287	NaN	0.9805	1	0.5435	0.98	0.939	0.9508	0.905	0.2395
chr7	77244709	77244715	2	0.933	0.9315	0.96013	0.1206	0.963	1	0.14525	0.9525	0.9575	0.9345	0.94975	0.05508
chr7	77534614	77534645	5	0.9588	0.9839	0.97135	0.96804	0.9412	0.959	0.9528	0.9349	0.9448	0.96	0.9721	0.96859
chr7	77831778	77831837	4	0.9655	0.7688	0.9215	0.95455	0.158	0.53	0.97088	0.9688	0.181	0.9555	0.9435	0.85996
chr7	77831786	77831837	3	0.954	0.7617	0.91442	0.957	0.17967	0.5197	0.9815	0.978	0.1747	0.972	0.94283	0.85233
chr7	77906775	77906904	8	0.97225	0.9689	0.9745	0.92828	0.91987	0.9786	0.95481	0.9656	0.9429	0.9594	0.948	0.94606
chr7	77906799	77906864	5	0.9556	0.9651	0.9844	0.92772	0.9186	0.9888	0.9553	0.9698	0.9484	0.9624	0.961	0.9387
chr7	77906823	77906904	6	0.963	0.9767	0.97679	0.91903	0.921	0.9795	0.96975	0.964	0.943	0.9603	0.96442	0.95742

FIG. 6 (Continued)

chr7	75047414	75047572	6	0.9721	0.9675	0.96853	0.957	0.96692	0.9704	0.95608	0.95983	0.99033	
chr7	75048180	75048404	9	0.96682	0.9351	0.95587	0.95611	0.96135	0.97473	0.95439	0.98189	0.95056	
chr7	75048582	75048702	5	0.95457	0.9714	0.9726	NaN	0.972	0.97644	0.9478	0.9664	0.9888	
chr7	75052128	75052518	11	0.96178	0.9493	0.95548	0.95691	0.96542	0.96818	0.94109	0.98482	0.95191	
chr7	75052260	75052493	7	0.96543	0.9653	0.96538	0.97529	0.97188	0.9722	0.95693	0.98643	0.95486	
chr7	75053558	75054124	7	0.96486	0.9846	0.9499	0.94914	0.95757	0.97277	0.94864	0.97	0.945	
chr7	75053669	75054049	5	0.96549	0.9956	0.95283	0.9664	0.95833	0.97904	0.9567	0.9708	0.9534	
chr7	75057405	75057669	10	0.9711	0.965	0.97188	0.9679	0.97758	0.97528	0.97425	0.9819	0.9759	
chr7	75058481	75058579	5	0.95509	0.9628	0.9499	0.9772	0.97243	0.9756	0.9611	0.9582	0.974	
chr7	75058525	75058661	8	0.96538	0.9748	0.96777	0.98175	0.97369	0.9746	0.97062	0.97413	0.97325	
chr7	75058567	75058916	14	0.96803	0.9639	0.96876	0.98214	0.97325	0.97277	0.97496	0.97514	0.978	
chr7	75058682	75058916	6	0.96945	0.9498	0.96511	0.98367	0.97422	0.9736	0.97283	0.97217	0.9825	
chr7	75059286	75059565	11	0.96683	0.9651	0.95664	0.96773	0.95798	0.97413	0.95273	0.97482	0.97291	
chr7	75059430	75059565	6	0.96876	0.9847	0.96142	0.9775	0.9725	0.97327	0.95683	0.97517	0.96817	
chr7	75140676	75140825	9	0.96697	NaN	0.96617	0.96289	0.96474	0.98007	0.94283	0.96111	0.95267	
chr7	75140692	75140785	5	0.9562	0.937	0.96043	0.9594	0.9616	0.97784	0.9179	0.9548	0.947	
chr7	75140732	75140823	5	0.96963	0.9582	0.9572	0.9804	0.96507	0.97176	0.9501	0.9666	0.9428	
chr7	75499047	75499255	5	0.97194	0.8914	0.95697	0.9578	0.94969	0.96524	0.9424	0.9946	0.9438	
chr7	75920608	75920752	6	0.96052	0.942	0.96742	0.95767	0.95503	0.97083	0.91042	0.97833	0.17983	
chr7	75920636	75920752	4	0.95586	0.9385	0.96725	0.9535	0.95125	0.9656	0.88762	0.97075	0.1585	
chr7	75954033	75954098	6	0.01448	0.0158	0.33242	0.91667	0.03597	0.9634	0.80475	0.9685	0.97817	
chr7	75979364	75979398	2	0.68271	0.8515	0.83158	0.886	0.86417	0.9618	0.85525	0.9615	0.8875	
chr7	77240717	77240798	2	0.66417	0.824	0.83292	0.994	NaN	0.9684	0.88275	0.9585	0.9665	
chr7	77244709	77244715	2	0.12533	0.4355	0.85208	0.9235	0.70942	0.969	0.9305	0.932	1	
chr7	77534614	77534645	5	0.97657	0.9662	0.96813	0.948	0.97727	0.97872	0.9796	1	0.9738	
chr7	77831778	77831837	4	0.87743	0.97	0.97017	0.90675	0.96058	0.9123	0.86313	0.9725	0.30625	
chr7	77831786	77831837	3	0.86586	0.9753	0.97139	0.94233	0.96161	0.92027	0.87233	0.97	0.31933	
chr7	77906775	77906904	8	0.9368	0.9785	0.94712	0.07613	0.93894	0.10487	0.03556	NaN	0.9765	
chr7	77906799	77906864	5	0.93094	0.9762	0.93287	0.081	0.93517	0.08856	0.0389	0.0908	0.985	
chr7	77906823	77906904	6	0.94805	0.9857	0.95611	0.08583	0.95406	0.10053	0.03325	0.132	0.9795	

FIG. 6 **(Continued)**

chr7	77906838	77906904	5	0.9556	0.9743	0.974	0.91144	0.9052	0.9754	0.9673	0.9601	0.943	0.9576	0.9626	0.95533
chr7	77984785	77984840	5	0.9826	0.9824	0.9776	0.9668	0.9888	1	0.99	0.9678	0.9702	0.9618	0.9289	0.9671
chr7	81556517	81556528	2	1	1	0.978	0.9287	1	0.8185	0.9545	0.9443	0.6	0.8953	1	0.97217
chr7	82642301	82642357	5	0.9602	0.9765	0.9843	0.956	0.9822	0.9564	0.9622	0.9734	0.9904	0.9657	0.9344	0.96097
chr7	88410176	88410232	5	0.9456	0.9941	0.9719	0.98116	0.991	0.9646	0.9801	1	0.9628	0.9964	0.9294	0.98233
chr7	92574766	92574831	5	1	0.9959	0.9793	0.98936	1	0.96	0.9679	0.9489	0.9244	1	0.9944	0.9641
chr7	98347500	98347543	3	0.83767	0.9512	0.88917	0.91293	0.59233	0.7833	0.9595	0.9088	NaN	0.2083	0.88967	0.94594
chr7	98930525	98930604	4	0.95	0.9591	0.86969	0.92385	0.28	0.1485	0.93538	0.893	0.429	0.362	0.933	0.94689
chr7	98930546	98930671	5	0.9266	0.9582	0.8796	0.9342	NaN	0.1232	0.9381	0.8881	0.4816	0.4014	0.9196	0.93427
chr7	99373531	99373552	2	0.945	0.9562	0.22513	0.9322	0.98	0.8515	0.935	0.9435	0.928	0.8368	0.937	0.95942
chr7	100379537	100379601	4	0.9785	0.9947	0.92344	0.05615	0.98925	0.9128	0.172	0.9796	0.9743	0.9644	0.90562	0.03642
chr7	101091911	101091946	7	0.975	0.978	0.9753	0.97991	0.963	0.9391	0.99279	0.9476	0.9754	0.9641	0.93864	0.97045
chr7	101241201	101241272	5	0.9582	0.9475	0.93565	0.0202	0.933	0.9678	0.1853	0.9149	0.9554	0.9423	0.8387	0.033
chr7	101673722	101673795	5	0.954	0.9701	0.96555	0.96896	0.8956	0.9262	0.956	0.9579	0.9408	0.954	0.918	0.9623
chr7	101694939	101694974	5	0.9914	0.9725	0.9785	0.93803	0.9246	0.975	0.9582	0.9657	0.9226	0.9677	0.9684	0.97783
chr7	101694963	101695007	5	NaN	0.9839	0.94045	0.95211	0.9196	1	0.9631	0.9885	0.9778	0.9733	0.9367	0.98403
chr7	102347832	102347917	7	0.98429	0.9783	0.96882	0.98654	0.98871	0.985	0.97079	0.9806	0.9511	0.9826	0.958	0.97226
chr7	102347869	102348002	6	0.9725	0.9712	0.97171	0.9646	0.9525	0.9682	0.97	0.97	0.972	0.9588	0.93517	0.96767
chr7	102348115	102348192	6	0.9535	0.9739	0.97579	0.94777	0.96533	0.9432	0.94275	0.9537	0.9383	0.9327	0.94783	0.96417
chr7	102348472	102348527	7	0.96471	0.9834	0.97643	0.96911	0.97329	0.9659	0.98479	0.9784	0.962	0.972	0.97429	0.98098
chr7	102355922	102355981	5	0.9846	0.959	0.9729	0.95228	0.9204	0.9766	0.9756	0.9813	0.9792	0.945	0.9761	0.9728
chr7	105324714	105324814	4	0.9295	0.9552	0.96025	0.01714	0.98	0.9653	0.16	0.9376	0.9658	0.9635	0.93138	0.12246
chr7	106258903	106258946	3	0.951	0.8783	0.92417	0.95807	0.72667	0.2097	0.93117	0.7767	0.979	0.942	0.9335	0.96744
chr7	106258921	106258946	2	0.9635	0.8547	0.92788	0.9639	0.7375	0.1795	0.929	0.7573	0.982	0.9453	0.9535	0.96192
chr7	106258964	106259055	2	0.995	0.813	0.93512	0.9555	0.6955	0.142	0.977	0.7993	0.8685	0.9603	0.873	0.96
chr7	111283901	111283967	6	0.97617	0.9408	0.95371	0.9124	1	0.9902	0.93592	0.9393	0.9708	0.981	0.9725	0.9595
chr7	128743613	128743627	2	0.667	0.9733	0.96925	0.1646	0.9585	0.982	0.33925	0.9285	0.839	0.9408	0.93375	0.04483
chr7	128962226	128962291	5	1	0.9648	0.96715	0.95992	0.9578	1	0.9818	0.9846	0.9714	0.9733	0.9793	0.9602
chr7	129249517	129249584	7	0.97343	0.9842	0.97854	0.9796	0.96657	0.9717	0.9875	0.9712	0.9956	0.9529	0.89457	0.9592
chr7	129543355	129543398	5	0.9566	0.9667	0.87955	0.88712	0.9164	0.9062	0.8962	0.1215	0.8118	0.6574	0.9359	0.95446

***FIG. 6* (Continued)**

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chr7	77906838	77906904	5	0.94954	0.9894	0.96143	0.0842	0.95597	0.10436	0.023	0.147	0.9754	
chr7	77984785	77984840	5	0.94729	0.9556	0.96643	0.9554	0.9606	0.97876	0.8672	0.98	NaN	
chr7	81556517	81556528	2	0.9778	1	0.919	1	0.9695	0.95675	0.8545	0.98	1	
chr7	82642301	82642357	5	0.95864	0.9924	0.94157	0.958	0.96157	0.97308	0.9333	0.9938	NaN	
chr7	88410176	88410232	5	0.96402	1	0.98217	0.9334	0.97667	0.96194	0.9474	0.9606	0.9334	
chr7	92574766	92574831	5	0.98583	0.968	0.97603	0.9876	0.9664	0.97394	0.9805	1	1	
chr7	98347500	98347543	3	0.95214	0.9083	0.9555	NaN	0.94883	0.88927	0.05483	0.971	0.68433	
chr7	98930525	98930604	4	0.91679	0.8863	0.89487	0.57975	0.9261	0.9482	0.1315	0.97075	0.5055	
chr7	98930546	98930671	5	0.92377	0.8562	0.89857	0.5532	0.91573	0.94464	0.1234	0.9756	0.4258	
chr7	99373531	99373552	2	0.94014	0.858	0.92983	0.9655	0.9395	0.9611	0.9385	0.9835	0.9335	
chr7	100379537	100379601	4	0.04668	NaN	0.00713	0.9725	0.04763	0.9742	0.92588	0.959	0.9575	
chr7	101091911	101091946	7	0.97486	0.9823	0.9781	0.96329	0.97874	0.98329	0.98079	0.99386	0.98286	
chr7	101241201	101241272	5	0.03643	0.4286	0.07783	0.9316	0.04383	0.87088	0.8829	0.948	0.9548	
chr7	101673722	101673795	5	0.97309	0.9784	0.96503	0.9628	0.9624	0.96404	0.9011	0.9744	0.9328	
chr7	101694939	101694974	5	0.98563	1	0.945	0.9332	0.9674	0.95748	0.9076	0.9882	0.9684	
chr7	101694963	101695007	5	0.99166	1	0.95413	0.9666	0.96976	0.9808	0.8682	0.9882	0.9866	
chr7	102347832	102347917	7	0.96151	0.9506	0.9804	0.98586	0.95986	0.98663	0.96543	0.96714	0.96471	
chr7	102347869	102348002	6	0.97969	0.9912	0.96828	0.95767	0.95736	0.97917	0.95283	0.98	0.9685	
chr7	102348115	102348192	6	0.95399	0.9763	0.96304	0.91367	0.97043	0.95253	0.95167	0.97333	0.971	
chr7	102348472	102348527	7	0.97727	0.9839	0.97786	0.97643	0.98195	0.97757	0.96179	0.98	0.97329	
chr7	102355922	102355981	5	0.9778	0.969	0.9794	0.9494	0.9716	0.9798	0.9799	0.987	0.9654	
chr7	105324714	105324814	4	0.09894	0.7663	0.73113	0.97975	0.63092	0.98235	0.9555	0.9645	0.98525	
chr7	106258903	106258946	3	0.97524	0.7357	0.96278	0.96867	0.96728	0.97087	0.971	0.98333	0.964	
chr7	106258921	106258946	2	0.9775	0.798	0.96767	0.977	0.96917	0.9756	0.97425	0.986	0.962	
chr7	106259055	106259064	2	0.96671	0.8105	0.95933	0.971	0.95867	0.9767	0.96875	0.986	0.904	
chr7	111283901	111283967	6	0.97236	0.9327	0.96214	0.9775	0.92858	0.95293	0.95375	0.94617	0.92067	
chr7	128743613	128743627	2	0.09957	0.896	0.96758	0.9585	0.78092	0.9746	0.928	0.968	0.935	
chr7	128962226	128962291	5	0.98425	0.9688	0.94247	0.9866	0.9694	0.94444	0.9644	0.9722	0.9818	
chr7	129249517	129249584	7	0.96277	0.972	0.96526	0.97557	0.976	0.97846	0.95107	0.94743	0.96243	
chr7	129543355	129543398	5	0.94803	0.9514	0.95533	0.9384	0.95447	0.96932	0.9335	0.987	0.9662	

FIG. 6 **(Continued)**

chr7	129621812	129621887	6	0.95367	0.9869	0.97042	0.94863	0.99067	0.9635	0.97792	0.9624	0.9652	0.9707	0.95142	0.96219
chr7	129868510	129868575	7	0.98414	0.9824	0.98529	0.9726	0.98143	0.9249	0.95443	0.9378	0.9627	0.9964	0.96843	0.97495
chr7	129868535	129868575	5	0.9778	0.9827	0.98395	0.96336	0.9882	0.9194	0.9562	0.944	0.9702	0.995	0.9635	0.9741
chr7	130590379	130590414	6	0.9725	0.9733	0.97946	0.96774	0.9925	NaN	1	0.9561	0.951	1	0.96358	0.99353
chr7	130590389	130590414	5	0.9754	0.9724	0.97535	0.97569	0.991	0.7534	1	0.9598	0.9578	1	0.9705	0.99667
chr7	130651556	130651604	5	0.83	0.9511	0.97155	0.93286	0.975	1	0.9707	0.9738	0.9396	0.9705	0.97	0.93157
chr7	138903633	138903760	6	0.96733	0.0252	0.04824	0.95707	0.012	0.013	0.92475	0.7373	0.0178	0.1178	0.93233	0.96558
chr7	138903652	138903760	5	0.964	0.0224	0.04995	0.95512	0.0144	0.0056	0.9213	0.7466	0.0152	0.0935	0.931	0.96583
chr7	138903675	138903760	4	0.95875	0.0219	0.05477	0.95575	0.018	0.007	0.92225	0.7595	0.0078	0.0986	0.9295	0.96233
chr7	139118664	139118701	2	NaN	1	0.945	0.1375	1	0.7855	0.248	0.9715	0.818	0.8563	0.98225	0.2365
chr7	139186961	139187020	5	0.9818	0.9725	0.9835	0.9808	0.9582	1	0.9538	0.9613	0.9834	0.965	0.9882	0.99117
chr7	139700981	139701099	4	0.90775	0.9667	0.94525	0.9447	0.86575	0.9525	0.96588	0.9158	0.8323	0.8313	0.8775	0.95058
chr7	140322479	140322499	3	0.98233	0.9508	0.92817	0.91227	0.96633	0.9797	0.899	0.977	0.979	0.9812	0.06	0.94844
chr7	149173142	149173223	5	0.9532	0.9562	0.9663	0.95092	0.9712	0.975	0.9429	0.8875	0.988	0.9549	0.9212	0.9565
chr7	150408962	150409050	6	0.9755	0.899	0.89558	0.9568	0.89817	0.8613	0.91083	0.901	0.8512	0.9045	0.933	0.95978
chr7	150957435	150957461	5	0.9742	0.9725	0.9301	0.94307	0.9582	0.9662	0.9603	0.9569	0.9642	0.9348	0.9218	0.95843
chr7	151516028	151516067	2	0.8	0.9848	0.9545	0.54979	1	0.9575	0.66825	0.9783	0.8605	0.9458	0.9945	0.34358
chr7	151844345	151844350	2	1	1	0.96425	0	1	0.9785	0.1875	0.9463	0.9545	1	0.933	0
chr7	151844374	151844394	2	1	0.9583	0.95263	0	0.875	0.9735	0.1	0.9298	1	0.9583	1	0.03125
chr7	152027706	152027719	3	0.99167	0.9489	0.14156	0.96553	0.97933	0.8417	0.9175	0.1848	0.909	0.3132	0.967	0.96589
chr7	152027714	152027719	2	0.9935	0.9508	0.137	0.9726	0.988	0.818	0.9145	0.1855	0.906	0.3198	0.97725	0.96642
chr7	152027837	152027953	3	0.91067	0.9301	0.10733	0.9464	0.942	0.7533	0.9115	0.0153	0.8987	0.136	0.9075	0.94583
chr7	152027879	152027953	2	0.879	0.9237	0.106	0.951	0.913	0.771	0.90475	0.013	0.895	0.117	0.913	0.95283
chr7	152028003	152028166	2	0.944	0.9222	0.12013	0.9239	0.968	0.688	0.91	0.0228	0.885	0.1473	0.92275	0.96917
chr7	152028163	152028178	2	0.9355	0.9352	0.10812	0.8913	0.98	0.867	0.92075	0.0755	NaN	0.2003	0.9305	0.97775
chr7	154097415	154097430	2	0.8	0.95	1	0.9375	0.9375	NaN	1	NaN	0.9165	0.9168	0.9	0.60625
chr7	157137839	157137861	5	0.9906	0.9785	0.9463	0.95296	0.9564	0.9664	0.9367	0.963	0.9434	0.9437	0.9444	0.93783
chr8	305335	305390	5	0.9882	0.9611	0.9506	0.96104	0.8908	0.96	0.9636	0.9657	0.9646	0.9675	0.9261	0.9588
chr8	1922494	1922562	5	0.9218	0.9579	0.9425	0.01712	0.9304	0.9266	0.1955	0.6619	0.9164	0.8981	0.8664	0.04855
chr8	7259532	7259612	8	0.9235	0.9742	0.95455	0.94445	0.9565	1	0.96313	0.9279	0.9614	0.9373	0.90562	0.94256

***FIG. 6* (Continued)**

SUBSTITUTE SHEET (RULE 26)

chr7	129621812	129621887	6	0.97281	0.1453	0.9175	0.96367	0.96169	0.96655	0.96017	0.95733	0.94683	
chr7	129868510	129868575	7	0.96512	0.967	0.96726	0.97714	0.96402	0.96183	0.97064	0.98786	0.974	
chr7	129868535	129868575	5	0.96186	0.9538	0.9647	0.9924	0.97253	0.95936	0.9689	0.983	0.9636	
chr7	130590379	130590414	6	0.99257	1	0.97753	0.91117	0.98553	0.96993	0.96942	1	0.97917	
chr7	130590389	130590414	5	0.99246	1	0.97673	0.91	0.98263	0.96792	0.98	1	1	
chr7	130651556	130651604	5	0.94678	0.9782	0.9428	0.9778	0.92061	0.97184	0.934	0.9578	0.9818	
chr7	138903633	138903760	6	0.96726	0.9367	0.97072	0.95533	0.95656	0.97533	0.823	0.9835	0.0415	
chr7	138903652	138903760	5	0.96983	0.9356	0.96877	0.9488	0.95703	0.97728	0.8151	0.9832	0.026	
chr7	138903675	138903760	4	0.96814	0.927	0.96954	0.9535	0.95442	0.97485	0.79825	0.98225	0.0265	
chr7	139118664	139118701	2	0.6875	NaN	0	NaN	0.0798	0.987	0.181	1	0.827	
chr7	139186961	139187020	5	0.9826	1	0.9729	0.982	0.96133	0.96804	0.9381	0.9834	0.9788	
chr7	139700981	139701099	4	0.95029	0.93	0.93875	0.913	0.93867	0.96895	0.16375	0.97225	0.8385	
chr7	140322479	140322499	3	0.96269	0.896	0.92456	0.89267	0.93322	0.95053	0.86683	0.922	0.93433	
chr7	149173142	149173223	5	0.9536	0.0532	0.0273	0.9424	0.94893	0.96384	0.9097	0.944	0.9648	
chr7	150408962	150409050	6	0.95835	0.9433	0.95575	NaN	0.95022	0.00493	0.19933	0.030167	0.864	
chr7	150957435	150957461	5	0.95266	0.0742	0.92627	0.9506	0.92396	0.97484	0.9325	0.978	0.9372	
chr7	151516028	151516067	2	0.61072	0.8635	0.17558	0.9705	0.60275	0.9672	0.943	0.98	0.926	
chr7	151844345	151844350	2	NaN	0.9445	0.93767	0.9165	0.84342	0.9656	0.86	0.953	1	
chr7	151844374	151844394	2	0	0.9375	0.93788	1	0.84392	0.9964	NaN	NaN	0.9445	
chr7	152027706	152027719	3	0.96271	0.9587	0.96956	0.97633	0.96594	0.98493	0.98533	0.953	0.93433	
chr7	152027714	152027719	2	0.96457	0.9515	0.97225	0.984	0.96883	0.983	0.989	0.935	0.9305	
chr7	152027837	152027953	3	0.94914	0.947	0.94483	0.93733	0.94761	0.96193	0.93567	0.957	0.936	
chr7	152027879	152027953	2	0.95464	0.9205	0.95042	0.945	0.95983	0.9604	0.91925	0.972	0.9145	
chr7	152028003	152028166	2	0.96271	0.9585	0.95833	0.924	0.97	0.9609	0.95825	0.968	0.985	
chr7	152028163	152028178	2	0.9565	0.92	0.942	0.908	0.96125	0.9526	0.948	0.958	0.95	
chr7	154097415	154097430	2	0.95833	1	0.91458	0.9285	0.9514	0.95833	0.875	0.873	NaN	
chr7	157137839	157137861	5	0.95054	0.0648	0.1802	0.9612	0.92353	0.9814	0.974	0.977	0.9594	
chr8	305335	305390	5	0.97963	0.9858	0.93917	0.9492	0.95535	0.93848	0.9596	0.9904	0.9714	
chr8	1922494	1922562	5	0.03248	0.038	0.00661	0.9572	0.01863	0.95888	0.8559	0.9486	0.918	
chr8	7259532	7259612	8	0.95645	0.9815	0.96945	0.92912	0.9512	0.98477	0.943	0.98913	0.98275	

FIG. 6 **(Continued)**

chr8	8374797	8374847	4	0.9565	0.972	0.89769	0.12275	0.9035	NaN	0.38162	0.7628	0.9553	0.9206	0.90637	0.73779
chr8	8376260	8376328	2	0.915	0.9767	0.97987	0.43575	0.943	0.9855	0.4895	0.9783	0.9785	0.9888	0.9125	0.89575
chr8	8496267	8496312	3	0.88667	0.8668	0.808	0.91987	0.206	0.065	0.905	0.848	0.0917	0.1835	0.88083	0.93944
chr8	9669244	9669292	6	0.91033	0.9862	0.96946	0.9347	0.99283	0.9645	0.99183	0.9593	0.8673	0.953	0.95375	0.97822
chr8	11508225	11508240	4	0.903	0.9354	0.89125	0.95915	0.91675	0.9263	0.94688	0.8673	0.9113	0.9234	0.96262	0.97671
chr8	12205943	12206066	6	0.952	0.9756	0.98813	0.96703	0.97033	0.9818	0.966	0.9793	0.978	0.9771	0.9505	0.96417
chr8	22548823	22548835	2	0.939	0.9947	0.9595	0.05875	0.951	0.9565	0.2385	0.9255	0.991	0.9693	0.89825	0.74683
chr8	23567629	23567669	3	0.933	0.9703	0.94825	0.144	0.96233	0.9647	0.245	0.9413	0.9533	0.95	0.97417	0.34239
chr8	28106463	28106520	5	0.9866	0.9671	0.98452	0.96088	0.9504	0.958	0.9829	0.9857	0.934	0.9673	0.9355	0.96859
chr8	28339354	28339448	5	0.9382	0.9539	0.94175	0.02688	0.9676	0.9602	0.137	0.961	0.9572	0.957	0.88	0.04622
chr8	28773573	28773616	4	1	0.9713	0.93937	0.00265	0.93	0.9823	0.12075	0.7839	0.9615	0.9666	0.938	0.0195
chr8	30077568	30077621	4	0.95175	0.1004	0.14225	0.9283	0.30525	0.3293	0.95863	0.9106	0.4448	0.6655	0.94512	0.96242
chr8	30247742	30247767	6	0.98417	0.9772	0.97646	0.96989	0.96267	0.9723	0.99142	0.9729	0.9943	0.9628	0.96233	0.96456
chr8	30804323	30804640	5	0.9688	0.9802	0.9731	0.93592	0.989	0.9726	0.969	0.9559	0.9328	0.9472	0.9665	0.94723
chr8	31147607	31147670	3	0.95567	0.9533	0.95442	0.95507	0.76967	0.3243	0.96883	0.9418	0.9037	0.8432	0.94417	0.96372
chr8	37331934	37331942	3	1	0.99	0.96783	0.17607	0.97833	1	0.12967	0.9255	0.9233	0.9697	0.95167	0.20311
chr8	38126769	38126812	5	NaN	0.9925	0.9661	0.96308	0.9764	0.9826	0.9778	0.9745	0.9742	0.9828	0.945	0.97703
chr8	42154190	42154308	3	0.98033	0.3788	0.94708	0.95273	0.08867	0.015	0.95517	0.9738	0.0977	0.5373	0.93217	0.9735
chr8	42154305	42154348	3	0.984	0.3323	0.89733	0.95293	0	0	0.9315	0.9188	0.0263	0.4495	0.92767	0.971
chr8	42154345	42154353	2	0.972	0.4217	0.91	0.9525	0	0	0.947	0.9513	0.0515	0.5938	0.948	0.9735
chr8	47250120	47250168	5	0.995	0.9569	0.9887	0.9906	1	0.9876	0.9596	0.9947	1	0.9725	0.9488	0.9892
chr8	47352800	47352853	4	0.968	0.9838	0.94362	0.94465	0.97525	0.9173	0.89075	0.0895	0.99	0.9029	0.94175	0.95588
chr8	47361964	47362040	3	0.95133	0.944	0.89242	0.94327	0.93067	0.874	0.851	0.0668	0.6817	0.3315	0.899	0.94933
chr8	47936372	47936477	5	0.8704	0.9819	0.9778	0.93632	0.9584	0.9578	0.9474	0.9432	0.9552	0.9528	0.9047	0.95547
chr8	53844571	53844621	3	0.94533	0.2744	0.812	0.91633	NaN	0.2233	0.858	0.6912	0.0323	0.4077	0.94833	0.92389
chr8	59422299	59422338	6	0.9665	0.9726	0.97671	0.96747	0.94867	0.9168	0.99167	0.9863	0.9565	0.9664	0.92967	0.96131
chr8	59422319	59422338	5	0.9788	0.9715	0.9793	0.97241	0.9634	0.9354	1	0.988	0.9542	0.9753	0.9376	0.9566
chr8	60690782	60690995	7	0.99329	0.9591	0.97068	0.94674	0.91186	0.9796	0.97021	0.9604	0.903	0.9583	0.9065	0.95405
chr8	60690829	60690995	6	0.99217	0.9573	0.96721	0.94139	0.913	0.9828	0.96992	0.972	0.8952	0.9656	0.91775	0.95458
chr8	60690854	60690995	5	0.9906	0.9547	0.9672	0.94747	0.9078	0.9794	0.969	0.9664	0.8978	0.9707	0.9349	0.95517

FIG. 6 **(Continued)**

chr8	8374797	8374847	4	0.77846	0.8493	0.96379	0.95825	0.96433	0.9622	0.88637	0.97475	0.93075	
chr8	8376260	8376328	2	0.91564	0.977	0.95467	0.947	0.96833	0.9684	0.9625	0.944	0.9785	
chr8	8496267	8496312	3	0.94252	0.838	0.83694	0.073	0.90444	0.8298	0.07067	0.946	0.24167	
chr8	9669244	9669292	6	0.95852	0.9902	0.96158	0.952	0.97113	0.95511	0.95	0.96483	0.95083	
chr8	11508225	11508240	4	0.97929	0.9663	0.95979	0.00475	0.96229	0.01709	0.5435	0.943	0.8145	
chr8	12205943	12206066	6	0.98193	0.9825	0.96433	0.96067	0.97283	0.9931	0.9255	0.98783	0.96517	
chr8	22548823	22548835	2	0.74921	0.93	0.93858	0.913	0.8925	0.9702	0.922	0.9465	0.975	
chr8	23567629	23567669	3	0.32933	0.8783	0.87322	0.98067	0.84239	0.9862	0.93667	0.965	0.97433	
chr8	28106463	28106520	5	0.95678	0.9692	0.97727	0.99	0.9544	0.95756	0.9826	0.9914	0.961	
chr8	28339354	28339448	5	0.0535	0.0172	0.00303	0	0.05193	0.00939	0.0432	0.9092	0.959	
chr8	28773573	28773616	4	0.02421	0.0423	0.00354	0.98975	0.02117	0.9569	0.94863	0.96425	0.9555	
chr8	30077568	30077621	4	0.95018	0.9758	0.95042	0.965	0.93721	0.95485	0.88525	0.95775	0.1805	
chr8	30247742	30247767	6	0.9786	0.9615	0.99022	0.96367	0.98325	0.9776	0.94017	NaN	0.99117	
chr8	30804323	30804640	5	0.95017	0.9546	0.9696	0.9456	0.9647	0.96516	0.8472	0.9744	0.953	
chr8	31147607	31147670	3	0.96605	0.909	0.965	0.969	0.95494	0.9664	0.85917	0.98767	0.85433	
chr8	37331934	37331942	3	0.3021	0.9233	0.95983	0.926	0.81017	0.96913	0.886	0.974	0.93833	
chr8	38126769	38126812	5	0.95866	0.9432	0.96447	0.959	0.94379	0.96615	0.9815	0.9476	0.959	
chr8	42154190	42154308	3	0.98129	0.938	0.97161	0.97567	0.96667	0.96947	0.90517	0.98067	0.02233	
chr8	42154305	42154348	3	0.97195	0.7457	0.96594	0.88267	0.95333	0.97313	0.82067	0.98433	0.015	
chr8	42154345	42154353	2	0.98121	0.869	0.97517	0.92	0.95492	0.9772	0.89675	0.985	0.0105	
chr8	47250120	47250168	5	0.96529	0.9778	0.93649	0.9914	0.95857	0.984	0.908	0.9166	NaN	
chr8	47352800	47352853	4	0.95504	0.9753	0.95558	0.96675	0.941	0.9583	0.93012	0.9635	0.9425	
chr8	47361964	47362040	3	0.94548	0.937	0.95844	0.181	0.92589	0.5502	0.0585	0.81233	0.947	
chr8	47936372	47936477	5	0.961	0.0496	0.9359	0.9712	0.95197	0.9774	0.9434	0.969	0.9432	
chr8	53844571	53844621	3	0.89971	0.901	0.94322	0.82533	0.89939	0.95727	0.16833	0.95633	0.12867	
chr8	59422299	59422338	6	0.95074	0.9443	0.95879	0.958	0.95461	0.9846	0.93117	0.95783	0.9925	
chr8	59422319	59422338	5	0.95578	0.9632	0.95741	0.971	0.9647	0.9864	0.9427	0.9724	1	
chr8	60690782	60690995	7	0.95871	0.9173	0.95938	0.12871	0.95436	0.893	0.07593	0.95971	0.93243	
chr8	60690829	60690995	6	0.9591	0.9035	0.95808	0.10017	0.955	0.88233	0.068	0.95683	0.92117	
chr8	60690854	60690995	5	0.96423	0.9232	0.9566	0.1152	0.95653	0.87356	0.0644	0.9664	0.9122	

FIG. 6 **(Continued)**

chr8	60781300	60781402	3	0.98033	0.8724	0.87383	0.96613	0.54767	0.2657	0.911	0.955	0.6117	0.8497	0.97217	0.97656
chr8	61721608	61721662	2	1	0.9275	0.9725	0.00633	0.9375	0.9735	0.2615	0.986	0.96	0.9598	0.96175	0.01242
chr8	66249678	66249704	2	1	0.9658	0.99462	0.9531	0.842	0.222	0.95475	0.9455	0.89	0.9165	0.881	0.95908
chr8	70013599	70013838	4	0.95375	0.8852	0.90004	0.9248	0.09	NaN	0.96762	0.81	0.032	0.0991	0.89675	0.94854
chr8	85125479	85125543	5	0.9252	0.9955	0.9814	0.97416	0.9588	NaN	0.9926	0.9929	0.9866	0.9707	0.9746	0.96445
chr8	87203122	87203140	2	NaN	1	0.9	0.8875	1	1	1	0.9583	0.8335	0.9	0.91675	0.92767
chr8	95207480	95207559	8	0.955	0.9791	0.98628	0.9714	0.9605	0.982	0.9525	0.9686	0.926	0.9631	0.96675	0.97523
chr8	95207520	95207559	6	0.94833	0.9808	0.99213	0.98083	0.964	0.9813	0.93667	0.9761	0.9133	0.9687	0.97375	0.97653
chr8	95207524	95207559	5	0.958	0.9917	0.99055	0.977	0.9568	0.99	0.9406	0.9804	0.916	0.9624	0.9747	0.9738
chr8	98490772	98490785	2	0.9735	0.9807	0.913	0.9873	0.775	0.6595	0.99525	0.8875	0.269	0.2825	0.97175	0.98242
chr8	98826749	98826855	6	0.99367	0.9627	0.96808	0.95197	0.96683	0.9637	0.96583	0.9767	0.9547	0.9847	0.95917	0.96522
chr8	98827060	98827166	6	0.992	0.9715	0.96996	0.9535	0.9605	0.9858	0.98208	0.9682	0.9723	0.9757	0.959	0.97525
chr8	100504232	100504273	3	0.96067	1	0.9595	0.986	0.76233	0.192	0.99017	0.934	0.575	0.3738	0.9385	0.96239
chr8	100515307	100515381	3	0.987	0.7271	0.72133	0.88613	0.201	0.1143	0.88733	0.688	0.029	0.1505	0.9275	0.90372
chr8	102659503	102659698	5	0.9948	0.966	0.9715	0.93424	0.9388	0.9784	0.9643	0.9464	0.9752	0.962	0.9497	0.9772
chr8	109574886	109574982	8	0.96163	0.9776	0.96572	0.96097	0.96937	0.9711	0.94556	0.9576	0.9535	0.9499	0.95594	0.96262
chr8	109574918	109574982	7	0.966	0.9841	0.97089	0.96774	0.97471	0.9737	0.95164	0.9675	0.9644	0.9613	0.96657	0.97169
chr8	109574925	109574982	6	0.96033	0.9829	0.973	0.9734	0.97917	0.975	0.95358	0.9698	0.9762	0.9638	0.964	0.97486
chr8	109574930	109574982	5	0.961	0.9841	0.9715	0.97692	0.9804	0.9772	0.9595	0.9637	0.9744	0.9628	0.9596	0.97653
chr8	115753314	115753330	5	1	0.9773	0.96095	0.96199	0.9416	0.97	0.9661	0.9595	0.9928	0.9771	0.9021	0.98221
chr8	122920703	122920882	7	0.93486	0.9792	0.91243	0.91991	0.84	0.5456	0.95621	0.9109	0.6333	0.3279	0.91814	0.94957
chr8	125340207	125340353	5	0.9926	0.9311	0.9212	0.95208	0.4092	0.637	0.9305	0.883	0.1694	0.282	0.9432	0.92613
chr8	125340218	125340353	4	0.99075	0.9261	0.91856	0.9486	0.34475	0.595	0.93562	0.8813	0.1633	0.2583	0.93888	0.92675
chr8	125340241	125340376	4	0.9775	0.9147	0.92819	0.93875	0.30875	0.629	0.9385	0.8941	0.197	0.2613	0.92512	0.92733
chr8	128095774	128095823	4	0.96875	0.9743	0.90431	0.94905	0.8985	0.8583	0.98162	0.868	0.606	0.2886	0.97212	0.97696
chr8	128109530	128109641	5	0.9818	0.975	0.95865	0.9634	0.9628	0.994	0.9693	0.9647	0.9066	0.9857	0.954	0.96623
chr8	129157979	129158000	5	1	0.9495	0.96563	0.91599	0.94	NaN	0.987	0.9131	0.9894	0.9551	0.9367	0.95947
chr8	129683674	129683775	5	0.9458	0.955	0.936	0.07916	0.9446	0.9458	0.2353	0.9314	0.9256	0.9013	0.9226	0.16587
chr8	129988287	129988318	4	0.9825	0.9791	0.97856	0.9393	0.98225	0.9733	0.98262	0.9191	0.974	0.9514	0.96188	0.94779
chr8	130006216	130006264	5	0.9824	0.9647	0.92315	0.9558	0.9652	0.9418	0.8783	0.0438	0.9296	0.7644	0.9633	0.97077

***FIG. 6* (Continued)**

SUBSTITUTE SHEET (RULE 26)

chr8	60781300	60781402	3	0.971	0.9903	0.97272	0.84333	0.95844	0.9682	0.5795	0.97733	0.819
chr8	61721608	61721662	2	0.02277	0.9705	0.97	0.8335	0.79925	0.9717	0.439	0.9775	0.9585
chr8	66249678	66249704	2	0.94579	0.9565	0.94992	NaN	0.95375	0.9385	0.13725	0.9265	0.975
chr8	70013599	70013838	4	0.95886	0.943	0.95636	NaN	0.94967	0.8817	0.04138	0.96375	0.3475
chr8	85125479	85125543	5	0.95611	0.987	0.97367	0.9664	0.95853	0.96054	0.9929	0.9728	0.905
chr8	87203122	87203140	2	0.68842	0.8335	0.98333	NaN	0.938	0.91675	0.91125	0.9445	1
chr8	95207480	95207559	8	0.97513	0.9743	0.97596	0.96313	0.97025	0.95715	0.92712	0.97175	0.93938
chr8	95207520	95207559	6	0.97282	0.9657	0.97667	0.969	0.96994	0.9496	0.9275	0.96233	0.94433
chr8	95207524	95207559	5	0.96738	0.9588	0.97713	0.9628	0.9671	0.95312	0.9214	0.9548	0.9514
chr8	98490772	98490785	2	0.96786	0.992	0.97042	0.904	0.97967	0.9674	0.2535	0.972	0.798
chr8	98826749	98826855	6	0.9611	0.9723	0.97083	0.95767	0.96522	0.97887	0.95658	0.96983	0.96183
chr8	98827060	98827166	6	0.9694	0.979	0.97186	0.95883	0.97697	0.97627	0.96117	0.98483	0.97483
chr8	100504232	100504273	3	0.96981	0.9397	0.97617	1	0.96689	0.97747	0.839	0.982	0.81267
chr8	100515307	100515381	3	0.9099	0.004	0.033	0.28867	0.85244	0.84727	0.05367	0.97633	0.09767
chr8	102659503	102659698	5	0.96863	0.9606	0.96787	NaN	0.96183	0.95288	0.1462	0.97	0.98
chr8	109574886	109574982	8	0.97086	0.9441	0.959	NaN	0.95929	0.06825	0.07694	0.5825	0.9665
chr8	109574918	109574982	7	0.9788	0.9659	0.96748	0.00729	0.96429	0.07671	0.08164	0.66129	0.97057
chr8	109574925	109574982	6	0.98074	0.965	0.96828	0.0085	0.96519	0.08283	0.08792	0.70933	0.97533
chr8	109574930	109574982	5	0.9798	0.9664	0.967	0.0102	0.96483	0.08004	0.0867	0.687	0.9786
chr8	115753314	115753330	5	0.93471	0.9874	0.94473	0.9516	0.97283	0.96364	0.9291	0.962	0.9606
chr8	122920703	122920882	7	0.94059	0.9401	0.96262	0.89614	0.94298	0.97006	0.60286	0.98086	0.961
chr8	125340207	125340353	5	0.93971	0.9518	0.95887	0.0816	0.94907	0.88824	0.0892	0.9688	0.1066
chr8	125340218	125340353	4	0.93682	0.9453	0.95571	0.08725	0.94792	0.8867	0.08513	0.97075	0.10825
chr8	125340241	125340376	4	0.94471	0.95	0.95633	NaN	0.94258	0.88375	0.08963	0.97075	0.12575
chr8	128095774	128095823	4	0.96654	0.9718	0.96592	0.907	0.96754	0.97125	0.7985	0.9775	0.91675
chr8	128109530	128109641	5	0.95914	0.9456	0.9722	NaN	0.9589	0.91628	0.0926	0.9632	0.9914
chr8	129157979	129158000	5	0.97303	0.9546	0.96568	0.9408	0.9268	0.97402	0.9768	1	0.9394
chr8	129683674	129683775	5	0.14809	0.0156	0.00853	0.9346	0.05723	0.96632	0.851	0.979	0.9412
chr8	129988287	129988318	4	0.95432	0.1328	0.0115	0.8445	0.94758	0.96555	0.72863	0.978	0.98
chr8	130006216	130006264	5	0.96234	0.9416	0.9703	0.9754	0.96967	0.96756	0.9543	0.9822	0.9772

FIG. 6 **(Continued)**

chr8	131816013	131816021	2	0.8945	0.9503	0.975	0.043	0.98	0.972	0.399	0.9083	0.9485	0.9305	0.95575	0.0715
chr8	131856806	131856814	2	0.8125	0.9342	0.94662	0.01	0.8365	0.841	0.1175	0.929	0.867	0.8545	0.7935	0.0355
chr8	131986508	131986556	5	0.9826	0.9632	0.9507	0.9536	0.9792	0.9126	0.856	0.2111	0.9346	0.7825	0.9626	0.96933
chr8	132822152	132822275	4	0.9445	0.9742	0.93081	0.9522	0.5355	0.5058	0.97862	0.8904	0.3488	0.1719	0.92075	0.96442
chr8	133237549	133237537	2	0.969	0.9595	0.96875	0.7969	0.965	1	0.39025	0.964	0.9575	0.9933	0.9105	0.73733
chr8	140589371	140589336	4	0.9665	0.8819	0.83594	0.9493	0.508	0.684	0.95375	0.867	0.232	0.2085	0.94487	0.89225
chr8	141179210	141179015	5	0.9766	0.9513	0.9452	0.88276	0.8954	0.9002	0.9041	0.9524	0.9078	0.8732	0.8515	0.9256
chr8	141209347	141209269	6	0.96533	0.9593	0.92117	0.02007	0.926	0.9565	0.06992	0.3473	0.9292	0.868	0.93475	0.07711
chr8	141209310	141209347	4	0.9785	0.9508	0.92094	0.0209	0.9095	0.94	0.06663	0.3325	0.9305	0.8508	0.93488	0.07354
chr8	142661624	142661661	3	0.96867	0.9782	0.97067	0.94187	0.986	0.9443	0.96933	0.9682	0.957	0.9763	0.154	0.97661
chr8	142988398	142988411	4	0.961	0.9692	0.90081	0.9023	0.9615	0.4575	0.97187	0.8891	0.96	0.7589	0.96737	0.96125
chr8	142988404	142988411	2	0.975	0.9778	0.90787	0.9062	0.954	0.443	0.97475	0.8873	0.9695	0.766	0.975	0.96508
chr8	143462418	143462507	5	0.9636	0.0179	0.1332	0.95304	0.019	0.0182	0.9526	0.8606	0.0254	0.1473	0.942	0.9688
chr8	143469828	143469833	2	0.9615	0.9778	0.98025	0.925	0.9735	0.973	0.46975	0.992	0.9735	0.9878	0.973	0.97042
chr8	144135852	144136202	5	1	0.9749	0.97235	0.94244	0.9408	0.923	0.9665	0.9698	0.9806	0.9589	0.9191	0.96907
chr8	144139049	144139414	13	0.95377	0.9764	0.96194	0.95345	0.96077	0.9662	0.97585	0.9537	0.9702	0.9485	0.92792	0.97408
chr8	144139221	144139414	10	0.9505	0.9792	0.96335	0.9548	0.9657	0.9769	0.9787	0.9611	0.9806	0.95	0.92165	0.97602
chr8	144139504	144139962	9	0.94233	0.9731	0.96478	0.9406	0.96289	0.9678	0.95406	0.9558	0.9728	0.9629	0.90717	0.96622
chr8	144139684	144139962	7	0.95071	0.9732	0.968	0.9472	0.96071	0.964	0.95686	0.9564	0.9749	0.9659	0.93029	0.97174
chr8	144140364	144140875	7	0.968	0.9762	0.96693	0.95643	0.97129	0.9586	0.96007	0.9606	0.9703	0.9594	0.90821	0.96348
chr8	144140623	144140888	6	0.97517	0.9774	0.97075	0.96387	0.976	0.9512	0.97192	0.9613	0.9773	0.9608	0.89892	0.96681
chr8	144140657	144140888	5	0.9702	0.9779	0.9705	0.96668	0.978	0.9474	0.9737	0.9595	0.978	0.9647	0.8973	0.96437
chr8	144141568	144141794	9	0.87433	0.9607	0.96225	0.91918	0.96411	0.9239	0.95194	0.9668	0.9439	0.9558	0.94594	0.96496
chr8	144142130	144142275	5	0.9426	0.9765	0.9723	0.91788	0.9458	0.9396	0.9454	0.9223	0.9192	0.9332	0.8996	0.94667
chr8	144142881	144143041	5	0.959	0.9743	0.9621	0.96044	0.9678	0.9792	0.9726	0.9667	0.9594	0.959	0.9195	0.9707
chr8	144143531	144143876	6	0.95517	0.9588	0.97337	0.93613	0.94567	0.9693	0.96167	0.9445	0.9422	0.9275	0.92942	0.96483
chr8	144149123	144149190	7	0.97529	0.969	0.966	0.94234	0.96743	0.9771	0.955	0.955	0.9727	0.9379	0.94929	0.95593
chr8	144150526	144151024	6	0.96367	0.9707	0.95642	0.9443	0.96517	0.9512	0.94867	0.9173	0.9408	0.9361	0.8855	0.95756
chr8	144151334	144151600	7	0.97486	0.9778	0.96875	0.94111	0.96529	0.9464	0.96257	0.9635	0.969	0.9646	0.94036	0.96194
chr8	144151372	144151650	7	0.97986	0.9811	0.96321	0.95089	0.97371	0.9449	0.96136	0.9749	0.9747	0.9585	0.94314	0.96175

FIG. 6 **(Continued)**

chr8	131816013	131816021	2	0.4645	0.826	0.35802	NaN	0.04525	0.7558	0.028	0.9575	1
chr8	131856806	131856814	2	0.02857	0.8785	0.885	0.8535	0.87092	0.9347	0.601	0.954	0.9375
chr8	131986508	131986556	5	0.96766	0.9748	0.97667	0.9722	0.97057	0.9678	0.9604	0.9516	0.921
chr8	132822152	132822275	4	0.96414	0.9415	0.96629	0.4155	0.96258	0.93875	0.08138	0.9745	0.87775
chr8	133237537	133237549	2	0.80286	0.922	0.80608	1	0.91233	0.9815	0.9515	0.9855	0.9855
chr8	140589336	140589371	4	0.90625	0.9475	0.95937	0.25425	0.95154	0.9037	0.09188	0.948	0.209
chr8	141179015	141179210	5	0.91734	0.9344	0.94243	0.0034	0.90577	0.01763	0.1925	0.002	0.935
chr8	141209269	141209347	6	0.07095	0.0255	0.00231	0.94883	0.02433	0.93403	0.89308	0.93033	0.96117
chr8	141209310	141209347	4	0.07257	0.0273	0.00213	0.932	0.02142	0.93105	0.86813	0.939	0.9645
chr8	142661624	142661661	3	0.96276	0.9553	0.96689	0.97033	0.96883	0.97567	0.96283	0.986	0.971
chr8	142988398	142988411	4	0.95957	1	0.97313	0.94875	0.96642	0.9719	0.957	0.956	0.9705
chr8	142988404	142988411	2	0.96971	1	0.96875	0.937	0.971	0.9728	0.9465	0.948	0.9555
chr8	143462418	143462507	5	0.95823	0.943	0.9457	0.845	0.9529	0.94152	0.3336	0.9698	0.018
chr8	143469828	143469833	2	0.953	0.946	0.971	0.9505	0.948	0.9554	0.9585	0.957	0.984
chr8	144135852	144136202	5	0.96818	0.8826	0.955	0.9436	0.95613	0.97256	0.9323	0.9668	0.9736
chr8	144139049	144139414	13	0.95934	0.963	0.96714	0.95877	0.97232	0.97154	0.93515	0.98438	0.96738
chr8	144139221	144139414	10	0.95903	0.9622	0.96578	0.9649	0.97358	0.9703	0.9449	0.9861	0.9674
chr8	144139504	144139962	9	0.96652	0.9346	0.9573	0.94811	0.96509	0.96896	0.92311	0.98189	0.96089
chr8	144139684	144139962	7	0.96739	0.9406	0.95821	0.94771	0.9665	0.97091	0.93657	0.98443	0.96243
chr8	144140364	144140875	7	0.95663	0.9341	0.87638	0.95114	0.96162	0.97211	0.97471	0.96471	0.95771
chr8	144140623	144140888	6	0.962	0.9557	0.96425	0.9395	0.96153	0.976	0.97267	0.973	0.94733
chr8	144140657	144140888	5	0.96157	0.9546	0.96657	0.9396	0.9615	0.9782	0.9693	0.9774	0.9368
chr8	144141568	144141794	9	0.96003	0.9384	0.96211	0.96867	0.96904	0.97142	0.94483	0.98433	0.96533
chr8	144142130	144142275	5	0.9372	0.8726	0.9376	0.955	0.94537	0.97384	0.9095	0.9766	0.9224
chr8	144142881	144143041	5	0.97417	0.9378	0.95643	0.9598	0.97537	0.98384	0.9348	0.965	0.9816
chr8	144143531	144143876	6	0.96579	0.9582	0.96656	0.93467	0.95494	0.97307	0.91667	0.96133	0.945
chr8	144149123	144149190	7	0.95876	0.9353	0.94419	0.95271	0.94874	0.96183	0.93964	0.96886	0.95614
chr8	144150526	144151024	6	0.95507	0.9193	0.94061	0.95267	0.95889	0.9778	0.92292	0.97533	0.9285
chr8	144151334	144151600	7	0.96249	0.9229	0.92219	0.955	0.9551	0.97237	0.93914	0.97357	0.977
chr8	144151372	144151650	7	0.96347	0.9333	0.94079	0.94886	0.9636	0.97251	0.93271	0.97529	0.97314

***FIG. 6* (Continued)**

chr8	144154752	144154968	6	0.95433	0.9711	0.96762	0.94133	0.96183	0.9608	0.94975	0.9431	0.9772	0.9491	0.88825	0.94719
chr8	144155169	144155478	6	0.93867	0.9787	0.96962	0.95643	0.96217	0.9388	0.96792	0.9628	0.974	0.9426	0.94833	0.97019
chr8	144155959	144156006	5	0.9794	0.9623	0.97815	0.9458	0.9624	0.9914	0.9513	0.9576	0.9636	0.966	0.9316	0.96423
chr8	144156381	144156483	5	0.972	0.9509	0.9632	0.9115	1	NaN	0.9777	0.9648	0.9864	0.939	0.9026	0.9648
chr8	144156926	144157566	16	0.97819	0.9822	0.96305	0.94008	0.9675	0.9461	0.96606	0.957	0.9458	0.9293	0.91356	0.96137
chr8	144157015	144157106	7	0.98514	0.9785	0.97157	0.9382	0.97857	0.9526	0.98657	0.9686	0.9523	0.9543	0.93821	0.96288
chr8	144157087	144157363	8	0.99588	0.9818	0.95809	0.9445	0.94725	0.9504	0.95225	0.9596	0.9421	0.9109	0.88644	0.96273
chr8	144238396	144239098	29	0.95655	0.9694	0.96572	0.94368	0.94403	0.9498	0.96307	0.9542	0.9388	0.927	0.91819	0.95725
chr8	144238495	144238728	9	0.96311	0.9689	0.96708	0.94858	0.94711	0.9498	0.95778	0.9532	0.9273	0.9364	0.93117	0.95556
chr8	144239331	144239498	9	0.94244	0.9743	0.95236	0.94791	0.96478	0.928	0.96028	0.9346	0.9178	0.9317	0.92644	0.95124
chr8	144239646	144239725	5	1	0.9717	0.9805	0.96192	0.9772	0.9438	0.9672	0.9654	0.9828	0.9499	0.9453	0.96827
chr8	144239731	144240088	8	0.942	0.9806	0.98278	0.95365	0.962	0.9575	0.97025	0.9572	0.9605	0.9536	0.89256	0.97085
chr8	144240061	144240171	6	0.953	0.9754	0.96737	0.95377	0.94967	0.9392	0.974	0.9515	0.906	0.9235	0.889	0.97956
chr8	144240317	144240444	6	0.96983	0.9712	0.96963	0.9451	0.9395	0.954	0.96883	0.9584	0.9505	0.9353	0.94742	0.96878
chr8	144240342	144240450	6	0.97817	0.9721	0.96867	0.94503	0.94167	0.9517	0.96758	0.9628	0.9558	0.9312	0.94533	0.96625
chr8	144240372	144240609	9	0.97422	0.9808	0.97286	0.95044	0.96322	0.94	0.97206	0.9557	0.9503	0.9369	0.91383	0.96741
chr8	144240441	144240578	6	0.97267	0.9806	0.97187	0.95283	0.96583	0.9407	0.97525	0.9629	0.9388	0.9306	0.90317	0.96578
chr8	144240464	144240721	8	0.97887	0.9858	0.96244	0.95645	0.957	0.9366	0.96912	0.9579	0.9248	0.9276	0.88594	0.97052
chr8	144241336	144241468	8	0.95662	0.967	0.97044	0.93523	0.9505	0.9615	0.96481	0.9603	0.955	0.9491	0.93319	0.95371
chr8	144242432	144242542	6	0.97317	0.9801	0.95817	0.96253	0.9695	0.9645	0.964	0.9448	0.9517	0.9452	0.93208	0.97331
chr8	144242769	144242847	5	0.9788	0.9528	0.98545	0.91868	0.9562	0.9452	0.9526	0.9607	0.9646	0.9694	0.95	0.96713
chr8	144242962	144243333	5	0.9612	0.9788	0.98185	0.96282	0.9638	0.9734	0.9637	0.954	0.9426	0.9183	0.9233	0.96597
chr8	144243436	144243774	12	0.9635	0.9756	0.9711	0.95508	0.93692	0.9442	0.96417	0.951	0.9174	0.9219	0.90325	0.9672
chr8	144243541	144243630	5	0.9716	0.9842	0.9818	0.96668	0.9474	0.9624	0.9634	0.954	0.9292	0.9543	0.9404	0.97177
chr8	144243884	144244027	8	0.97213	0.9786	0.97403	0.96477	0.97913	0.9705	0.97994	0.9644	0.9738	0.9594	0.93769	0.97535
chr8	144244036	144244778	20	0.9648	0.9818	0.973	0.95994	0.95675	0.9681	0.98033	0.9658	0.9606	0.9554	0.92435	0.96867
chr8	144244079	144244245	5	0.9638	0.9745	0.98225	0.955	0.9666	0.9878	0.9752	0.9632	0.9662	0.9613	0.9446	0.97497
chr8	144245194	144245233	5	0.9744	0.9791	0.96865	0.94192	0.9734	0.978	0.9665	0.9759	0.962	0.9715	0.9598	0.9682
chr8	144247335	144247392	5	0.9582	0.9639	0.96985	0.96192	0.9594	0.9422	0.9603	0.9566	0.9286	0.9185	0.8998	0.9651
chr8	144247585	144247630	6	0.94417	0.9691	0.96742	0.93047	0.951	0.9857	0.957	0.9502	0.9517	0.9449	0.94817	0.97144

***FIG. 6* (Continued)**

SUBSTITUTE SHEET (RULE 26)

chr8	144154752	144154968	6	0.95733	0.8975	0.92072	0.96467	0.94769	0.96562	0.94633	0.96867	0.96267	
chr8	144155169	144155478	6	0.96526	0.9598	0.96039	0.97633	0.96383	0.96117	0.94708	0.95767	0.94783	
chr8	144155959	144156006	5	0.96591	0.9408	0.9314	0.9498	0.95663	0.9662	0.9522	0.9824	0.9706	
chr8	144156381	144156483	5	0.97509	0.9224	0.93337	0.9366	0.94889	0.96344	0.9396	0.9676	0.9778	
chr8	144156926	144157566	16	0.96179	0.9611	0.95111	0.94531	0.95466	0.97047	0.91638	0.97513	0.95944	
chr8	144157015	144157106	7	0.96292	0.9789	0.96971	0.96771	0.9576	0.97006	0.94764	0.97929	0.96757	
chr8	144157087	144157363	8	0.95709	0.961	0.95548	0.93875	0.94829	0.96676	0.8925	0.97637	0.94938	
chr8	144238396	144239098	29	0.95935	0.954	0.9523	0.95183	0.95886	0.97068	0.91016	0.97631	0.9499	
chr8	144238495	144238728	9	0.96367	0.9539	0.96089	0.95078	0.96483	0.96738	0.89989	0.97578	0.96711	
chr8	144239331	144239498	9	0.95789	0.9608	0.87574	0.94756	0.94052	0.96913	0.92733	0.97022	0.95322	
chr8	144239646	144239725	5	0.96006	0.9426	0.95887	0.9488	0.97173	0.97328	0.9274	0.9808	0.955	
chr8	144239731	144240088	8	0.96402	0.9524	0.97429	0.97887	0.96577	0.97674	0.94431	0.96675	0.964	
chr8	144240061	144240171	6	0.95438	0.9213	0.95744	0.97383	0.95975	0.96966	0.92933	0.97233	0.9365	
chr8	144240317	144240444	6	0.9684	0.9503	0.96094	0.93017	0.96175	0.96533	0.88633	0.9665	0.9705	
chr8	144240342	144240450	6	0.96995	0.9557	0.95553	0.93167	0.95961	0.9603	0.86983	0.96317	0.97	
chr8	144240372	144240609	9	0.97179	0.9656	0.96093	0.934	0.96722	0.96491	0.90017	0.97356	0.96433	
chr8	144240441	144240578	6	0.97148	0.9755	0.95983	0.9285	0.96264	0.9649	0.89642	0.972	0.96033	
chr8	144240464	144240721	8	0.963	0.9561	0.95623	0.94425	0.96525	0.9702	0.92281	0.97062	0.93337	
chr8	144241336	144241468	8	0.96041	0.952	0.90744	0.96513	0.94597	0.97568	0.93712	0.9795	0.96712	
chr8	144242432	144242542	6	0.9699	0.9735	0.95444	0.929	0.96272	0.97357	0.92992	0.97983	0.97833	
chr8	144242769	144242847	5	0.9592	0.974	0.95117	0.8642	0.9612	0.96264	0.9365	0.9614	0.9842	
chr8	144242962	144243333	5	0.9747	0.9522	0.95923	0.9606	0.96527	0.97768	0.8968	0.961	0.9768	
chr8	144243436	144243774	12	0.96729	0.9551	0.96326	0.94917	0.96013	0.96473	0.91296	0.98467	0.96625	
chr8	144243541	144243630	5	0.9764	0.938	0.97057	0.9638	0.96358	0.97116	0.9361	0.9864	0.9574	
chr8	144243884	144244027	8	0.97095	0.9579	0.96875	0.96588	0.97427	0.97345	0.94913	0.98513	0.97387	
chr8	144244036	144244778	20	0.96642	0.9591	0.96373	0.96175	0.97162	0.97419	0.94715	0.97535	0.95875	
chr8	144244079	144244245	5	0.97086	0.979	0.95963	0.9806	0.966	0.97288	0.9643	0.9694	0.9596	
chr8	144245194	144245233	5	0.97203	0.9682	0.96573	0.9718	0.9666	0.97912	0.9856	0.9624	0.9688	
chr8	144247335	144247392	5	0.96374	0.9276	0.96207	0.9722	0.95267	0.96764	0.9406	0.9686	0.9888	
chr8	144247585	144247630	6	0.96028	0.9525	0.96314	0.96083	0.95745	0.963	0.95775	0.99083	0.9795	

***FIG. 6* (Continued)**

chr8	144248099	144248302	6	0.94533	0.9647	0.97033	0.94736	0.957	0.9688	0.96092	0.9674	0.9593	0.8946	0.93892	0.96136
chr8	144250198	144250238	5	0.9688	0.9727	0.96165	0.95912	0.9448	0.9254	0.9552	0.9538	0.9522	0.8926	0.9404	0.97337
chr8	144250222	144250321	8	0.97275	0.9714	0.97191	0.9559	0.96962	0.9625	0.9585	0.9716	0.9648	0.9434	0.95613	0.97046
chr8	144250279	144250462	7	0.96114	0.9739	0.9705	0.96311	0.95343	0.9647	0.96521	0.9661	0.9437	0.9256	0.93686	0.96664
chr8	144251667	144251743	6	0.88583	0.9694	0.961	0.9234	0.95383	0.9363	0.94267	0.9653	0.907	0.9273	0.88458	0.93106
chr8	144251983	144252325	10	0.9474	0.9634	0.9742	0.95156	0.9672	0.9362	0.9748	0.9453	0.9483	0.9225	0.89875	0.95753
chr8	144253067	144253572	20	0.9771	0.9706	0.97166	0.95758	0.968	0.9565	0.97315	0.9611	0.9606	0.9515	0.94505	0.96988
chr8	144253109	144253572	18	0.979	0.974	0.97174	0.95777	0.96772	0.9605	0.97325	0.9637	0.9576	0.9516	0.94642	0.96791
chr8	144253201	144253546	11	0.97591	0.9836	0.96793	0.96162	0.958	0.9616	0.97209	0.962	0.9552	0.9485	0.94064	0.9663
chr8	144253268	144253572	15	0.97747	0.9811	0.97188	0.95883	0.9656	0.9685	0.97333	0.9601	0.9647	0.9532	0.94987	0.96631
chr8	144253318	144253377	6	0.977	0.9859	0.97025	0.9627	0.95333	0.9772	0.97533	0.9765	0.9718	0.9824	0.96117	0.97203
chr8	144253543	144253572	6	0.9795	0.9721	0.97812	0.95827	0.97633	0.9845	0.97317	0.9579	0.9783	0.9563	0.96817	0.96303
chr8	144253638	144254103	10	0.9586	0.9718	0.95588	0.95118	0.9665	0.9368	0.9797	0.9536	0.9356	0.9232	0.9091	0.97148
chr8	144254764	144254844	5	0.9592	0.9885	0.97785	0.93952	0.9928	0.9396	0.9966	0.9653	0.9746	0.9671	0.9612	0.97373
chr8	144254902	144254979	7	0.95643	0.9639	0.97382	0.92697	0.971	0.9681	0.96779	0.9586	0.9664	0.9497	0.92929	0.9696
chr8	144254939	144254979	5	0.968	0.9657	0.97365	0.93268	0.9756	0.9614	0.971	0.9634	0.9692	0.9624	0.9522	0.97643
chr8	144255931	144256111	6	0.9575	0.9806	0.96387	0.96637	0.97833	0.9458	0.95092	0.9777	0.9513	0.9546	0.9155	0.96581
chr8	144256703	144256919	10	0.9697	0.974	0.97542	0.96326	0.9211	0.955	0.9712	0.9598	0.9268	0.9085	0.92525	0.96597
chr8	144261319	144261407	5	0.9728	0.9756	0.9591	0.93668	0.9576	0.9224	0.9742	0.9674	0.9882	0.9703	0.9496	0.95103
chr8	144261692	144261764	6	0.95583	0.967	0.97283	0.93467	0.97167	0.9603	0.94375	0.9607	0.9662	0.9477	0.928	0.93497
chr8	144262920	144262998	7	0.97857	0.9736	0.97064	0.94586	0.95743	0.9556	0.94221	0.9565	0.9637	0.9638	0.96786	0.96267
chr8	144262947	144263022	7	0.97543	0.9776	0.9775	0.95609	0.956	0.9466	0.96021	0.9584	0.9689	0.9836	0.97321	0.96852
chr8	144262995	144263040	6	0.98033	0.9765	0.97313	0.9511	0.9645	0.951	0.97358	0.9606	0.9612	0.9733	0.97083	0.96036
chr8	144263870	144264054	9	0.97033	0.9742	0.96336	0.95273	0.96667	0.9863	0.96783	0.9665	0.9601	0.9713	0.95306	0.96739
chr8	144263925	144264054	8	0.96662	0.971	0.96044	0.9519	0.9625	0.9846	0.96381	0.9705	0.9614	0.9712	0.95806	0.96896
chr8	144263996	144264066	7	0.97729	0.9754	0.96389	0.9564	0.95614	0.9879	0.9605	0.9615	0.9671	0.9727	0.95971	0.96221
chr8	144264263	144264421	12	0.97267	0.9701	0.97237	0.93733	0.94575	0.9618	0.95887	0.9648	0.9629	0.9597	0.97367	0.96344
chr8	144264268	144264384	8	0.97725	0.9741	0.97528	0.93993	0.92887	0.9529	0.95169	0.9717	0.9625	0.9683	0.972	0.96521
chr8	144264390	144264558	9	0.94078	0.9857	0.96292	0.95293	0.95889	0.9556	0.97372	0.9614	0.9867	0.9514	0.96244	0.97276
chr8	144264929	144265031	7	0.98043	0.9722	0.95996	0.92586	0.93843	0.961	0.95714	0.9433	0.9449	0.9596	0.93986	0.95264

FIG. 6 **(Continued)**

chr8	144248099	144248302	6	0.95738	0.9688	0.962	0.94733	0.96864	0.95917	0.92942	0.97483	0.96033
chr8	144250198	144250238	5	0.9636	0.965	0.9691	0.945	0.97113	0.9648	0.9199	0.9678	0.9504
chr8	144250222	144250321	8	0.96598	0.9693	0.96683	0.96925	0.96715	0.9706	0.96144	0.97712	0.97762
chr8	144250279	144250462	7	0.9632	0.9594	0.97252	0.94443	0.96357	0.97263	0.9305	0.97443	0.96771
chr8	144251667	144251743	6	0.93907	0.93	0.93389	0.94433	0.94497	0.9517	0.92733	0.91367	0.94967
chr8	144251983	144252325	10	0.95993	0.9749	0.96187	0.962	0.96978	0.9706	0.92795	0.9737	0.9773
chr8	144253067	144253572	20	0.96501	0.9738	0.96743	0.9594	0.9692	0.96797	0.95768	0.96635	0.968
chr8	144253109	144253572	18	0.96684	0.9708	0.96846	0.961	0.96945	0.96887	0.95722	0.96972	0.96633
chr8	144253201	144253546	11	0.97508	0.9741	0.97174	0.96455	0.97271	0.97585	0.95286	0.97409	0.96491
chr8	144253268	144253572	15	0.96899	0.9737	0.96991	0.95547	0.971	0.96947	0.96227	0.97627	0.96107
chr8	144253318	144253377	6	0.9779	0.9758	0.97608	0.9655	0.97389	0.97847	0.97642	0.9695	0.96517
chr8	144253543	144253572	6	0.95833	0.9683	0.96439	0.94367	0.96811	0.96237	0.96617	0.981	0.96083
chr8	144253638	144254103	10	0.97474	0.9837	0.96775	0.9654	0.96587	0.9683	0.94805	0.9821	0.9642
chr8	144254764	144254844	5	0.96077	0.9684	0.9703	0.965	0.96727	0.96948	0.9498	0.9726	0.9928
chr8	144254902	144254979	7	0.96276	0.9677	0.95838	0.97129	0.95448	0.9634	0.97179	0.97814	0.97057
chr8	144254939	144254979	5	0.96517	0.9772	0.96703	0.9708	0.96003	0.96704	0.9747	0.9794	0.9812
chr8	144255931	144256111	6	0.96293	0.9737	0.95994	0.926	0.96072	0.96783	0.92825	0.9535	0.965
chr8	144256703	144256919	10	0.96743	0.9631	0.96068	0.9255	0.97205	0.97348	0.86975	0.9832	0.9615
chr8	144261319	144261407	5	0.9566	0.9226	0.94683	0.9434	0.9538	0.96652	0.9415	0.9512	0.9478
chr8	144261692	144261764	6	0.92574	0.9507	0.92836	0.96183	0.933	0.96357	0.9285	0.97067	0.9625
chr8	144262920	144262998	7	0.96414	0.9679	0.94867	0.97071	0.95493	0.98083	0.95393	0.98529	0.95714
chr8	144262947	144263022	7	0.9712	0.965	0.94926	0.96643	0.96338	0.98286	0.965	0.98243	0.94571
chr8	144262995	144263040	6	0.96712	0.9537	0.94681	0.95683	0.96414	0.98127	0.97092	0.9825	0.94667
chr8	144263870	144264054	9	0.96548	0.9387	0.95348	0.95822	0.9645	0.96738	0.95389	0.98622	0.96978
chr8	144263925	144264054	8	0.97443	0.9435	0.96144	0.953	0.96665	0.9695	0.95512	0.9845	0.97375
chr8	144263996	144264066	7	0.97135	0.933	0.95238	0.96243	0.96086	0.964	0.9395	0.98657	0.967
chr8	144264263	144264421	12	0.96467	0.9209	0.9521	0.95425	0.95844	0.97357	0.94683	0.98558	0.96642
chr8	144264268	144264384	8	0.97075	0.9239	0.95852	0.95275	0.9643	0.97905	0.96287	0.983	0.96525
chr8	144264390	144264558	9	0.95998	0.9542	0.95307	0.97522	0.9588	0.97316	0.94911	0.97733	0.986
chr8	144264929	144265031	7	0.94653	0.921	0.92048	0.95557	0.93883	0.9704	0.93457	0.95971	0.96457

FIG. 6 **(Continued)**

chr8	144265063	144265129	5	0.956	0.9841	0.9752	0.95964	0.9496	0.9812	0.9718	0.977	0.9696	0.969	0.9186	0.96673
chr8	144268190	144268284	5	0.9566	0.9687	0.9497	0.95444	0.9722	0.9572	0.9548	0.9705	0.965	0.9464	0.9402	0.95927
chr8	144268314	144268377	6	0.97617	0.9734	0.98129	0.93763	0.98617	0.9518	0.9515	0.9703	0.9583	0.9698	0.95758	0.97956
chr8	144269353	144269395	5	0.9862	0.9781	0.96255	0.95376	0.9564	0.9346	0.9488	0.938	0.9746	0.958	0.9468	0.96523
chr8	144270156	144270257	8	0.97137	0.9741	0.98559	0.95593	0.97012	0.9681	0.97175	0.9805	0.9628	0.9631	0.96394	0.97488
chr8	144270174	144270257	5	0.9732	0.9715	0.98565	0.95952	0.9642	0.969	0.9671	0.9846	0.9444	0.9607	0.9656	0.9765
chr8	144272173	144272345	5	0.9364	0.9543	0.96985	0.96464	0.974	0.9544	0.9751	0.9635	0.9614	0.9484	0.9402	0.96433
chr8	144273116	144273136	5	0.9672	0.9601	0.95065	0.94912	0.9572	0.9752	0.9831	0.9569	0.9724	0.9653	0.9727	0.96073
chr8	144273810	144273889	7	0.97857	0.9753	0.97557	0.92517	0.95929	0.984	0.97286	0.962	0.9341	0.9275	0.9045	0.95681
chr8	144276103	144276274	7	0.98586	0.9831	0.98168	0.95377	0.98429	0.9481	0.97936	0.9906	0.997	0.9772	0.94486	0.96726
chr8	144276114	144276274	6	0.99167	0.9863	0.97863	0.96167	0.98167	0.954	0.98525	0.9916	0.9965	0.9757	0.94758	0.97267
chr8	144276952	144277053	7	0.979	0.9775	0.96429	0.95434	0.95186	0.9541	0.96986	0.9327	0.9684	0.9581	0.93764	0.97014
chr8	144277480	144277607	8	0.96937	0.9675	0.96487	0.94698	0.952	0.9546	0.96062	0.9769	0.9764	0.9587	0.95813	0.9601
chr8	144315053	144315076	3	0.795	0.9908	0.97942	0.9548	0.93167	0.9733	0.9805	0.97	0.9243	0.9602	0.09033	0.94567
chr9	18052	18114	5	0.9758	0.9737	0.97565	0.9616	0.9736	NaN	0.9602	0.964	0.9736	0.9592	0.9677	0.9653
chr9	1045229	1045240	2	0.1	0.1258	0.117	0.09875	NaN	0.25	0.05	0.0695	NaN	0.2493	0	0.39
chr9	4086615	4086635	2	NaN	0.8612	0.91525	0.31025	1	0.923	NaN	0.8378	0.923	1	1	0.70175
chr9	4956980	4957084	10	NaN	0.9879	0.97353	0.9816	0.9678	0.9337	0.95575	0.9462	0.9553	0.9692	0.97245	0.96378
chr9	4957044	4957084	5	0.9778	0.9917	0.9779	0.9808	0.976	0.9252	0.9597	0.9583	0.9772	0.9803	0.9774	0.95993
chr9	6768123	6768130	2	0.75	0.9108	0.9415	0.8433	0.941	0.943	0.2805	0.948	0.9425	0.9773	0.923	0.93312
chr9	6807077	6807143	8	0.98137	0.9725	0.96294	0.96542	0.99538	0.9489	0.95025	0.9523	0.9755	0.9913	0.96669	0.96
chr9	33318994	33319142	4	0.989	0.9708	0.95788	0.92815	0.9725	0.97	0.952	0.9716	0.9743	0.9798	0.96175	0.93354
chr9	34128439	34128488	5	0.9668	0.9765	0.96325	0.94032	0.9656	0.9792	0.9507	0.9443	0.9226	0.9337	0.9575	0.95733
chr9	34128479	34128564	6	0.96283	0.9769	0.95929	0.94377	0.954	0.9583	0.96983	0.9561	0.9033	0.9342	0.9405	0.96717
chr9	34128517	34128669	7	0.96057	0.9766	0.97286	0.95357	0.93857	0.927	0.96664	0.9682	0.9191	0.9159	0.94757	0.9745
chr9	34128541	34128609	5	0.9564	0.9714	0.97485	0.95276	0.955	0.942	0.9658	0.9605	0.9204	0.9411	0.9468	0.9764
chr9	34128561	34128669	5	0.968	0.9783	0.9792	0.95364	0.943	0.9176	0.9648	0.968	0.9456	0.9164	0.9555	0.97873
chr9	36458596	36458660	5	0.0768	0.0051	0.0035	0.00892	0.0572	0.004	0.0112	0	0.013	0	0.1009	0.02843
chr9	36492767	36492800	3	0.94867	0.0497	0.10525	0.91053	0.17633	0.1727	0.8825	0.8612	0.1363	0.3535	0.94133	0.91039
chr9	36580306	36580343	4	0.95825	0.9557	0.93875	0.9408	0.94975	0.9575	0.87925	0.0695	0.8698	0.4886	0.97475	0.96608

FIG. 6 (Continued)

chr8	144265063	144265129	5	0.95423	0.9422	0.95553	0.9592	0.9469	0.97276	0.9493	0.9648	0.974	
chr8	144268190	144268284	5	0.93957	0.9552	0.9501	0.9792	0.95143	0.95476	0.9361	0.9634	0.9892	
chr8	144268314	144268377	6	0.96421	0.946	0.96406	0.98533	0.97108	0.97333	0.96242	0.96433	0.96267	
chr8	144269353	144269395	5	0.96903	0.9496	0.9623	0.7664	0.97193	0.93884	0.87	0.9746	0.9726	
chr8	144270156	144270257	8	0.97559	0.9788	0.96417	0.93475	0.96894	0.97133	0.92069	0.98787	0.98012	
chr8	144270174	144270257	5	0.97349	0.9762	0.95907	0.922	0.9634	0.96884	0.9215	0.9938	0.9832	
chr8	144272173	144272345	5	0.95946	0.9954	0.9472	0.8876	0.95983	0.97068	0.8842	0.9676	0.9398	
chr8	144273116	144273136	5	0.97194	0.9512	0.9425	0.9462	0.95223	0.97852	0.9739	0.9704	0.9818	
chr8	144273810	144273889	7	0.96506	0.8981	0.94605	0.97529	0.95412	0.97731	0.95979	0.96914	0.98243	
chr8	144276103	144276274	7	0.96649	0.9749	0.96155	0.96629	0.96548	0.98057	0.90457	0.97371	0.971	
chr8	144276114	144276274	6	0.96648	0.977	0.96544	0.96383	0.96939	0.98537	0.92183	0.9725	0.9715	
chr8	144276952	144277053	7	0.97129	0.9534	0.9559	0.98229	0.96257	0.98263	0.92557	0.97371	0.97357	
chr8	144277480	144277607	8	0.96414	0.9596	0.95398	0.95713	0.96506	0.97657	0.94138	0.98163	0.9765	
chr8	144315053	144315076	3	0.95043	0.84	0.92556	0.983	0.95394	0.97767	0.94317	0.98067	0.99033	
chr9	18052	18114	5	0.96263	0.99	0.96933	0.974	0.97547	0.97233	0.9632	0.9508	1	
chr9	1045229	1045240	2	0.08633	0	0.15793	0.05	0.1274	0.20508	0.30275	0.1	0.55	
chr9	4086615	4086635	2	0.38658	NaN	0.22175	1	0.36217	0.9887	0.78225	0.9055	0.95	
chr9	4956980	4957084	10	0.97526	0.9302	0.95948	NaN	0.95727	0.97662	0.9755	0.9627	0.9722	
chr9	4957044	4957084	5	0.97817	0.9006	0.95577	0.9782	0.95067	0.97827	0.9572	0.9794	1	
chr9	6768123	6768130	2	0.9195	0.8075	0.92208	1	0.89483	0.9571	0.919	0.936	0.889	
chr9	6807077	6807143	8	0.97455	0.9818	0.97481	0.9615	0.96942	0.9621	0.94181	0.99	0.97713	
chr9	33318994	33319142	4	0.92593	NaN	0.03608	0.985	0.88225	0.9765	0.95237	0.98225	0.96975	
chr9	34128439	34128488	5	0.95414	0.973	0.9566	0.1462	0.94567	0.84832	0.0613	0.896	0.931	
chr9	34128479	34128564	6	0.95533	0.9462	0.96097	0.12717	0.95772	0.85303	0.1015	0.8805	0.94383	
chr9	34128517	34128669	7	0.95771	0.9396	0.96105	NaN	0.9604	0.88834	0.08629	0.935	0.90886	
chr9	34128541	34128609	5	0.9552	0.9304	0.96423	NaN	0.96017	0.88932	0.0871	0.9302	0.9368	
chr9	34128561	34128669	5	0.95846	0.942	0.96387	NaN	0.96213	0.90276	0.0747	0.959	0.9006	
chr9	36458596	36458660	5	0.02583	0.013	0.00083	0.0568	0.00237	0.0078	0.0249	0.0036	0.111	
chr9	36492767	36492800	3	0.89376	0.963	0.94911	0.899	0.90678	0.93953	0.859	0.92767	0.64567	
chr9	36580306	36580343	4	0.94675	0.9403	0.95487	0.97775	0.95971	0.96395	0.93512	0.94625	0.9245	

FIG. 6 **(Continued)**

chr9	37378854	37378919	5	0.9696	0.9705	0.9721	0.956	0.9776	NaN	0.9609	0.965	0.94	0.9159	0.9198	0.96307
chr9	37409233	37409281	4	0.92375	0.9022	0.82931	0.90405	0.24525	0.0433	0.889	0.8439	0.15	0.0968	0.87925	0.93388
chr9	39579854	39579921	7	0.92529	0.961	0.96575	0.93849	0.94714	0.9257	0.94714	0.9724	0.9644	0.9504	0.91629	0.96857
chr9	39590996	39591055	5	0.8982	0.9622	0.98255	0.96024	0.9702	0.9786	0.9818	0.9467	0.9446	0.9587	0.8392	0.99007
chr9	41401401	41401456	5	0.9794	0.9353	0.95642	0.91236	0.9824	0.962	0.9627	0.9251	0.9358	0.9463	0.9743	0.95093
chr9	42330050	42330098	5	0.9336	0.9715	0.9631	0.97232	0.9938	0.9594	0.9792	0.9712	0.9352	0.9564	0.9415	0.982
chr9	42336761	42336816	5	0.8644	0.9685	0.97065	0.9624	0.9606	NaN	0.9678	0.9347	0.9318	0.9669	0.8696	0.95025
chr9	42336802	42336906	6	0.918	0.9739	0.97242	0.94677	0.96417	0.9585	0.965	0.9565	0.9527	0.9372	0.87117	0.95504
chr9	42452957	42453004	5	0.9236	0.9822	0.96305	0.96304	0.9688	0.9358	0.9538	0.9517	0.9338	0.969	0.9118	0.97427
chr9	42453150	42453215	6	0.9095	0.9618	0.951	0.95447	0.98883	0.9845	0.95258	0.9163	0.95	0.9541	0.94825	0.96633
chr9	42454735	42454816	10	0.935	0.9756	0.9744	0.9534	0.9663	0.9609	0.96285	0.9611	0.9321	0.951	0.9093	0.95686
chr9	42454783	42454847	8	0.93337	0.9791	0.96566	0.95516	0.95388	0.9498	0.96919	0.9724	0.9365	0.9656	0.9125	0.96722
chr9	42454792	42454836	5	0.932	0.9709	0.9723	0.95666	0.9434	0.9444	0.9611	0.9799	1	0.9653	0.9231	0.96579
chr9	62711406	62711437	5	0.9764	0.9812	0.9947	0.95435	1	0.96	0.9734	1	1	0.9819	NaN	0.97108
chr9	62711458	62711518	8	0.92688	0.9731	0.97531	0.94637	0.98362	0.9838	0.95888	0.9711	0.9573	0.9819	0.95225	0.9694
chr9	64773688	64773694	2	0	0.0462	0.13988	0.0183	0.025	0	0.0325	0.0113	NaN	0.0245	0.01625	0.008
chr9	65822174	65822243	5	0.9826	0.9747	0.9745	0.9646	0.9856	1	0.9719	0.9765	0.9178	0.9812	0.9314	0.9829
chr9	71217098	71217153	5	NaN	0.997	0.94755	0.97976	1	1	0.9589	0.9742	0.919	0.9808	NaN	0.96977
chr9	72346219	72346253	3	0.94233	0.9636	0.92725	0.91767	0.608	0.2743	0.958	0.9408	0.6667	0.7238	0.90067	0.963
chr9	75149345	75149381	4	0.91875	0.9796	0.95275	0.02396	NaN	0.9845	0.11613	0.9206	0.934	0.9305	0.9655	0.01984
chr9	77377363	77377382	5	1	0.9897	0.97665	0.97688	1	0.9818	0.9647	0.9784	NaN	0.9554	0.9923	0.98633
chr9	79887388	79887407	5	1	0.9783	0.9788	0.97968	1	0.9776	0.973	0.9702	0.9846	0.9533	0.9722	0.97836
chr9	81655191	81655321	9	0.97367	0.9734	0.96189	0.94567	0.94411	0.9538	0.92656	0.9633	0.9026	0.9032	0.91011	0.95487
chr9	83622207	83622226	5	1	0.9767	0.9703	0.97816	0.9888	0.977	0.9794	0.9785	0.9676	1	0.951	0.97533
chr9	84889134	84889193	6	0.938	0.9776	0.96825	0.96333	0.97433	0.9848	0.95167	0.9804	0.9798	0.9602	0.90208	0.97431
chr9	87132506	87132561	5	1	1	0.96145	0.95528	0.9778	0.9724	0.9827	0.9539	1	0.9418	0.9611	0.95993
chr9	89481585	89481707	5	0.9164	0.0623	0.09485	0.94516	0.0222	0.0618	0.9281	0.4919	0.0292	0.1182	0.9	0.9572
chr9	91164799	91164828	3	0	0.444	0.11108	0.0156	0.72	0.573	0.00783	0	0.1257	0.0148	0.00783	0.026
chr9	93124955	93125056	6	0.97367	0.9676	0.96667	0.88883	0.96483	0.952	0.9145	0.9328	0.9363	0.9355	0.90942	0.90814
chr9	93124978	93125056	5	0.9684	0.9689	0.9645	0.88548	0.9732	0.9472	0.9108	0.9343	0.9486	0.9466	0.9196	0.90977

FIG. 6 **(Continued)**

chr9	37378854	37378919	5	0.95563	0.9738	0.9504	0.7858	0.95677	0.96332	0.1667	0.979	0.9526	
chr9	37409233	37409281	4	0.92739	0.917	0.92854	0.0125	0.90621	0.00975	0.06213	0.05625	0.35425	
chr9	39579854	39579921	7	0.95566	0.9779	0.96895	0.94529	0.95664	0.95326	0.93143	0.95129	0.97829	
chr9	39590996	39591055	5	0.97229	0.9526	0.95897	0.9504	0.97007	0.94621	0.9076	0.9186	0.9426	
chr9	41401401	41401456	5	0.9706	0.9784	0.93683	0.9478	0.94643	0.94696	0.9496	0.9452	0.9224	
chr9	42330050	42330098	5	0.95917	0.9852	0.9657	0.967	0.97343	0.97256	0.914	0.971	0.9834	
chr9	42336761	42336816	5	0.95677	0.9612	0.94571	0.954	0.94353	0.96244	0.8896	0.9492	0.9246	
chr9	42336802	42336906	6	0.95367	0.9908	0.94933	0.92983	0.94578	0.96907	0.91167	0.96267	0.902	
chr9	42452957	42453004	5	0.96577	0.9708	0.9626	0.9508	0.97337	0.9768	0.8662	0.976	0.9342	
chr9	42453150	42453215	6	0.95569	0.9545	0.97683	0.84917	0.94614	0.96127	0.92167	0.97433	NaN	
chr9	42454735	42454816	10	0.96472	0.9514	0.96343	0.9466	0.95137	0.97044	0.9514	0.9599	0.9697	
chr9	42454783	42454847	8	0.96737	0.9594	0.96083	0.9675	0.96102	0.97066	0.93837	0.96588	0.97337	
chr9	42454792	42454836	5	0.97107	0.9654	0.964	0.9638	0.9631	0.97142	0.9386	0.9694	0.9764	
chr9	62711406	62711437	5	0.967	1	0.97896	0.9874	0.98904	0.95728	1	0.99	0.9596	
chr9	62711458	62711518	8	0.96064	0.9725	0.95938	0.97625	0.96291	0.9692	0.96137	0.96462	0.97213	
chr9	64773688	64773694	2	0.3145	NaN	0.0387	0.089	0.06283	0.02063	0	0	0.1215	
chr9	65822174	65822243	5	0.97394	0.9754	0.96217	0.9752	0.9709	0.954	0.9622	0.9856	0.9484	
chr9	71217098	71217153	5	0.96111	0.9876	0.95861	1	0.94823	0.96268	0.9344	1	0.9786	
chr9	72346219	72346253	3	0.96795	0.9677	0.95789	0.96633	0.96572	0.95813	0.936	0.97633	0.90933	
chr9	75149345	75149381	4	0.05038	0.076	0.01216	0.96375	0.03981	0.95594	0.954	0.98025	0.935	
chr9	77377363	77377382	5	0.98634	0.9876	0.97763	1	0.97721	0.97552	0.9814	1	1	
chr9	79887388	79887407	5	0.96954	0.968	0.96333	0.99	0.97827	0.96964	0.9897	1	0.9734	
chr9	81655191	81655321	9	0.95949	0.6174	0.91594	0.004	0.96081	0.05626	0.19161	0.95589	0.93878	
chr9	83622207	83622226	5	0.96006	0.9724	0.95677	0.9544	0.96983	0.97153	0.9532	1	0.9648	
chr9	84889134	84889193	6	0.9641	0.9488	0.96562	0.9725	0.97269	0.95883	0.95108	0.973	1	
chr9	87132506	87132561	5	0.95471	0.9524	0.97728	0.99	0.96297	0.98249	0.9923	0.9578	0.9444	
chr9	89481585	89481707	5	0.94283	0.8708	0.9346	0.951	0.93563	0.9492	0.9359	0.9746	0.0806	
chr9	91164799	91164828	3	0.00776	0.0053	0.03739	0.56733	0.00228	0.13607	0.44567	0.24033	0.67167	
chr9	93124955	93125056	6	0.91469	0.1205	0.87606	0.975	0.91481	0.96897	0.90675	0.978	0.955	
chr9	93124978	93125056	5	0.91031	0.0988	0.872	0.9726	0.9156	0.96724	0.9203	0.9794	0.9498	

FIG. 6 **(Continued)**

chr9	94808258	94808331	4	0.89375	0.9808	0.97681	0.94151	0.98025	0.9728	0.9605	0.947	0.9475	0.9556	0.92875	0.96775
chr9	98831834	98831879	5	0.9606	0.9749	0.9504	0.97572	0.9676	0.9598	0.9778	0.9708	0.953	0.959	0.8928	0.97407
chr9	98831852	98831879	4	0.9725	0.9726	0.94725	0.9733	0.9745	0.9565	0.97962	0.9743	0.965	0.9608	0.8925	0.97308
chr9	99101110	99101134	2	0.9335	0.949	0.8205	0.9222	0.95	0.799	0.86675	0.0228	0.531	0.0735	0.9645	0.97117
chr9	99262966	99263129	5	0.9378	0.9799	0.9702	0.95408	0.9774	0.9654	0.9512	0.9637	0.9332	0.9302	0.9333	0.9535
chr9	100410465	100410521	5	0.9574	0.9751	0.9619	0.01032	0.9218	0.98	0.1995	0.9728	0.9874	0.9711	0.9617	0.04043
chr9	100410493	100410521	4	0.95875	0.9723	0.963	0	0.9265	0.975	0.21075	0.9751	0.988	0.9673	0.96025	0.03421
chr9	111895397	111895432	4	0.958	0.9773	0.95725	0.9623	0.97525	0.938	0.96162	0.9595	0.9643	0.9809	0.96887	0.95971
chr9	111986774	111986867	6	0.96367	0.9389	0.85717	0.9038	0.63717	0.6143	0.82292	0.5688	0.6718	0.3369	0.90108	0.95833
chr9	112064594	112064615	3	0.96567	0.9784	0.97617	0.00393	0.971	0.922	0.12633	0.9385	0.9903	0.9705	0.91433	0.309
chr9	112064612	112064652	2	NaN	0.9785	0.97088	0.04688	0.9615	0.934	0.19025	0.9653	0.974	0.958	0.91225	0.43688
chr9	112803990	112804009	5	NaN	0.9872	0.98945	0.92037	1	1	0.9733	1	1	0.9757	1	0.99583
chr9	116465378	116465438	5	0.517	0.9826	0.97225	0.9428	0.969	0.9492	0.9601	0.9534	0.97	0.9787	0.1587	0.96147
chr9	120918104	120918146	3	0.97867	0.9369	0.94583	0.91093	0.67433	0.649	0.96433	0.9793	0.8237	0.848	0.9085	0.94578
chr9	121734203	121734247	5	1	1	0.98215	0.95907	0.9056	0.9666	0.9362	0.9929	0.97	0.9864	0.9687	0.9725
chr9	121734232	121734251	5	1	1	0.98635	0.97279	0.95	1	0.9516	0.9817	0.97	0.9805	1	0.99167
chr9	124309727	124309836	5	0.9706	0.9705	0.9606	0.938	0.9548	0.9926	0.9631	0.9521	0.987	0.962	0.9083	0.9619
chr9	124392338	124392450	5	0.9622	0.9649	0.91775	0.03184	0.9452	0.956	0.1494	0.9437	0.9522	0.9368	0.9392	0.04403
chr9	125328889	125328920	5	1	0.9813	0.97635	0.97612	0.9866	0.9858	0.942	0.9777	0.9632	0.9724	0.9655	0.9747
chr9	127563178	127563187	2	0.9555	0.9782	0.95	NaN	0.9285	0.8985	NaN	0.943	0.912	0.93	0.932	0.27
chr9	127836849	127836858	2	0.911	0.9522	0.9765	0.02018	0.903	0.9605	0.25325	0.9615	0.8905	0.958	0.95575	0.02875
chr9	127866667	127866822	8	0.989	0.9676	0.95819	0.94738	0.9325	0.9619	0.94175	0.9458	0.9416	0.9465	0.96275	0.96848
chr9	127866717	127866822	7	0.98743	0.9668	0.95607	0.95029	0.93586	0.9686	0.94407	0.9531	0.9467	0.9558	0.97364	0.97045
chr9	127866719	127866787	5	0.9906	0.9633	0.9596	0.9452	0.9252	0.969	0.9449	0.9534	0.9478	0.9608	0.9769	0.9707
chr9	127963394	127963415	3	NaN	0.0574	0.17656	0.92393	0.42867	0.862	0.981	0.9387	0.738	0.9543	0.94283	0.97367
chr9	127984321	127984432	5	0.9562	0.9427	0.96045	0.93784	0.914	0.9452	0.9705	0.9512	0.95	0.9618	0.9068	0.97327
chr9	128910873	128910890	3	0.95367	0.8508	0.28617	0.91793	0.883	0.698	0.91383	0.8342	0.884	0.8205	0.9245	0.918
chr9	129343869	129343955	5	0.9056	0.9768	0.9398	0.00624	0.9524	0.9122	0.1379	0.8593	0.9422	0.9202	0.835	0.00787
chr9	129981364	129981381	2	0.9515	0.9575	0.9505	0.6128	0.952	0.9665	0.66575	0.842	0.942	0.9505	0.9345	0.13408
chr9	130006408	130006650	6	0.95417	0.9259	0.95921	0.94527	0.89333	0.9085	0.96217	0.9536	0.871	0.9012	0.90175	0.96603

***FIG. 6* (Continued)**

SUBSTITUTE SHEET (RULE 26)

chr9	94808258	94808331	4	0.96539	0.9608	0.9685	0.11025	0.96038	0.7573	0.81563	0.98275	0.95225		
chr9	98831834	98831879	5	0.97971	0.8062	0.09687	0.947	0.96947	0.96648	0.914	0.9756	0.978		
chr9	98831852	98831879	4	0.97939	0.7868	0.06375	0.93825	0.96808	0.96545	0.90375	0.975	0.97675		
chr9	99101110	99101134	2	0.96143	1	0.94058	1	0.95508	0.9179	0.93925	0.9655	0.9545		
chr9	99262966	99263129	5	0.95783	0.964	0.93603	0.147	0.95227	0.90036	0.093	0.9884	0.9578		
chr9	100410465	100410521	5	0.03791	0.9048	0.03793	0.9642	0.03193	0.95336	0.9503	0.9772	0.969		
chr9	100410493	100410521	4	0.03618	0.9058	0.01979	0.958	0.031	0.9525	0.952	0.98425	0.96625		
chr9	111895397	111895432	4	0.94389	0.9783	0.08617	0.84625	0.95196	0.9343	0.96925	0.96225	0.98575		
chr9	111986774	111986867	6	0.93021	0.9632	0.92314	0.16233	0.94808	0.88337	0.11858	0.98417	0.81067		
chr9	112064594	112064615	3	0.25952	0.951	0.90061	0.24033	0.80189	0.76873	0.71817	1	0.97033		
chr9	112064612	112064652	2	0.42993	0.8925	0.882	0.48	0.8325	0.8355	0.7555	1	0.934		
chr9	112803990	112804009	5	0.98691	0.9778	0.952	0.9544	0.96723	0.98207	1	0.9778	1		
chr9	116465378	116465438	5	0.96134	0.8758	0.9576	0.9546	0.95933	0.97252	0.9109	0.9368	0.9734		
chr9	120918104	120918146	3	0.95271	0.936	0.96144	0.93467	0.94444	0.9704	0.6995	0.966	0.36767		
chr9	121734203	121734247	5	0.98529	0.9778	0.95473	0.9484	0.9616	0.94404	0.98	0.9606	0.975		
chr9	121734232	121734251	5	0.98886	0.9578	0.96147	0.975	0.96847	0.94356	1	0.9588	0.9692		
chr9	124309727	124309836	5	0.95509	0.9732	0.9579	0.9286	0.97093	0.97648	0.943	0.9788	0.9582		
chr9	124392338	124392450	5	0.05054	0.0074	0.0023	0.9678	0.04607	0.96636	0.9302	0.9792	0.9626		
chr9	125328889	125328920	5	0.96157	0.9242	0.94177	0.9412	0.95733	0.97492	0.9603	1	0.9694		
chr9	127563178	127563187	2	NaN	0.935	0.93575	0.9115	0.88933	0.967	0.8675	0.9695	0.9325		
chr9	127836849	127836858	2	0.04713	0.879	0.92517	0.9325	0.89433	0.9525	0.91375	0.9555	0.9775		
chr9	127866667	127866822	8	0.96355	0.9491	0.95923	0.04238	0.96608	0.87285	0.1085	0.9565	0.944		
chr9	127866717	127866822	7	0.96745	0.9629	0.96764	0.03614	0.97088	0.8742	0.11129	0.96286	0.944		
chr9	127866719	127866787	5	0.96637	0.957	0.97423	0.0278	0.97507	0.86404	0.1139	0.9574	0.9454		
chr9	127963394	127963415	3	0.94957	0.9553	0.95814	0.41933	0.94312	0.8671	0.43117	0.974	0.30633		
chr9	127984321	127984432	5	0.95823	0.9302	0.9553	0.1116	0.95247	0.799	0.1191	0.9402	0.951		
chr9	128910873	128910890	3	0.93267	0.88	0.88128	0.886	0.92128	0.94907	0.827	0.986	0.81567		
chr9	129343869	129343955	5	0.00743	0.257	0.027	0.8832	0.0241	0.96429	0.7669	0.9362	0.9486		
chr9	129981364	129981381	2	0.16064	0.8905	0.91158	0.871	0.745	0.9766	0.818	0.9505	0.95		
chr9	130006408	130006650	6	0.95667	0.9627	0.95297	0.86583	0.958	0.94127	0.19158	0.964	0.83867		

FIG. 6 **(Continued)**

chr9	130137292	130137335	5	0.9804	0.9848	0.9496	0.90632	0.9804	0.9754	0.9467	0.9844	0.977	0.9758	0.9541	0.95303
chr9	130814263	130814282	3	0.95833	0.9073	0.88717	0.96293	0.21933	0.1125	0.97383	0.9458	NaN	0.2342	0.92983	0.95606
chr9	131252714	131252750	5	0.0254	0	0.00695	0.00692	0	0	0	0	0	0	0.0122	0.01197
chr9	131628629	131628635	2	0.976	0.9397	0.84988	0.947	0.9445	0.7385	0.80075	0.0863	0.733	0.091	0.986	0.96558
chr9	131725550	131725607	2	0.948	0.9852	0.974	0.8035	0.9065	0.9475	0.3905	0.945	0.969	0.906	0.92175	0.90733
chr9	132048691	132048756	5	0.9402	0.8599	0.80325	0.92396	0.9416	0.9268	0.9236	0.3041	0.9326	0.8947	0.9344	0.95993
chr9	132067749	132067766	2	0.916	0.9643	0.93075	0.9464	0.5	1	0.9035	0.9595	0.9705	0.9355	0.9705	0.94175
chr9	133441069	133441139	5	0.914	0.9331	0.9257	0.94116	0.8268	0.8704	0.9299	0.9293	0.8806	0.9137	0.864	0.9397
chr9	134124028	134124061	2	0.746	0.9558	0.91663	NaN	0.898	0.9125	NaN	0.925	0.8895	0.8458	0.87475	0.30325
chr9	134142640	134142721	5	0.9954	0.974	0.9658	0.88672	0.9888	0.9932	0.3962	0.9588	0.9848	0.9597	0.9317	0.89003
chr9	135952120	135952164	3	0.916	0.9816	0.98017	0.969	0.96533	0.9197	0.97033	0.9653	0.9603	0.974	0.05467	0.95939
chr9	136038768	136038885	5	0.9594	0.9675	0.97645	0.94384	0.9694	0.9774	0.9672	0.9828	0.9598	0.9728	0.9475	0.9719
chr9	136040322	136040835	9	NaN	0.9858	0.95906	0.96735	0.97611	0.9316	0.98206	0.9836	0.9387	0.9586	0.90556	0.973
chr9	136040562	136040941	7	0.98557	0.982	0.97454	0.96943	0.96557	0.948	0.97907	0.9716	0.9364	0.9519	0.89386	0.97288
chr9	136049573	136049707	9	0.96111	0.9775	0.96331	0.95962	0.95989	0.9503	0.97111	0.9642	0.9462	0.9617	0.95167	0.95731
chr9	136049716	136049787	6	0.95083	0.9795	0.97383	0.94527	0.97583	0.9517	0.948	0.9566	0.9393	0.9498	0.9465	0.95606
chr9	136049862	136049909	5	0.9844	0.9659	0.9508	0.97108	0.9526	0.9618	0.9758	0.9648	0.9726	0.963	0.9584	0.9646
chr9	136049891	136049931	8	0.97737	0.9695	0.94081	0.96865	0.95975	0.9476	0.97562	0.9691	0.9534	0.9717	0.96856	0.96427
chr9	136049908	136049931	5	0.9676	0.9718	0.93805	0.964	0.964	0.9304	0.974	0.9694	0.9414	0.9712	0.9769	0.96343
chr9	136049945	136049981	5	0.9732	0.9772	0.95785	0.9582	0.9712	0.9542	0.9547	0.9818	0.9728	0.9615	0.9627	0.95793
chr9	136050043	136050134	13	NaN	0.9779	0.97779	0.96531	0.97092	0.9672	0.97815	0.9786	0.9674	0.9745	0.96415	0.96336
chr9	136050058	136050103	5	NaN	0.98	0.98545	0.96924	0.9838	0.9544	0.9796	0.9906	0.994	0.9697	0.9802	0.9661
chr9	136050106	136050134	5	0.9668	0.9788	0.9772	0.95968	0.968	0.9714	0.9735	0.9729	0.9472	0.9715	0.9552	0.9591
chr9	136055175	136055236	5	0.9828	0.9825	0.98355	0.9448	0.9876	0.9604	0.9573	0.9705	0.9624	0.9764	0.9646	0.96067
chr9	136101695	136101704	2	1	1	1	1	1	0.5	1	0.9643	1	1	0.97925	0.97917
chr9	136318275	136318320	6	0.97117	0.9598	0.94629	0.94023	0.91833	0.9312	0.89742	0.9601	0.9148	0.9402	0.93767	0.95381
chr9	136318299	136318320	5	0.9796	0.9617	0.96315	0.93768	0.927	0.9374	0.8948	0.9654	0.9248	0.9559	0.9446	0.9617
chr9	136511929	136512005	4	0.0345	0.9678	0.94794	0.91775	0.95575	0.973	0.94925	0.932	0.9365	0.9446	0.51975	0.94504
chr9	136512062	136512134	7	0.04557	0.9714	0.95671	0.94023	0.93743	0.9604	0.953	0.9408	0.97	0.9503	0.87514	0.96126
chr9	136512117	136512134	3	0.03	0.9712	0.94925	0.93393	0.94167	0.9507	0.95633	0.9247	0.981	0.9495	0.90767	0.95583

FIG. 6 **(Continued)**

chr9	130137292	130137335	5	0.93694	0.7982	0.05527	0.9674	0.9316	0.97616	0.9773	0.9868	0.9808	
chr9	130814263	130814282	3	0.96448	0.9257	0.95511	0.303	0.952	0.88673	0.05867	0.94733	0.523	
chr9	131252714	131252750	5	0.00609	0	0.0008	0	0.00257	0.00432	0.0016	0	0	
chr9	131628629	131628635	2	0.98	1	0.98683	0.7555	0.9633	0.9338	0.17275	0.982	0.888	
chr9	131725550	131725607	2	0.90129	0.911	0.96292	NaN	0.93525	0.0053	0.06025	0	0.9795	
chr9	132048691	132048756	5	0.9602	0.8508	0.95043	0.913	0.94903	0.93856	0.9424	0.9214	0.9276	
chr9	132067749	132067766	2	0.95664	0.9275	0.94858	0.7665	0.94392	0.903	0.97525	0.9355	0.8945	
chr9	133441069	133441139	5	0.94594	0.9342	0.94177	NaN	0.9528	0.0106	0.3833	0.0114	0.9024	
chr9	134124028	134124061	2	0.31775	0.931	0.64242	0.8805	0.168	0.9148	0.822	0.893	0.8715	
chr9	134142640	134142721	5	0.87026	0.9516	0.8978	0.969	0.88957	0.97832	0.9558	0.967	0.9742	
chr9	135952120	135952164	3	0.97033	0.9573	0.96817	0.97033	0.96922	0.97987	0.8995	0.97933	0.98967	
chr9	136038768	136038885	5	0.96486	0.9636	0.9588	0.9732	0.95587	0.97548	0.901	0.9718	0.9302	
chr9	136040322	136040835	9	0.97178	0.9758	0.96407	0.93733	0.96096	0.97558	0.83867	0.978	0.93656	
chr9	136040562	136040941	7	0.97076	0.9729	0.96731	0.93286	0.969	0.9702	0.84529	0.98457	0.96514	
chr9	136049573	136049707	9	0.96183	0.9604	0.9558	0.93678	0.95209	0.96813	0.862	0.95844	0.95078	
chr9	136049716	136049787	6	0.95779	0.942	0.94472	0.9505	0.93191	0.969	0.87883	0.9815	0.95583	
chr9	136049862	136049909	5	0.96937	0.9366	0.9707	0.9654	0.97527	0.97096	0.9549	0.963	0.9756	
chr9	136049891	136049931	8	0.96402	0.9579	0.96379	0.97788	0.96034	0.978	0.95344	0.97975	0.97913	
chr9	136049908	136049931	5	0.96094	0.961	0.9574	0.9772	0.95077	0.97928	0.9394	0.9826	0.9818	
chr9	136049945	136049981	5	0.96426	0.9712	0.9661	0.9352	0.9698	0.97744	0.8775	0.971	0.97	
chr9	136050043	136050134	13	0.96812	0.9807	0.96779	0.96023	0.96978	0.9708	0.93192	0.96992	0.97377	
chr9	136050058	136050103	5	0.97551	0.9836	0.97193	0.9704	0.97127	0.97576	0.9397	0.9704	0.9708	
chr9	136050106	136050134	5	0.96177	0.9758	0.9683	0.9474	0.97336	0.96884	0.9127	0.9676	0.9762	
chr9	136055175	136055236	5	0.95897	0.9758	0.97017	0.9594	0.96327	0.96204	0.9364	0.9796	0.9808	
chr9	136101695	136101704	2	0.97536	1	0.9465	0.969	0.98808	0.9833	0.9165	1	1	
chr9	136318275	136318320	6	0.96402	0.9663	0.94281	0.03967	0.94064	0.01377	0.16825	0.0265	0.93	
chr9	136318299	136318320	5	0.969	0.9706	0.94993	0.0476	0.94507	0.01492	0.1834	0.0298	0.9396	
chr9	136511929	136512005	4	0.93239	0.644	0.9025	0.92975	0.94121	0.97125	0.92937	0.956	0.96175	
chr9	136512062	136512134	7	0.95539	0.9173	0.94024	0.958	0.95464	0.97657	0.953	0.98314	0.96186	
chr9	136512117	136512134	3	0.96238	0.922	0.93861	0.949	0.96628	0.97593	0.94267	0.98867	0.956	

FIG. 6 **(Continued)**

chr9	136522255	136522278	5	0.916	0.9773	0.9572	0.01536	0.9186	0.9742	0.1249	0.9165	0.948	0.956	0.8912	0.01533
chr9	136734937	136734983	4	0.94925	0.8893	0.86556	0.92595	0.36725	0.3848	0.91475	0.8695	0.2503	0.3824	0.92688	0.95321
chr9	137123841	137123961	5	0.9356	0.9706	0.96325	0.91876	0.925	0.9352	0.9632	0.9385	0.891	0.8848	0.9448	0.9568
chr9	137398241	137398266	3	0.944	0.7557	0.85783	0.9398	0.0093	0.0713	0.9595	0.9303	0.1023	0.3807	0.951	0.97328
chr9	137521736	137521776	5	0.9498	0.9671	0.9256	0.96872	0.959	0.9454	0.8278	0.0604	0.9374	0.8229	0.9403	0.96303
chr9	137608222	137608262	4	0.9505	0.9653	0.90075	0.02979	0.924	0.9428	0.16	0.9233	0.9425	0.976	0.901	0.04429
chr10	936489	936597	5	0.9536	0.9706	0.9619	0.96224	0.9582	0.9264	0.9632	0.9408	0.903	0.9081	0.9056	0.9502
chr10	936516	936597	4	0.952	0.9705	0.9575	0.9597	0.94775	0.923	0.96813	0.9295	0.8863	0.9009	0.89613	0.95592
chr10	943830	943936	4	0.992	0.9808	0.95131	0.92485	0.98	0.9413	0.953	0.9353	0.924	0.9223	0.89737	0.95854
chr10	3102057	3102121	6	0.97633	0.9851	0.97946	0.95587	NaN	0.9862	0.972	0.978	1	0.9769	0.96767	0.96602
chr10	3331969	3331981	2	0.8935	0.9685	0.961	0.5246	0.9775	0.9205	0.496	0.9375	0.95	0.944	0.90325	0.93167
chr10	3526014	3526060	2	0.8885	0.9665	0.94225	0.061	0.8265	0.854	0.21275	0.9348	0.764	0.8595	0.89	0.03687
chr10	3526057	3526081	2	0.9015	0.97	0.94388	0.15725	0.8475	0.823	0.22775	0.9445	0.766	0.8465	0.8545	0.07892
chr10	3773057	3773137	4	0.95475	0.9717	0.94569	0.87995	0.96575	0.9745	0.89912	0.9533	0.9713	0.9766	0.93	0.90587
chr10	5749880	5749993	4	1	0.9944	0.97606	0.91065	0.986	0.9638	0.90312	0.9571	0.9848	0.9831	0.958	0.9445
chr10	6068549	6068558	2	0	0.0147	0.09963	0	0.0915	0.173	0.05075	0.7095	0.505	0.9063	0.1295	0.0375
chr10	7190055	7190072	4	0.976	0.9674	0.94206	0.93465	0.9815	0.9638	0.85825	0.098	0.993	0.9041	0.94712	0.97562
chr10	8330943	8330980	3	1	0.9814	0.97831	0.94613	0.845	0.305	0.97683	0.9662	0.8627	0.8247	0.971	0.97084
chr10	9002646	9002651	2	1	0.941	0.98162	0.93793	NaN	0.187	0.9445	0.9555	0.9635	0.9688	0.9675	0.96375
chr10	9004879	9004892	3	0.90867	0.972	0.97183	0.96253	0.63033	0.0407	0.98683	0.9658	0.9703	0.886	0.90767	0.98361
chr10	12044358	12044417	5	0.9314	0.9742	0.97415	0.92166	0.9676	0.9818	0.9544	0.964	0.986	0.9698	0.9371	0.89123
chr10	12044369	12044417	4	0.91425	0.9711	0.97319	0.94045	0.9595	0.9773	0.95188	0.9591	0.9825	0.9696	0.94162	0.89967
chr10	12461941	12461953	2	0.944	0.993	0.97925	0.8978	0.938	0.962	0.4175	0.9635	0.909	0.9358	0.907	0.92325
chr10	13288035	13288042	2	1	0.9463	0.88125	0.9475	0.2545	0.079	0.9755	0.8745	0.1925	0.3675	0.94675	0.95142
chr10	14692879	14692972	3	1	0.9276	0.91975	0.9638	0.88233	0.17	0.9835	0.9065	NaN	0.4647	0.951	0.95833
chr10	17650995	17651007	2	0.9225	0.987	0.98513	0.9376	0.8875	0.781	0.938	0.9415	0.9045	0.9473	0.9935	0.9655
chr10	17660476	17660601	4	0.97625	0.9003	0.89375	0.96255	0.945	0.9233	0.985	0.9593	0.9608	0.939	0.95125	0.9845
chr10	17660560	17660601	2	1	0.8222	0.815	0.9472	0.89	0.8715	0.97	0.9318	0.9215	0.886	0.9805	0.98608
chr10	17660664	17660732	2	0.982	0.9283	0.913	0.9487	0.8945	0.931	0.97275	0.9293	0.8995	0.9353	0.95775	0.97933
chr10	17666942	17667191	4	NaN	0.9418	0.95883	0.95529	0.8565	0.9375	0.94987	0.9331	NaN	0.9671	0.95412	0.96239

FIG. 6 (Continued)

chr9	136522255	136522278	5	0.02291	0.1298	0.02997	0.9504	0.0493	0.95668	0.8708	0.9668	0.9734	
chr9	136734937	136734983	4	0.9475	0.9383	0.93108	0.86375	0.93892	0.96345	0.68225	0.96525	0.37575	
chr9	137123841	137123961	5	0.93593	0.9248	0.92143	0.0896	0.94193	0.89072	0.1519	0.9314	0.9418	
chr9	137398241	137398266	3	0.96795	0.936	0.9595	0.28133	0.9625	0.7336	0.143	0.88833	0.15333	
chr9	137521736	137521776	5	0.95646	0.966	0.96647	0.9458	0.94793	0.95392	0.9135	0.9794	0.9554	
chr9	137608222	137608262	4	0.03477	0.0878	0.01546	0.94175	0.03924	0.94035	0.88325	0.89875	0.9765	
chr10	936489	936597	5	0.9508	0.9306	0.96217	0.1414	0.94713	0.88936	0.1028	0.972	0.937	
chr10	936516	936597	4	0.94582	0.9133	0.96046	0.0935	0.94421	0.89025	0.09375	0.969	0.927	
chr10	943830	943936	4	0.97132	0.9908	0.9695	0.0945	0.96467	0.89028	0.1085	0.97525	0.97475	
chr10	3102057	3102121	6	0.97146	0.9885	0.96804	0.97983	0.96264	0.96965	0.94375	0.95633	1	
chr10	3331969	3331981	2	0.91364	0.931	0.94767	0.8915	0.96325	0.9704	0.919	0.9745	0.958	
chr10	3526014	3526060	2	0.056	0.9525	0.92742	0.896	0.81725	0.9529	0.74175	0.958	0.8695	
chr10	3526057	3526081	2	0.083	0.9595	0.94225	0.8915	0.861	0.9653	0.775	0.9465	0.8545	
chr10	3773057	3773137	4	0.92571	0.0708	0.03383	0.95925	0.82117	0.96945	0.97537	0.97375	0.98375	
chr10	5749880	5749993	4	0.91779	0.1673	0.05579	0.98675	0.90408	0.9771	0.93837	0.986	0.9665	
chr10	6068549	6068558	2	0.01143	0	0.0015	0	0.00167	0	0.139	0	0.0395	
chr10	7190055	7190072	4	0.97779	0.992	0.97308	0.9875	0.97308	0.985	0.98225	0.99175	0.99225	
chr10	8330943	8330980	3	0.9519	0.9607	0.96644	0.921	0.96311	0.95033	0.8465	1	0.95367	
chr10	9002646	9002651	2	0.95686	0.973	0.94192	0.972	0.97625	0.99	0.85525	0.9885	1	
chr10	9004879	9004892	3	0.96176	0.9877	0.97211	1	0.96894	0.9786	0.96033	0.992	0.93867	
chr10	12044358	12044417	5	0.86546	0.9528	0.9635	NaN	0.94663	0.87128	0.0802	0.9864	0.964	
chr10	12044369	12044417	4	0.88571	0.941	0.96675	0.05375	0.94521	0.8816	0.07675	0.983	0.955	
chr10	12461941	12461953	2	0.94257	0.9025	0.96108	0.909	0.92325	0.9672	0.96225	0.9925	0.9235	
chr10	13288035	13288042	2	0.97579	0.9735	0.95417	0.2035	0.92458	0.9401	0.13275	0.985	0.675	
chr10	14692879	14692972	3	0.96119	0.956	0.97439	0.90867	0.96489	0.94	0.386	0.97033	NaN	
chr10	17650995	17651007	2	0.97393	0.9785	0.9625	0.955	0.96817	0.9689	0.9915	0.9905	0.2435	
chr10	17660476	17660601	4	0.98146	0.9825	0.9685	0.9095	0.98213	0.9805	0.93675	0.99125	0.43825	
chr10	17660560	17660601	2	0.991	0.9835	0.97958	0.929	0.98067	0.9766	0.919	0.9825	0.285	
chr10	17660664	17660732	2	0.96836	0.956	0.97042	0.9415	0.97408	0.9741	0.91275	0.953	0.3585	
chr10	17666942	17667191	4	0.95702	0.9595	0.94912	0.97025	0.96004	0.95995	0.93863	0.9785	0.38225	

FIG. 6 **(Continued)**

chr10	17667101	17667191	3	NaN	0.9478	0.96219	0.95532	0.94767	0.9773	0.9465	0.9247	NaN	0.9677	0.9695	0.95302
chr10	17667180	17667191	2	1	0.9217	0.97362	0.95008	0.9215	0.966	0.91975	0.9215	0.9585	0.9693	0.95425	0.95783
chr10	17735986	17736707	5	0.984	0.9893	0.983	0.95536	0.9336	0.978	0.971	0.972	0.9396	0.9596	0.9505	0.97603
chr10	17755023	17755271	6	0.9765	0.9829	0.97262	0.96913	0.9725	0.9262	0.97667	0.9661	0.946	0.9303	0.96725	0.96878
chr10	17759795	17759855	5	0.9778	0.9791	0.9633	0.97068	0.9796	0.935	0.9671	0.9442	0.9598	0.9417	0.9523	0.98277
chr10	17768613	17768621	2	1	0.9727	0.94837	0.0145	0.9415	0.9405	NaN	0.9635	0.975	0.9528	0.9035	0.08467
chr10	17855224	17855311	5	0.9666	0.9722	0.97285	0.97048	0.961	0.9624	0.9802	0.964	0.945	0.9793	0.9274	0.96443
chr10	17866684	17866720	5	0.967	0.9823	0.966	0.96536	0.9512	0.99	0.9656	0.9453	0.9162	0.9515	0.9058	0.95337
chr10	18356974	18357039	7	0.99429	0.9796	0.93937	0.9149	0.94486	0.9691	0.95371	0.9867	0.9826	0.9849	0.93329	0.97295
chr10	26801470	26801505	4	0.9495	0.9842	0.97681	0.94895	0.99275	0.9915	0.93463	0.9645	0.9918	0.9645	0.95725	0.97983
chr10	28614205	28614264	5	0.9406	0.9315	0.97145	0.97988	0.9652	0.975	0.9857	0.9282	0.9692	0.9631	0.9608	0.9637
chr10	28614249	28614297	5	0.9692	0.9455	0.97555	0.97552	0.9552	0.975	0.9857	0.9134	0.9392	0.9467	0.9729	0.9546
chr10	31964617	31964692	5	0.9724	0.9853	0.9392	0.10056	0.909	0.9502	0.1864	0.9329	0.9514	0.9179	0.9352	0.14953
chr10	33153689	33153751	3	0.911	0.954	0.97458	0.90947	NaN	0.2337	0.97	0.9127	0.6683	0.8228	0.84467	0.94661
chr10	33180347	33180402	4	0.9845	0.8692	0.94081	0.9414	0.43225	NaN	0.96088	0.9771	0.1948	0.7206	0.89075	0.97142
chr10	35011869	35011929	4	0.96175	0.4448	0.881	0.9505	0.52175	0.9945	0.95488	0.9508	0.7055	0.9629	0.96863	0.97558
chr10	45700066	45700129	5	0.9504	0.9711	0.96725	0.94788	0.975	1	0.98	0.9781	0.9578	0.9592	0.9535	0.96657
chr10	45808329	45808853	6	0.94383	0.9828	0.97038	0.94613	0.96567	0.9395	0.97392	0.9439	0.944	0.9409	0.95033	0.97058
chr10	45871746	45871900	6	0.95233	0.9687	0.98158	0.9577	0.987	0.9768	0.96308	0.9668	0.9043	0.9735	0.95442	0.97919
chr10	45924645	45924736	6	0.96683	0.9764	0.9795	0.9692	0.96467	0.9495	0.98808	0.9632	0.9567	0.9702	0.982	0.96431
chr10	45924647	45924736	5	0.9686	0.978	0.97685	0.9726	0.9644	0.9528	0.9891	0.9579	0.9598	0.9742	0.9784	0.9634
chr10	45957953	45958007	5	0.9866	0.9709	0.9633	0.96424	0.941	0.9916	0.937	0.9689	0.9712	0.971	0.961	0.96397
chr10	45967904	45968090	10	0.9345	0.9766	0.95592	0.92018	0.9261	0.9785	0.966	0.9642	0.9441	0.9421	0.9488	0.94103
chr10	45999112	45999390	7	0.99143	0.9843	0.97036	0.96546	0.98414	0.9747	0.97179	0.9671	0.9833	0.9657	0.95743	0.9674
chr10	45999202	45999454	7	0.99014	0.9883	0.97093	0.95831	0.99271	0.9661	0.97836	0.9724	0.9743	0.9674	0.95571	0.96517
chr10	45999337	45999500	8	0.97762	0.9865	0.96766	0.95337	0.97713	0.9639	0.97756	0.9637	0.9659	0.9496	0.96725	0.96575
chr10	45999358	45999500	6	0.97017	0.9848	0.96375	0.9485	0.9725	0.9617	0.97358	0.9589	0.959	0.9344	0.97583	0.96253
chr10	46837823	46837910	8	0.96075	0.9678	0.97459	0.9426	0.96112	0.9644	0.972	0.9534	0.9503	0.9408	0.925	0.95802
chr10	46994575	46994625	5	0.9556	0.9762	0.9658	0.97316	0.9876	0.914	0.9638	0.9262	0.9396	0.9841	0.9432	0.9661
chr10	47046701	47046797	5	0.8996	0.9577	0.95755	0.92884	0.9542	0.92	0.9628	0.937	0.9168	0.9071	0.8968	0.96333

***FIG. 6* (Continued)**

SUBSTITUTE SHEET (RULE 26)

chr10	17667101	17667191	3	0.95074	0.9637	0.94917	0.984	0.96106	0.96193	0.95867	0.977	0.41633
chr10	17667180	17667191	2	0.94636	0.984	0.95258	0.976	0.96217	0.9512	0.947	0.9825	0.3745
chr10	17735986	17736707	5	0.96712	0.9642	0.9693	0.9554	0.9675	0.9778	0.9248	0.9536	0.9668
chr10	17755023	17755271	6	0.96948	0.9615	0.96197	0.95867	0.96769	0.97473	0.86925	0.97583	0.95417
chr10	17759795	17759855	5	0.96883	0.9626	0.96753	0.9556	0.96513	0.9782	0.8555	0.9748	0.9458
chr10	17768613	17768621	2	0.01033	0.8045	0.82833	0.9775	0.525	0.966	0.88975	0.9615	0.95
chr10	17855224	17855311	5	0.96906	0.9636	0.96563	0.9402	0.96323	0.97712	0.9182	0.9746	0.9736
chr10	17866684	17866720	5	0.97274	0.969	0.96327	0.9514	0.96123	0.9778	0.8887	1	0.969
chr10	18356974	18357039	7	0.93616	0.9156	0.94696	0.96757	0.95393	0.9796	0.95243	0.98271	0.97229
chr10	26801470	26801505	4	0.96764	0.9673	0.96833	0.403	0.96408	0.1181	0.78375	0.952	0.98725
chr10	28614205	28614264	5	0.9692	0.9528	0.9757	0.979	0.97585	0.9886	0.9359	0.9876	0.9224
chr10	28614249	28614297	5	0.9766	0.9306	0.9643	0.9748	0.98381	0.97576	0.9761	0.9644	0.9244
chr10	31964617	31964692	5	0.16848	0.7486	0.0108	0.9628	0.10803	0.96784	0.9081	0.9624	0.9684
chr10	33153689	33153751	3	0.9411	0.848	0.92083	0.63833	0.9225	0.88107	0.28617	0.89167	0.47367
chr10	33180347	33180402	4	0.97364	0.9608	0.95377	0.93475	0.941	0.98615	0.88237	0.988	0.752
chr10	35011869	35011929	4	0.97986	0.9515	0.97446	0.96675	0.95517	0.97025	0.96813	0.982	0.23025
chr10	45700066	45700129	5	0.96489	0.9532	0.96107	0.961	0.97397	0.97909	0.9287	0.957	0.977
chr10	45808329	45808853	6	0.96631	0.9595	0.96469	0.95167	0.96178	0.96877	0.89108	0.973	0.962
chr10	45871746	45871900	6	0.97279	0.9657	0.95612	0.98567	0.97457	0.95887	0.98483	1	0.95683
chr10	45924645	45924736	6	0.96593	0.9892	0.94978	0.9895	0.97406	0.96947	0.98908	0.989	0.96917
chr10	45924647	45924736	5	0.96549	0.987	0.94733	0.9874	0.97323	0.97172	0.9975	0.9868	0.968
chr10	45957953	45958007	5	0.96429	0.9626	0.9812	0.9776	0.97053	0.9792	0.9638	0.9834	0.9406
chr10	45967904	45968090	10	0.94794	0.9411	0.91848	0.9722	0.95065	0.97106	0.9271	0.9835	0.9525
chr10	45999112	45999390	7	0.97506	0.9884	0.97269	0.96386	0.9739	0.97209	0.96564	0.96929	0.96543
chr10	45999202	45999454	7	0.9752	1	0.97202	0.95957	0.97369	0.97397	0.96757	0.96971	0.97271
chr10	45999337	45999500	8	0.96863	0.9896	0.97242	0.965	0.9684	0.9752	0.97062	0.9735	0.97575
chr10	45999358	45999500	6	0.96326	0.9862	0.96994	0.95617	0.96803	0.9744	0.96683	0.96683	0.971
chr10	46837823	46837910	8	0.96711	0.9615	0.96404	0.955	0.96508	0.96162	0.91387	0.98887	0.966
chr10	46994575	46994625	5	0.95586	0.9576	0.9642	0.955	0.9806	0.9672	0.9446	0.9626	0.9572
chr10	47046701	47046797	5	0.96034	0.9476	0.9483	0.9468	0.9555	0.96984	0.8448	0.938	0.9662

***FIG. 6* (Continued)**

SUBSTITUTE SHEET (RULE 26)

chr10	47502141	47502180	5	0.97	0.9711	0.97205	0.95544	0.928	0.9702	0.9435	0.972	0.974	0.9861	0.913	0.94777				
chr10	48466654	48466697	9	0.97256	0.975	0.97669	0.9552	0.971	0.9624	0.98322	0.9821	0.9769	0.9615	0.95433	0.96291				
chr10	48466675	48466695	6	0.9755	0.9756	0.98021	0.9533	0.96383	0.9535	0.979	0.9847	0.9737	0.958	0.96092	0.96078				
chr10	49964296	49964545	6	0.96033	0.9691	0.96288	0.96097	NaN	0.9548	0.97733	0.9746	0.9825	0.9435	0.97608	0.95326				
chr10	50008850	50008961	6	0.98133	0.9791	0.96413	0.94907	0.97617	0.9773	0.95875	0.9664	0.9703	0.9715	0.9745	0.96311				
chr10	50101410	50101459	2	1	0.9583	0.9405	0.575	0.9285	1	0.4165	1	0.923	1	0.909	0.31538				
chr10	50458593	50458660	5	0.8998	0.9731	0.9261	0.09568	0.9236	0.931	0.1839	0.9566	0.9822	0.9656	0.9373	0.12213				
chr10	62000263	62000313	4	0.95425	0.9865	0.98181	0.94335	0.95775	0.9125	0.99225	0.9739	0.8868	0.9516	0.93225	0.98375				
chr10	62373373	62373390	2	1	1	0.944	0.9466	0.7265	0.136	0.957	0.919	0.844	0.7545	0.96175	0.97583				
chr10	68521615	68521696	8	0.97913	0.9633	0.98423	0.9584	0.96963	0.9563	0.972	0.9713	0.9539	0.9645	0.96463	0.97552				
chr10	69455030	69455088	4	0.2755	0.9527	0.94025	0.8945	0.93525	0.9905	0.913	0.911	0.9408	0.9188	0.83888	0.93471				
chr10	70603767	70603829	3	0.944	0.9806	0.85142	0.93327	0.92533	0.8683	0.82767	0.0443	0.8287	0.1213	0.823	0.91283				
chr10	70610539	70610550	2	1	0.9223	0.2315	0.9036	0.8655	0.7845	0.93725	0	0.7785	0.05	0.958	0.97125				
chr10	71940174	71940224	3	0.97167	0.9181	0.91458	0.96007	NaN	0.0637	0.93883	0.8855	0.0617	0.2333	0.925	0.95661				
chr10	73418079	73418128	5	0.9334	0.9521	0.9701	0.94324	1	0.9388	0.9877	0.9801	0.9742	0.9737	0.9901	0.972				
chr10	73759053	73759077	3	0.945	0.8912	0.73408	0.93673	0.513	0.698	0.82467	0.0083	0.282	0.0305	0.957	0.93822				
chr10	74750824	74750840	3	0.92933	0.9573	0.62758	0.9478	0.785	0.321	0.963	0.8768	0.9313	0.6097	0.9445	0.96778				
chr10	76251337	76251409	7	NaN	0.9789	0.97004	0.96889	0.94814	0.9739	0.98414	0.9686	0.92	0.9048	0.87521	0.98152				
chr10	76383445	76383533	10	0.9552	0.9796	0.97032	0.9692	0.9303	0.9387	0.96925	0.9232	0.9245	0.9386	0.9576	0.9761				
chr10	78049649	78049825	2	0.95	0.9583	0.92625	0.33625	1	0.9735	0.63	0.942	0.771	0.8595	0.8875	0.89425				
chr10	86925787	86925830	5	0.95	0.9858	0.96065	0.96176	0.9926	NaN	0.9749	0.9554	0.9722	0.9472	0.9566	0.97197				
chr10	88998872	88998939	6	0.98767	0.9592	0.96313	0.93247	0.96833	0.9438	0.96717	0.9728	0.921	0.8854	0.94467	0.97271				
chr10	88999076	88999111	5	0.9742	0.9543	0.94147	0.94308	0.9292	NaN	0.9296	0.9537	0.8952	0.7308	0.9729	0.94628				
chr10	90331597	90331616	5	0.96	0.9889	0.99445	0.93405	1	1	0.9875	0.99	0.9778	0.94	0.95	0.96967				
chr10	91503400	91503432	5	1	1	0.98375	0.96144	0.96	0.974	1	0.9506	0.98	0.9639	0.9625	0.96937				
chr10	92974736	92974812	7	0.97557	0.9815	0.93985	0.97239	0.94329	0.967	0.96364	0.9722	0.9606	0.9699	0.9895	0.97024				
chr10	96700234	96700272	4	0.9785	0.9779	0.973	0.9614	0.9595	0.9635	0.9355	0.9648	0.964	0.9765	0.98237	0.96579				
chr10	102002632	102002728	4	0.955	0.9609	0.9705	0.02808	0.8985	0.9643	NaN	0.9531	0.9515	0.9546	0.861	0.04921				
chr10	103470441	103470481	3	0.95367	0.9848	0.95117	0.32315	0.96667	0.957	0.90917	0.9513	0.9803	0.9527	0.90267	0.74722				
chr10	103470445	103470481	2	0.9545	0.9832	0.94012	0.25732	0.9715	0.9355	0.90675	0.9633	0.9775	0.9655	0.9015	0.71808				

FIG. 6 **(Continued)**

chr10	47502141	47502180	5	0.96054	0.9932	0.9633	0.9652	0.97057	0.9746	0.989	0.9836	0.9658	
chr10	48466654	48466697	9	0.96614	0.9628	0.96206	0.97811	0.97798	0.978	0.97272	0.95122	0.97578	
chr10	48466675	48466695	6	0.96202	0.9557	0.97186	0.98383	0.97772	0.977	0.97733	0.95667	0.96967	
chr10	49964296	49964545	6	0.97312	0.9378	0.96646	0.9515	0.96741	0.9675	0.97292	0.968	0.9655	
chr10	50008850	50008961	6	0.96256	0.9885	0.96419	0.97433	0.97161	0.9706	0.9495	0.95833	0.96383	
chr10	50101410	50101459	2	0	0.875	0.19329	0.9335	0.32503	0.9048	0.873	0.7595	1	
chr10	50458593	50458660	5	0.13793	0.0868	0.04747	0.9578	0.11747	0.9644	0.9375	0.9904	0.9808	
chr10	62000263	62000313	4	0.96839	0.985	0.97488	0.077	0.97929	0.14744	0.02363	0.89125	0.94775	
chr10	62373373	62373390	2	0.98064	0.9455	0.95325	0.972	0.9485	0.9627	0.80525	0.946	0.896	
chr10	68521615	68521696	8	0.96432	0.9723	0.98039	0.9685	0.97827	0.96698	0.96994	0.994	0.93488	
chr10	69455030	69455088	4	0.93779	0.9053	0.93342	0.8895	0.95204	0.95105	0.89062	0.9655	0.91025	
chr10	70603767	70603829	3	0.92543	0.9363	0.92922	0.812	0.93261	0.962	0.60767	0.98733	0.93833	
chr10	70610539	70610550	2	0.98	0.938	0.97275	0.906	0.96883	0.9852	0.91025	0.9805	0.873	
chr10	71940174	71940224	3	0.94719	0.9533	0.95483	0.44367	0.96139	0.93373	0.12683	0.98033	0.68833	
chr10	73418079	73418128	5	0.94426	0.9866	0.96947	0.9618	0.94503	0.98036	0.9114	0.9526	0.9676	
chr10	73759053	73759077	3	0.94143	0.938	0.95633	0.512	0.94667	0.94727	0.27467	0.97667	0.79333	
chr10	74750824	74750840	3	0.96033	0.9613	0.97139	0.08767	0.96767	0.92647	0.2565	0.97667	0.43267	
chr10	76251337	76251409	7	0.96035	0.9881	0.94221	0.94757	0.97043	0.97526	0.92257	NaN	0.95414	
chr10	76383445	76383533	10	0.96804	0.9778	0.97077	0.9215	0.96985	0.97134	0.9003	0.9662	0.9694	
chr10	78049649	78049825	2	0.91343	0.931	0.92392	0.969	0.94758	0.985	0.87825	0.9665	0.9165	
chr10	86925787	86925830	5	0.98323	1	0.95459	0.9526	0.9564	0.9874	0.9637	0.9766	1	
chr10	88998872	88998939	6	0.94618	0.946	0.96675	0.91833	0.95461	0.93792	0.31067	0.95483	0.95633	
chr10	88999076	88999111	5	0.94386	0.84	0.9285	0.897	0.95853	0.94138	0.2117	0.9412	0.9364	
chr10	90331597	90331616	5	0.98332	0.9214	0.94222	1	0.97397	0.98072	0.9147	0.9858	0.9714	
chr10	91503400	91503432	5	0.97787	0.9818	0.98337	0.96	0.95576	0.98336	0.9895	0.9866	1	
chr10	92974736	92974812	7	0.98396	0.9611	0.96027	0.98157	0.95091	0.97549	0.95907	0.95586	0.96429	
chr10	96700234	96700272	4	0.96164	0.9483	0.96521	0.00625	0.9575	0.15256	0.03913	0.95375	0.98575	
chr10	102002632	102002728	4	0.04336	0.9503	0.95279	NaN	0.061	0.02348	0.03925	0.9415	0.9085	
chr10	103470441	103470481	3	0.69143	0.9567	0.95972	0.981	0.92394	0.96033	0.9325	0.97233	0.96033	
chr10	103470445	103470481	2	0.6645	0.963	0.95642	0.987	0.91525	0.9595	0.92675	0.9725	0.9585	

FIG. 6 **(Continued)**

chr10	104033300	104033492	4	0.93675	0.9633	0.942	0.9063	0.944	0.9635	0.92588	0.9559	0.9143	0.9409	0.90538	0.91058	
chr10	104324478	104324537	5	0.0678	0.0085	0.0399	0.0016	0.1466	0.5838	0.0092	0.0645	0.0826	0.5573	0.1601	0.01609	
chr10	110086092	110086139	3	0.973	0.9213	0.87017	0.9276	0.413	0.659	0.89683	0.2152	0.146	0.0993	0.98167	0.96767	
chr10	110768089	110768114	6	0.961	0.9798	0.96254	0.95133	0.97817	0.971	0.96633	0.9772	0.933	0.9783	0.96367	0.9735	
chr10	112372648	112372659	2	0.898	0.9045	0.15563	0.9505	0.934	0.796	0.92075	0.5555	0.975	0.7955	0.94575	0.95033	
chr10	114497400	114497452	5	0.9718	0.957	0.92875	0.95496	0.9778	0.9508	0.9698	0.9499	0.976	0.9475	0.9159	0.9615	
chr10	114497404	114497477	6	0.96067	0.9628	0.94525	0.94967	0.98233	0.9507	0.971	0.9563	0.9703	0.9478	0.90808	0.96219	
chr10	114497406	114497477	5	0.961	0.9651	0.94085	0.94728	0.9788	0.9598	0.9689	0.9558	0.972	0.9466	0.8975	0.96413	
chr10	118701219	118701307	3	0.986	0.935	0.34083	0.95167	0.95767	0.952	0.94483	0.6562	0.9623	0.9353	0.95983	0.98178	
chr10	119369683	119369838	7	0.96286	0.9731	0.94564	0.93266	0.96957	0.9481	0.93414	0.9561	0.9421	0.9483	0.90486	0.94781	
chr10	119369701	119369838	6	0.95667	0.9687	0.94488	0.9277	0.9645	0.9395	0.93367	0.9583	0.9355	0.943	0.89308	0.94311	
chr10	119506325	119506383	5	0.9682	0.6047	0.2944	0.96396	0.9146	0.95	0.9517	0.9469	0.9206	0.9032	0.9432	0.9765	
chr10	119869290	119869298	2	0.987	0.9583	0.967	0.3291	0.7555	0.795	0.4925	0.9818	0.914	0.8878	0.98175	0.83267	
chr10	124650589	124650667	4	0.98275	0.9513	0.89031	0.96265	0.901	0.905	0.92138	0.3515	0.7548	0.2993	0.96337	0.97167	
chr10	124693145	124693211	6	NaN	0.937	0.97737	0.95747	0.9805	0.9712	0.94058	0.9702	0.942	0.9513	0.02363	0.9645	
chr10	124693189	124693211	5	NaN	0.9413	0.97485	0.95772	0.9818	0.976	0.942	0.9778	0.9446	0.9551	0.0174	0.96917	
chr10	124693192	124693211	4	NaN	0.9398	0.98125	0.9615	0.97725	0.97	0.93688	0.9826	0.9385	0.9705	0	0.96958	
chr10	125996087	125996116	3	0.95567	0.8671	0.91408	0.92993	0.30633	0.207	0.94333	0.9368	0.9113	0.8505	0.867	0.96433	
chr10	126166591	126166745	5	0.9728	0.9373	0.95335	0.93696	0.2212	0.7964	0.9095	0.9659	0.9454	0.932	0.9026	0.96297	
chr10	126166738	126166745	2	1	0.9	0.92488	0.9124	0.2085	0.6535	0.925	0.9583	0.946	0.893	0.94075	0.95708	
chr10	127346672	127346736	4	0.951	0.8765	0.82262	0.9398	0.11575	0.174	0.94	0.6859	0.215	0.323	0.89087	0.95475	
chr10	127918737	127918802	4	0.97375	0.9758	0.94969	0.00438	0.92625	0.9583	0.13412	0.9565	0.892	0.912	0.885	0.00516	
chr10	131907698	131907802	3	0.97267	0.0439	0.26908	0.96073	0.25367	0.2393	0.944	0.7607	0.7207	0.8675	0.86567	0.96081	
chr10	132325910	132326116	9	0.91922	0.971	0.96967	0.94513	0.95633	0.9498	0.96861	0.9661	0.9618	0.9521	0.91167	0.94219	
chr10	132325955	132326116	6	0.911	0.9657	0.97088	0.94433	0.96367	0.9467	0.96792	0.9693	0.9665	0.9689	0.90117	0.96614	
chr10	132622486	132622575	9	0.95578	0.976	0.97753	0.95371	0.97978	0.9837	0.97311	0.9669	0.9768	0.9707	0.95011	0.97544	
chr10	132622608	132622721	9	NaN	0.9699	0.97603	0.93338	0.98033	0.9728	0.97483	0.9682	0.9759	0.9721	0.96644	0.97349	
chr10	132622660	132622721	6	0.996	0.9779	0.97804	0.9192	0.97933	0.978	0.96733	0.9774	0.9777	0.9675	0.95558	0.97406	
chr11	127812	127938	5	0.947	0.984	0.96335	0.957	0.9544	0.9834	0.965	0.9639	0.9678	0.9623	0.9733	0.961	
chr11	290446	290458	3	0.985	0.8779	0.29908	0.9404	0.87767	0.827	0.85467	0.5108	0.9283	0.4008	0.95233	0.96556	

FIG. 6 **(Continued)**

chr10	104033300	104033492	4	0.90475	0.3558	0.04575	0.94725	0.85642	0.9658	0.92125	0.973	0.94925
chr10	104324478	104324537	5	0.0078	0	0	0	0.00223	0.00953	0.0321	0	0.0982
chr10	110086092	110086139	3	0.95867	0.9623	0.962	0.83633	0.95506	0.91953	0.55233	0.969	0.711
chr10	110768089	110768114	6	0.97943	0.8808	0.95867	0.94333	0.96492	0.95293	0.93925	0.95717	0.9765
chr10	112372648	112372659	2	0.96114	0.974	0.95717	0.955	0.95633	0.948	0.933	0.9455	0.957
chr10	114497400	114497452	5	0.95554	0.9554	0.96153	NaN	0.94755	0.9073	0.0696	0.9578	0.968
chr10	114497404	114497477	6	0.95343	0.9737	0.96144	NaN	0.95239	0.91708	0.06092	0.95633	0.96783
chr10	114497406	114497477	5	0.95294	0.9752	0.95873	NaN	0.95127	0.91575	0.0584	0.9592	0.9652
chr10	118701219	118701307	3	0.97848	0.905	0.97067	0.951	0.976	0.979	0.95817	0.97033	0.95767
chr10	119369683	119369838	7	0.9568	0.9197	0.95402	0.00314	0.95336	0.05106	0.07286	0.028571	0.97357
chr10	119369701	119369838	6	0.95367	0.9195	0.94983	0.00367	0.9505	0.05597	0.06367	0.033333	0.97333
chr10	119506325	119506383	5	0.97034	0.9396	0.96783	0.9652	0.96643	0.98216	0.977	0.9748	0.912
chr10	119869290	119869298	2	0.84307	1	0.97067	0.957	0.95608	0.9644	0.89825	0.941	0.9165
chr10	124650589	124650667	4	0.97186	0.955	0.95346	NaN	0.94463	0.97135	0.93762	0.96625	0.9455
chr10	124693145	124693211	6	0.93605	0.9332	0.94803	0.985	0.95331	0.95733	0.98	0.97133	0.96817
chr10	124693189	124693211	5	0.93431	0.9518	0.95943	0.9954	0.9607	0.96	0.9819	0.9708	0.9724
chr10	124693192	124693211	4	0.92836	0.9488	0.96192	0.99425	0.95912	0.96345	0.98887	0.9775	0.9655
chr10	125996087	125996116	3	0.98224	0.9383	0.95194	0.943	0.95422	0.96807	0.4975	0.97567	0.30367
chr10	126166591	126166745	5	0.94577	0.9334	0.96353	0.9528	0.95537	0.9704	0.8728	0.9488	0.8356
chr10	126166738	126166745	2	0.95357	0.9845	0.96942	1	0.96867	0.9626	0.8385	0.9425	0.9
chr10	127346672	127346736	4	0.94643	0.9243	0.95225	0.603	0.93521	0.90905	0.29925	0.9475	0.1425
chr10	127918737	127918802	4	0.01377	0.0425	0.00288	0.9525	0.02345	0.96465	0.84838	0.9805	0.973
chr10	131907698	131907802	3	0.96244	0.3667	0.94011	0.963	0.91822	0.94367	0.92017	0.95933	0.31667
chr10	132325910	132326116	9	0.94181	0.1118	0.96544	0.94911	0.96659	0.96973	0.91883	0.97978	0.918
chr10	132325955	132326116	6	0.96081	0.1087	0.9665	0.953	0.97122	0.9689	0.93108	0.98367	0.90333
chr10	132622486	132622575	9	0.96847	0.9678	0.96393	0.97056	0.97407	0.976	0.94911	0.97622	0.97556
chr10	132622608	132622721	9	0.9725	0.9687	0.95643	0.98856	0.96931	0.97358	0.93922	0.96411	0.97789
chr10	132622660	132622721	6	0.97079	0.9655	0.96106	0.98283	0.97281	0.97843	0.95658	0.97817	0.972
chr11	127812	127938	5	0.95823	0.979	0.9304	0.9308	0.96223	0.96128	0.9265	0.9562	0.9528
chr11	290446	290458	3	0.97019	1	0.97161	0.97967	0.95667	0.88747	0.95617	0.88167	0.964

***FIG. 6* (Continued)**

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chr11	664629	664756	7	NaN	0.9698	0.97756	0.9573	0.97271	0.9517	0.9675	0.9696	0.9527	0.9588	0.96486	0.96702
chr11	664815	664889	5	0.9842	0.9741	0.9812	0.96059	0.9658	0.9636	0.9599	0.9553	0.968	0.9551	0.9642	0.963
chr11	745022	745127	5	0.9444	0.9707	0.97335	0.90684	0.9714	0.9562	0.9255	0.952	0.9512	0.9561	0.9474	0.91683
chr11	980170	980224	6	1	0.9911	0.98563	0.96849	0.97917	0.9792	0.9675	0.9901	0.9778	0.9773	0.9805	0.95177
chr11	7672442	7672506	5	0.9286	0.9695	0.96035	0.94344	0.9868	0.8814	0.9635	0.9549	0.9578	0.9727	0.8847	0.95387
chr11	8984322	8984333	2	1	0.8967	0.97037	0.9332	0.5	0.9785	1	0.906	0.9615	0.9205	0.9615	0.95717
chr11	9666139	9666197	4	1	0.9836	0.97444	0.973	0.93	0.951	0.95737	0.9694	0.9135	0.9364	0.95762	0.96617
chr11	11318581	11318617	3	0.913	0.9716	0.96925	0.0279	0.972	0.9143	0.15383	0.9518	0.9247	0.9425	0.90483	0.71728
chr11	11318592	11318617	2	0.907	0.9757	0.97087	0.0306	0.975	0.925	0.14325	0.954	0.9245	0.941	0.89925	0.7255
chr11	12150928	12150951	3	0.985	0.6904	0.81458	0.9568	0.55033	0.2937	0.404	0.9395	0.461	0.6848	0.96517	0.96594
chr11	13325925	13325934	2	0.931	0.9862	0.97337	0.40075	0.941	0.89	0.87625	0.9365	1	0.9348	0.9325	0.8326
chr11	17132473	17132521	6	0.96667	0.9714	0.98767	0.96827	1	0.9777	0.97458	0.9799	1	0.9786	0.94542	0.98419
chr11	28353792	28353858	5	1	0.9794	0.99285	0.97592	0.9692	0.9474	0.9746	0.9599	0.991	0.9786	0.9398	0.97973
chr11	32596365	32596453	4	0.964	0.9163	0.92375	0.90814	0.44175	0.2298	0.97012	0.9239	0.3363	0.5735	0.9305	0.94471
chr11	33048835	33048981	5	0.9076	0.9684	0.93805	0.02544	0.9362	0.9876	0.1462	0.9674	0.9578	0.9718	0.8617	0.01647
chr11	33048918	33048981	4	0.9285	0.9718	0.94112	0.0269	0.9325	0.9893	0.14975	0.9646	0.964	0.9754	0.857	0.01267
chr11	33234175	33234223	5	NaN	0.9838	0.9875	0.97176	1	0.9082	0.9733	0.9857	1	0.9436	1	0.9647
chr11	43393105	43393129	3	0.94133	0.7121	0.67558	0.96913	NaN	0.1203	0.95333	0.8353	NaN	0.3097	0.94583	0.97311
chr11	45938933	45939055	5	NaN	0.9632	0.96615	0.89988	0.9704	0.9648	0.9261	0.9206	0.9244	0.9516	0.9121	0.92669
chr11	47355212	47355248	5	0.9258	0.9703	0.9503	0.92576	0.9664	0.9372	0.9585	0.968	0.9614	0.9634	0.9691	0.9578
chr11	47355242	47355282	7	0.95629	0.9721	0.95446	0.90306	0.96686	0.9586	0.93507	0.9504	0.9641	0.9643	0.96714	0.94764
chr11	47522421	47522446	2	0.916	0.9368	0.94687	0.0668	0.8945	0.897	0.47675	0.9388	0.863	0.923	0.96675	0.101
chr11	48002191	48002264	4	0.9345	0.0659	0.08069	0.94065	0.00725	0.014	0.84062	0.0144	0.0143	0	0.98025	0.96725
chr11	60983328	60983375	3	0.94933	0.5999	0.85692	0.922	0.23933	0.843	0.94133	0.9288	0.286	0.8263	0.86	0.94344
chr11	60985155	60985224	3	0.876	0.1286	0.4405	0.9672	0.17733	0.649	0.962	0.9202	0.1273	0.8182	0.908	0.95394
chr11	61102971	61103079	6	0.97683	0.0171	0.06683	0.94653	0.01567	0.0028	0.94333	0.899	0	0.0863	0.90642	0.96586
chr11	61103007	61103079	5	0.9722	0.0125	0.0681	0.9468	0.0152	0.0034	0.9389	0.9023	0	0.088	0.9253	0.966
chr11	61287499	61287692	5	0.7946	0.9665	0.94735	0.92428	0.9542	0.9276	0.9279	0.9559	0.9518	0.9514	0.1278	0.9463
chr11	61309799	61309824	2	0.948	0.9683	0.9285	0.9468	0.9355	0.386	0.959	0.9393	0.9755	0.535	0.93625	0.97867
chr11	63536451	63536484	3	0.93233	0.9469	0.92128	0.91833	0.817	0.8083	0.94833	0.5647	0.4977	0.251	0.92667	0.95746

***FIG. 6* (Continued)**

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chr11	664629	664756	7	0.96381	0.9583	0.95879	0.97171	0.96304	0.96724	0.9365	0.97643	0.958
chr11	664815	664889	5	0.9674	0.9606	0.96417	0.9644	0.96067	0.96788	0.9381	0.9646	0.9592
chr11	745022	745127	5	0.92506	0.149	0.5136	0.9148	0.91917	0.97396	0.8698	0.957	0.957
chr11	980170	980224	6	0.96419	0.9742	0.97364	NaN	0.95767	0.96517	0.9705	0.98383	0.97117
chr11	7672442	7672506	5	0.95366	0.9176	0.95517	0.0776	0.94873	0.92888	0.3636	0.9296	0.981
chr11	8984322	8984333	2	0.91133	1	0.96717	1	0.94325	0.9342	0.9215	0.9845	1
chr11	9666139	9666197	4	0.97639	0.9488	0.96096	0.07475	0.97363	0.872	0.12487	0.99175	0.93475
chr11	11318581	11318617	3	0.71983	0.9737	0.95428	0.93967	0.87061	0.97557	0.82617	0.97467	0.95867
chr11	11318592	11318617	2	0.71792	0.979	0.95867	0.9315	0.88167	0.9746	0.82975	0.9725	0.95
chr11	12150928	12150951	3	0.96319	0.9537	0.97106	0.90167	0.96878	0.97853	0.756	0.97233	0.675
chr11	13325925	13325934	2	0.87126	0.9645	0.99075	0.9525	0.97208	0.9836	0.95125	1	0.8575
chr11	17132473	17132521	6	0.97371	0.9912	0.96614	0.956	0.96081	0.9874	0.978	0.99483	0.9815
chr11	28353792	28353858	5	0.96	0.9678	0.9551	0.9682	0.9744	0.97929	0.969	0.9234	0.9554
chr11	32596365	32596453	4	0.95507	0.9388	0.95154	0.93	0.95188	0.97415	0.90488	0.97275	0.59875
chr11	33048835	33048981	5	0.01508	0.1046	0.00577	0.966	0.02647	0.94756	0.8858	0.9704	0.9664
chr11	33048918	33048981	4	0.01343	0.1308	0.00721	0.9575	0.02708	0.9596	0.899	0.9655	0.96275
chr11	33234175	33234223	5	0.97847	1	0.94621	1	0.97217	0.97243	0.9205	1	0.9818
chr11	43393105	43393129	3	0.96048	0.909	0.97206	0.917	0.95356	0.96453	0.8685	0.98467	0.74
chr11	45938933	45939055	5	0.91992	0.989	0.95317	NaN	0.91543	0.03691	0.1785	0.7452	0.9614
chr11	47355212	47355248	5	0.95111	0.8606	0.95347	0.979	0.94757	0.97248	0.9394	0.9854	0.967
chr11	47355242	47355282	7	0.94029	0.9384	0.95169	0.96343	0.94721	0.96474	0.95143	0.96157	0.98486
chr11	47522421	47522446	2	0.139	0.8455	0.95867	0.9705	0.95633	0.9584	0.94	0.981	0.8575
chr11	48002191	48002264	4	0.95429	0.9388	0.92425	0.0315	0.94825	0.8435	0.6075	0.9685	0
chr11	60983328	60983375	3	0.94574	0.939	0.94311	0.93733	0.95189	0.96647	0.82767	0.97967	0.498
chr11	60985155	60985224	3	0.95014	0.956	0.9665	0.93167	0.94217	0.98047	0.899	0.955	0.26367
chr11	61102971	61103079	6	0.96426	0.926	0.94819	0.94217	0.94303	0.97223	0.86117	0.9775	0.00467
chr11	61103007	61103079	5	0.96246	0.9308	0.95193	0.9452	0.94317	0.9714	0.8774	0.9768	0.0056
chr11	61287499	61287692	5	0.92183	0.8824	0.91963	0.9296	0.9329	0.94732	0.8623	0.8076	0.96
chr11	61309799	61309824	2	0.98521	0.972	0.97667	0.979	0.96775	0.9841	0.82475	0.9775	0.9775
chr11	63536451	63536484	3	0.94656	0.957	0.9445	0.899	0.93167	0.9554	0.782	0.984	0.799

FIG. 6 **(Continued)**

chr11	64074558	64074592	3	0.93433	0.9622	0.96417	0.4274	0.86933	0.915	0.86233	0.964	0.917	0.9323	0.92367	0.94933
chr11	64107473	64107555	5	0.9626	0.9597	0.9571	0.96544	0.9436	0.9224	0.9778	0.9612	0.9076	0.9179	0.9264	0.9734
chr11	64216073	64216113	5	0.9714	0.9645	0.95225	0.9406	0.9888	0.983	0.9602	0.1465	0.9428	0.8908	0.9355	0.95673
chr11	64216077	64216113	4	0.96425	0.9773	0.94787	0.9363	0.986	0.9895	0.96275	0.1265	0.9448	0.8791	0.94437	0.95396
chr11	64799720	64799769	5	0.9032	0.9515	0.9492	0.89404	0.9214	0.9634	0.8905	0.905	0.9694	0.9499	0.9072	0.92017
chr11	65491926	65491937	3	0.77	0.9334	0.91842	0.15793	0.89433	0.9173	0.282	0.8447	0.9097	0.9175	0.758	0.07594
chr11	66136091	66136126	5	0.9858	0.972	0.9554	0.94764	0.911	0.9804	0.9819	0.9274	0.9296	0.9178	0.9504	0.97477
chr11	66315412	66315420	2	0.9355	0.9745	0.2765	0.9633	0.9435	NaN	0.96325	0.9108	0.9375	0.7943	0.90775	0.97292
chr11	66315818	66315827	2	0.9605	0.9707	0.32625	0.9685	0.923	0.9305	0.964	0.9668	0.9635	0.922	0.95325	0.96192
chr11	66336068	66336100	6	0.0465	0.0513	0.13404	0.0015	0.4415	0.7888	0.01292	0.0284	0.4052	0.6673	0.12242	0.01296
chr11	66336081	66336100	5	0.0434	0.0521	0.14765	0.0018	0.4402	0.8098	0.0124	0.0312	0.425	0.685	0.1227	0.01309
chr11	66336083	66336100	4	0.0465	0.0539	0.15737	0.00225	0.46025	0.8455	0.01175	0.037	0.4303	0.7003	0.13325	0.01523
chr11	67046832	67046879	4	0.9215	0.9369	0.91156	0.91545	0.35725	0.2353	0.9465	0.8821	0.1543	0.1819	0.91512	0.93446
chr11	67046838	67046879	3	0.922	0.9332	0.91375	0.92773	0.39	0.249	0.968	0.8877	0.1603	0.2058	0.92633	0.93661
chr11	67352377	67352436	4	0.918	0.9252	0.94581	0.87435	0.912	0.957	0.90887	0.891	0.8943	0.92	0.93712	0.90025
chr11	67409480	67409502	5	0.09	0.0063	0.00565	0.01556	0.0096	0	0.008	0.0017	0	0.0035	0.2553	0.0372
chr11	68371563	68371679	11	0.97555	0.9725	0.95886	0.91718	0.95127	0.9685	0.89968	0.9231	0.9437	0.9278	0.95836	0.92256
chr11	68371572	68371669	8	0.97337	0.9714	0.96309	0.91527	0.95813	0.9691	0.90044	0.9234	0.9471	0.9298	0.96119	0.92215
chr11	68371617	68371679	9	0.97656	0.971	0.96247	0.92044	0.95133	0.9811	0.91428	0.9371	0.9493	0.9434	0.96139	0.92976
chr11	68371621	68371679	8	0.98075	0.9693	0.96213	0.91652	0.94737	0.9866	0.91075	0.9342	0.9478	0.9411	0.96081	0.92692
chr11	68371625	68371679	7	0.978	0.9681	0.96246	0.91914	0.94486	0.987	0.91164	0.9393	0.9514	0.9373	0.95879	0.9276
chr11	68371629	68371679	6	0.976	0.9682	0.96062	0.9118	0.94417	0.9848	0.908	0.9362	0.9465	0.9334	0.95975	0.92131
chr11	68371632	68371679	5	0.9712	0.9683	0.96155	0.90896	0.9346	0.9818	0.9056	0.9388	0.9454	0.935	0.9597	0.91867
chr11	68412990	68413066	4	0.9515	0.953	0.90375	0.9554	0.577	0.561	0.975	0.8964	0.2353	0.1109	0.9405	0.96654
chr11	68413094	68413155	4	0.955	0.9538	0.91125	0.933	0.51575	0.465	0.95212	0.8764	0.2145	0.1171	0.94562	0.94192
chr11	68813823	68813924	5	0.9782	0.9637	0.9561	0.96504	0.9552	0.8698	0.9481	0.9556	0.9358	0.9565	0.9469	0.96967
chr11	68999514	68999527	2	1	0.9803	0.91987	0.9607	0.9375	0.7945	0.87225	NaN	0.845	0.2035	0.96875	0.96517
chr11	69446275	69446289	2	0.8395	0.9393	0.94175	0.0921	0.9175	0.939	0.614	0.9443	0.923	0.8808	0.873	0.14008
chr11	69649261	69649403	7	0.96371	0.9732	0.96082	0.92343	0.89986	0.9257	0.9555	0.9291	0.8547	0.8369	0.90571	0.94983
chr11	69892524	69892579	9	0.98756	0.9691	0.97947	0.96611	0.97244	0.9906	0.97139	0.9669	0.9898	0.952	0.93367	0.96511

FIG. 6 (Continued)

chr11	64074558	64074592	3	0.91333	0.969	0.94183	0.95767	0.96961	0.97453	0.901	0.97867	0.971	
chr11	64107473	64107555	5	0.96366	0.9004	0.96327	NaN	0.96527	0.91497	0.0286	0.966	0.9032	
chr11	64216073	64216113	5	0.95777	0.9628	0.9652	0.966	0.96347	0.95512	0.9239	0.9908	0.9722	
chr11	64216077	64216113	4	0.96096	0.9713	0.96675	0.9575	0.96262	0.9515	0.9295	0.9885	0.986	
chr11	64799720	64799769	5	0.89686	0.8562	0.8723	0.0026	0.91223	0.01608	0.2173	0.0078	0.9432	
chr11	65491926	65491937	3	0.08229	0.868	0.88717	0.10833	0.63056	0.13767	0.12617	0.307	0.949	
chr11	66136091	66136126	5	0.96429	0.944	0.96093	0.9378	0.9727	0.97556	0.1602	0.984	0.9692	
chr11	66315412	66315420	2	0.96571	0.989	0.94358	0.9595	0.95942	0.9585	0.8635	1	0.9705	
chr11	66315818	66315827	2	0.95493	0.9795	0.9745	0.9805	0.957	0.9706	0.92825	0.969	0.991	
chr11	66336068	66336100	6	0.00081	0.012	0.00125	0.05967	0.00942	0.0401	0.20275	0.028	0.33833	
chr11	66336081	66336100	5	0.00031	0.0144	0.0011	0.0698	0.00933	0.03968	0.2112	0.025	0.3644	
chr11	66336083	66336100	4	0.00039	0.0145	0.00138	0.075	0.01013	0.0442	0.21863	0.03125	0.3905	
chr11	67046832	67046879	4	0.91275	0.854	0.92142	NaN	0.91442	0.85875	0.08175	0.95425	0.72575	
chr11	67046838	67046879	3	0.91643	0.8517	0.92322	NaN	0.91322	0.85113	0.08117	0.95133	0.74133	
chr11	67352377	67352436	4	0.8827	0.8165	0.90742	0.0175	0.90058	0.1319	0.095	0.96275	0.85375	
chr11	67409480	67409502	5	0.04074	0.0174	0.00363	0	0.00461	0.00132	0	0.0156	0	
chr11	68371563	68371679	11	0.91764	0.956	0.96008	0.00055	0.90717	0.00304	0.05659	0.90236	0.96536	
chr11	68371572	68371669	8	0.90713	0.9534	0.95973	0.00075	0.89983	0.00278	0.055	0.90988	0.97062	
chr11	68371617	68371679	9	0.9176	0.9638	0.96174	0.00067	0.91781	0.00258	0.05222	0.89956	0.97056	
chr11	68371621	68371679	8	0.91612	0.9631	0.96042	0.00075	0.91517	0.00268	0.05381	0.89725	0.96688	
chr11	68371625	68371679	7	0.92167	0.9683	0.96331	0.00086	0.9216	0.0028	0.05586	0.90271	0.96357	
chr11	68371629	68371679	6	0.91443	0.9698	0.96258	0.001	0.91675	0.00217	0.05367	0.88883	0.961	
chr11	68371632	68371679	5	0.90797	0.9722	0.96057	0.0012	0.91557	0.00224	0.0542	0.8968	0.9592	
chr11	68412990	68413066	4	0.96257	0.973	0.96742	0.25625	0.96529	0.93385	0.0625	0.991	0.7335	
chr11	68413094	68413155	4	0.944	0.8968	0.93754	0.19025	0.93071	0.91545	0.0645	0.97175	0.69025	
chr11	68813823	68813924	5	0.97017	0.9516	0.96617	0.09	0.96777	0.01072	0.4265	0.0022	0.975	
chr11	68999514	68999527	2	0.93486	0.9285	0.96375	0.904	0.93825	0.9627	0.7765	0.967	0.943	
chr11	69446275	69446289	2	0.08707	0.04	0.04592	0.976	0.17083	0.9549	0.888	0.984	0.9115	
chr11	69649261	69649403	7	0.93927	0.9083	0.92798	0.89443	0.93512	0.96986	0.2855	0.976	0.94557	
chr11	69892524	69892579	9	0.96541	0.9683	0.97752	0.82444	0.97298	0.95991	0.26783	0.97233	0.97844	

FIG. 6 (Continued)

chr11	70352502	70352604	4	0.93925	0.9754	0.94369	0.9453	0.984	0.983	0.8925	0.2299	0.9543	0.7458	0.8915	0.97067
chr11	70366574	70366592	4	0.96875	0.9687	0.95488	0.9669	0.98925	0.9728	0.93525	0.1024	0.9853	0.8716	0.96612	0.97817
chr11	70490292	70490362	6	0.91817	0.9457	0.89308	0.93003	0.281	0.1352	0.9245	0.8763	0.3282	0.353	0.87292	0.94781
chr11	72738970	72739103	4	0.034	0.8393	0.7155	0.0167	0.86975	0.925	0.02075	0.1169	0.9373	0.8231	NaN	0.02029
chr11	73842721	73842764	4	0.95575	0.9696	0.94944	0.93225	0.9765	0.975	0.94137	0.9775	0.9705	0.9604	0.96662	0.9575
chr11	76667663	76667718	4	0.97225	0.9723	0.94756	0.95085	0.8375	0.9238	0.91525	0.9191	0.914	0.9238	0.88375	0.94104
chr11	95266945	95266960	2	0.9445	0.9722	0.97462	0.0951	1	0.9585	0.42025	0.9555	1	0.9498	0.9085	0.73833
chr11	107752577	107752590	2	0.925	0.9707	0.954	0.916	0.9175	0.914	0.94125	0.8845	0.405	0.943	0.89725	0.9565
chr11	108174706	108174811	5	0.953	0.9925	0.9794	0.93428	0.9684	0.9524	0.9605	0.9683	0.9604	0.9614	0.9491	0.97263
chr11	111358827	111358892	5	0.9014	0.973	0.9425	0.88776	0.948	0.9152	0.9053	0.9075	0.9236	0.9312	0.8655	0.9232
chr11	114062344	114062396	4	0.974	0.9786	0.93356	0.9396	0.92	0.962	0.91287	0.1731	0.9543	0.9039	0.91763	0.95921
chr11	114072168	114072221	5	0.9738	0.9713	0.9318	0.87808	0.8678	0.9524	0.8357	0.201	0.9542	0.8807	0.9354	0.88563
chr11	114449965	114450068	4	0.789	0.9721	0.95781	0.9313	0.9635	0.9325	0.96738	0.9348	0.9353	0.9459	0.12162	0.95271
chr11	117063653	117063727	3	1	0.9791	0.91742	0.9304	0.63767	0.7547	0.94733	0.9005	0.2987	0.6477	0.971	0.935
chr11	117189753	117189823	4	0.9125	0.981	0.95469	0.03165	0.9335	0.9525	0.1435	0.9698	0.9225	0.9361	0.95962	0.04308
chr11	118014072	118014095	2	0.8375	0.9823	0.95263	0.9095	0.8375	0.347	0.927	0.947	0.9265	0.9438	0.78375	0.94033
chr11	127323503	127323543	5	0.955	0.9699	0.93295	0.96412	0.9424	0.9826	0.9625	0.9703	1	0.9509	0.971	0.95733
chr11	128342047	128342116	2	0.953	0.0145	0.1785	0.8908	0.155	0.2085	0.91375	0.9103	0.1955	0.8473	0.828	0.91783
chr11	128499714	128499773	4	0.9815	0.0445	0.08613	0.97555	0.0565	0.0605	0.92912	0.046	0.0348	0.1009	0.95125	0.9715
chr11	128512517	128512541	4	0.98875	0.0626	0.08913	0.9621	0.03625	0	0.91813	0	0	0	0.97412	0.97337
chr11	128801171	128801240	4	0.9825	0.9805	0.95144	0.98675	0.99025	0.972	0.85263	0.1185	0.9858	0.9276	0.91325	0.96829
chr11	129862846	129862906	6	0.94683	0.9781	0.9605	0.97217	0.98033	0.9743	0.98333	0.969	0.946	1	0.95617	0.95934
chr11	129999631	129999640	2	NaN	1	0.96075	0.9141	1	0.9675	0.9625	0.6803	0.941	0.9793	1	0.90958
chr11	130897482	130897517	5	0.9486	0.9631	0.9721	0.92156	0.9714	0.9554	0.9699	0.9384	0.963	0.9556	0.9309	0.94153
chr12	1810318	1810327	2	0.878	0.984	0.98262	0.219	0.946	0.944	0.2525	0.9745	0.908	0.9548	0.978	0.13233
chr12	4535125	4535316	4	0.896	0.9682	0.96144	0.91965	0.947	0.9453	0.9365	0.9353	0.9025	0.952	0.902	0.94717
chr12	6182835	6182840	2	0.9055	0.9582	0.95588	0.0038	0.9565	1	0.18075	0.9498	0.954	0.9503	0.934	0.11817
chr12	6350247	6350302	5	0.9604	0.9644	0.97378	0.93441	NaN	1	0.9766	0.9776	0.9348	0.949	0.9281	0.96269
chr12	6791005	6791011	2	1	0.0377	0.76275	0.93142	0	0.964	0.9165	0.9348	0	0.956	1	0.94708
chr12	6791272	6791305	2	1	0.4637	0.93238	0.9474	0.129	0.9735	0.9885	0.9603	0.031	0.971	0.94325	0.96192

***FIG. 6* (Continued)**

SUBSTITUTE SHEET (RULE 26)

chr11	70352502	70352604	4	0.96539	0.9493	0.96442	0.935	0.96437	0.96435	0.94588	0.9875	0.98675		
chr11	70366574	70366592	4	0.95482	0.948	0.94304	0.9805	0.96733	0.9768	0.97113	0.9585	0.97075		
chr11	70490292	70490362	6	0.94988	0.8967	0.96389	0.34917	0.94858	0.8799	0.13267	0.96883	0.434		
chr11	72738970	72739103	4	0.0098	0.0355	0	NaN	0.00854	0.00463	0.00638	0.09275	0.98675		
chr11	73842721	73842764	4	0.95154	NaN	0.09773	0.97725	0.94754	0.96625	0.9545	0.975	0.9675		
chr11	76667663	76667718	4	0.95386	0.8733	0.94896	0.062	0.94104	0.1249	0.25112	0.94975	0.461		
chr11	95266945	95266960	2	0.69107	0.9	0.88583	0.918	0.906	0.9438	0.9415	0.9445	0.883		
chr11	107752577	107752590	2	0.93507	0.93	0.943	NaN	0.95167	0.977	0.8555	0.9585	0.5155		
chr11	108174706	108174811	5	0.9596	0.9726	0.9753	0.1206	0.96737	0.62966	0.0639	0.8058	0.978		
chr11	111358827	111358892	5	0.90371	0.9064	0.90293	0.1538	0.90333	0.80076	0.8018	0.9288	0.9556		
chr11	114062344	114062396	4	0.95614	0.8943	0.93788	0.9765	0.94258	0.96225	0.93112	0.9705	0.966		
chr11	114072168	114072221	5	0.89217	0.8738	0.8855	0.9268	0.92763	0.9748	0.8968	0.9698	0.9332		
chr11	114449965	114450068	4	0.95764	0.1185	0.93454	0.96925	0.94275	0.96215	0.941	0.95975	0.9515		
chr11	117063653	117063727	3	0.94525	0.9147	0.93356	0.286	0.94939	0.90475	0.13317	0.94733	0.84367		
chr11	117189753	117189823	4	0.03329	0.9313	0.93263	0.00775	0.048	0.0025	0.03938	0.06325	0.95325		
chr11	118014072	118014095	2	0.92757	0.8715	0.97025	0.956	0.95392	0.9612	0.90025	0.9925	0.917		
chr11	127323503	127323543	5	0.9733	1	0.94449	0.9332	0.95772	0.98268	0.8747	0.982	0.9804		
chr11	128342047	128342116	2	0.92443	0.8695	0.935	0.967	0.92017	0.9323	0.914	0.876	NaN		
chr11	128499714	128499773	4	0.97057	0.9783	0.96867	0.88525	0.96129	0.96555	0.64575	0.98	0.03575		
chr11	128512517	128512541	4	0.96889	0.1428	0.97179	0.8975	0.94592	0.9097	0.89475	0.98725	0.01		
chr11	128801171	128801240	4	0.97946	0.97	0.96554	0.97425	0.96408	0.9784	0.96262	0.978	0.984		
chr11	129862846	129862906	6	0.97935	1	0.96736	0.9325	0.98647	0.96327	0.985	0.96633	0.98333		
chr11	129999631	129999640	2	0.95943	0.8335	0.91508	0.9445	0.90908	0.9462	0.96175	0.9565	0.333		
chr11	130897482	130897517	5	0.934	0.9018	0.88997	0.97	0.94863	0.95888	0.9638	0.9844	0.9744		
chr12	1810318	1810327	2	0.10821	0.956	0.91758	0.9205	0.67242	0.97	0.8985	0.993	0.921		
chr12	4535125	4535316	4	0.96789	0.9743	0.95342	0.0039	0.95975	0.84695	0.0555	0.9285	0.9675		
chr12	6182835	6182840	2	0.09871	0.9665	0.89492	0.9525	0.78517	0.9838	0.88175	0.9195	0.9565		
chr12	6350247	6350302	5	0.94767	0.992	0.9656	0.9028	0.94773	0.96864	0.8536	0.9472	0.943		
chr12	6791005	6791011	2	0.96471	0.9335	0.94992	1	0.96092	0.967	0.91725	0.9915	0		
chr12	6791272	6791305	2	0.95607	0.9625	0.96517	0.9355	0.94842	0.9727	0.92125	0.953	0.094		

FIG. 6 **(Continued)**

chr12	6791484	6791524	3	0.98133	0.7257	0.94567	0.94887	0.27267	0.961	0.97533	0.9412	0.302	0.8872	0.91317	0.96006
chr12	10216117	10216131	2	0.9575	0.9237	0.84	0.84838	0.814	0.118	0.95675	0.146	0.389	0	0.95475	0.93833
chr12	10312706	10312757	4	0.98025	0.9681	0.92237	0.9618	0.978	0.972	0.88512	0.0673	0.9263	0.4789	0.91712	0.97858
chr12	10387627	10387633	2	0.9585	0.964	0	0.9541	0.9145	0.125	0.92625	0	0.9085	0	0.963	0.93708
chr12	10555381	10555396	2	1	0.2392	0.0425	0.9698	0.8445	0.127	0.9145	0.0305	0.787	0.0355	0.9175	0.96067
chr12	10560464	10560469	2	0.937	0.9593	0.26975	0.9369	0.983	0.733	0.975	0.7718	0.906	0.3293	0.988	0.95933
chr12	12415303	12415357	6	1	0.9823	0.97221	0.95873	0.9705	1	0.92975	0.9184	0.9285	0.9924	0.97133	0.97347
chr12	12625008	12625059	2	0.9735	0.9508	0.97462	0.9496	0.976	0.952	0.42825	0.9825	0.975	0.9693	0.92975	0.95742
chr12	12932107	12932186	3	NaN	0.9088	0.90033	0.9584	0.25667	0.05	0.936	0.9292	0.0727	0.2488	0.95	0.97783
chr12	14843573	14843655	6	0.022	0.9566	0.96579	0.90847	0.967	0.943	0.96783	0.9264	0.8998	0.933	0.05775	0.94564
chr12	14843590	14843655	4	0.0235	0.9522	0.96687	0.9005	0.969	0.9353	0.9655	0.9236	0.8838	0.9085	0.0605	0.93842
chr12	15923178	15923245	6	0.95867	0.9649	0.93296	0.95569	0.9765	0.9845	0.98758	0.9852	0.9868	0.9617	0.9855	0.97044
chr12	15923182	15923245	5	0.9904	0.9779	0.94735	0.96029	0.9718	0.9814	0.9851	0.9822	0.9842	0.9707	0.9826	0.97078
chr12	26817158	26817245	4	0.93425	0.9283	0.94037	0.9459	0.80925	0.9383	0.91738	0.9389	0.8515	0.9461	0.90162	0.95317
chr12	27502594	27502627	2	1	1	0.96087	0.9301	0.798	0.1875	0.94925	0.9745	0.809	0.9125	0.84125	0.95767
chr12	27502624	27502786	3	1	1	0.97025	0.94	0.79867	0.2273	0.9745	0.9578	0.8837	0.9202	0.91917	0.97511
chr12	27544416	27544442	3	1	0.944	0.95717	0.9586	0.56233	0.2653	0.98617	0.9305	0.866	0.9745	0.89967	0.92017
chr12	32674765	32674784	4	0.94075	0.9537	0.94881	0.00225	0.931	0.9413	0.09238	0.8564	0.9345	0.9363	0.89238	0.01596
chr12	39696473	39696531	5	NaN	0.9867	0.98875	0.91768	1	1	0.9709	0.9741	0.8974	0.9139	0.9833	0.99213
chr12	45626148	45626204	5	0.9818	0.9819	0.9817	0.97336	0.9666	0.8646	0.9651	0.9723	NaN	0.9617	0.9833	0.9644
chr12	47268608	47268685	5	0.8978	0.9744	0.96968	0.92136	0.8992	0.9534	0.9075	0.9682	0.94	0.9288	0.9631	0.92327
chr12	47834360	47834386	4	0.819	0.8548	0.77712	0.93	0.897	0.75	0.85413	0.0509	0.8283	0.6583	0.11425	0.93633
chr12	51874064	51874074	2	0.8335	1	0.97433	0.83333	1	0.969	0.96875	0.8673	0.9285	1	0.646	0.825
chr12	55935511	55935555	3	0.941	0.2031	0.53925	0.94373	0.19467	0.4817	0.935	0.9437	0.296	0.7842	0.90583	0.91783
chr12	55935851	55935859	2	0.956	0.0223	0.221	0.9395	NaN	0.1665	0.90625	0.9493	0.158	0.7525	0.9395	0.95133
chr12	56026985	56027012	2	0.978	0.9738	0.97488	0.9674	0.866	0.8935	0.9705	0.9638	0.9765	0.943	0.96825	0.96275
chr12	56027904	56027910	2	1	0.952	0.9585	0.9694	0.946	0.976	0.96325	0.9745	1	0.9425	0.9815	0.955
chr12	56032397	56032402	2	0.9585	0.9297	0.68287	0.9349	0.829	0.692	0.941	0.9423	0.92	0.9203	1	0.91825
chr12	56034179	56034203	5	0.9866	0.9583	0.92445	0.9362	0.7768	0.886	0.9738	0.9844	0.9164	0.9502	0.9644	0.95863
chr12	56034191	56034203	3	0.97767	0.966	0.91942	0.9376	0.795	0.8703	0.97233	0.982	0.9073	0.9333	0.96667	0.96167

FIG. 6 **(Continued)**

chr12	6791484	6791524	3	0.95481	0.9503	0.96856	0.97067	0.94561	0.97187	0.90167	0.968	0.40167
chr12	10216117	10216131	2	0.93614	0.932	0.95142	0.938	0.9355	0.9796	0.52375	0.9705	0.8245
chr12	10312706	10312757	4	0.9585	0.9645	0.96513	0.974	0.96683	0.9769	0.90275	0.97125	0.9455
chr12	10387627	10387633	2	0.94607	0.957	0.93978	0.9485	0.952	0.9175	0.93425	0.9545	0.887
chr12	10555381	10555396	2	0.98693	0.949	0.98167	1	0.9605	0.979	0.93925	0.9425	0.645
chr12	10560464	10560469	2	0.97821	0.9615	0.96825	1	0.96575	0.9721	0.96125	0.9845	0.9195
chr12	12415303	12415357	6	0.97629	1	0.95778	NaN	0.94459	0.96333	NaN	NaN	0.9345
chr12	12625008	12625059	2	0.97221	0.9545	0.96517	0.909	0.95683	0.9347	0.9265	0.9405	0.9575
chr12	12932107	12932186	3	0.97071	0.9607	0.96733	0.54167	0.9615	0.9604	0.19833	0.96	0.46667
chr12	14843573	14843655	6	0.9404	0.8093	0.94872	0.96683	0.9535	0.96063	0.9215	0.96733	0.992
chr12	14843590	14843655	4	0.92789	0.7968	0.94129	0.958	0.94721	0.94975	0.91925	0.951	0.99575
chr12	15923178	15923245	6	0.97421	0.9832	0.97672	0.96867	0.96172	0.95142	0.99075	0.99383	1
chr12	15923182	15923245	5	0.96906	0.9798	0.97813	0.9874	0.9614	0.95005	0.9889	0.9926	1
chr12	26817158	26817245	4	0.9418	0.9113	0.94463	NaN	0.93883	0.89005	0.30488	0.98875	0.39075
chr12	27502594	27502627	2	0.96438	0.9645	0.96475	0.893	0.96272	0.9751	0.86525	0.976	0.95
chr12	27502624	27502786	3	0.98433	0.9777	0.9685	0.92867	0.96383	0.96933	0.90567	0.97867	0.984
chr12	27544416	27544442	3	0.9136	0.921	0.94411	0.87733	0.93978	0.9466	0.91883	0.93567	0.95433
chr12	32674765	32674784	4	0.01254	0.9158	0.92913	0	0.01371	0.28895	0.09113	0.8915	0.9675
chr12	39696473	39696531	5	0.95088	1	0.9634	NaN	0.97156	0.98104	0.8875	0.9652	0.9272
chr12	45626148	45626204	5	0.95835	0.95	0.9718	0.9492	0.9648	0.9796	0.9436	0.9658	0.9456
chr12	47268608	47268685	5	0.8914	0.9654	0.9324	0.1186	0.89403	0.90556	0.0646	0.9636	0.9692
chr12	47834360	47834386	4	0.93686	0.9105	0.90379	0.96	0.92329	0.9671	0.90037	0.97525	0.81675
chr12	51874064	51874074	2	0.43075	NaN	0.59742	1	0.5961	0.91675	0.8355	0.9845	0.887
chr12	55935511	55935555	3	0.93424	0.9157	0.91156	0.95233	0.9525	0.96687	0.9155	0.97767	0.23833
chr12	55935851	55935859	2	0.94814	0.9425	0.958	0.973	0.95467	0.9464	0.9125	0.876	0.0585
chr12	56026985	56027012	2	0.97157	0.967	0.97575	0.9545	0.967	0.9728	0.92175	0.9815	0.455
chr12	56027904	56027910	2	0.96714	0.8545	0.95092	0.951	0.96742	0.9807	0.8295	0.965	0.452
chr12	56032397	56032402	2	0.96964	NaN	0	1	0.9155	0.9813	0.947	0.985	0.2055
chr12	56034179	56034203	5	0.97609	0.9658	0.9543	0.9584	0.96737	0.9824	0.974	0.9916	0.3764
chr12	56034191	56034203	3	0.98067	0.9573	0.95233	0.942	0.97083	0.98367	0.98467	1	0.336

FIG. 6 **(Continued)**

chr12	56034195	56034203	2	0.9665	0.9547	0.9055	0.937	0.776	0.8305	0.9585	0.973	0.895	0.9	0.97625	0.95742
chr12	56330381	56330462	8	0.9625	0.9833	0.97916	0.96203	0.96513	1	0.97831	0.9793	0.9508	0.983	0.97213	0.97071
chr12	56330389	56330462	7	0.95714	0.9809	0.98057	0.96334	0.96014	1	0.979	0.9764	0.9641	0.9844	0.97364	0.97648
chr12	56408365	56408438	6	0.93883	0.9678	0.96862	0.9704	0.97917	0.9577	0.92542	0.9647	0.9645	0.9745	0.95175	0.96732
chr12	57104557	57104569	2	0.958	0.9525	0.9045	0.20975	1	0.979	0.2365	0.9728	0.9835	0.9823	0.8945	0.92617
chr12	57500276	57500471	8	0.96412	0.9578	0.93884	0.95155	0.95813	0.9696	0.95544	0.9638	0.9554	0.9546	0.96319	0.94352
chr12	57500354	57500431	5	0.98	0.9651	0.94765	0.94888	0.9588	0.9666	0.9548	0.9572	0.9752	0.9678	0.9717	0.94497
chr12	57500390	57500471	6	0.97067	0.9758	0.94858	0.96757	0.971	0.983	0.96175	0.9633	0.9777	0.9575	0.97075	0.95575
chr12	57726776	57726793	5	0.8804	0.9773	0.9418	0.88016	0.3014	0.9228	0.7539	0.9239	0.942	0.9726	0.82	0.8729
chr12	57726787	57726793	2	0.876	0.9818	0.94363	0.8717	0.299	0.9175	0.7565	0.9255	0.948	0.9723	0.81575	0.863
chr12	57726814	57726823	2	0.8515	0.9563	0.89387	0.8678	0.266	0.878	0.77	0.9005	0.9185	0.989	0.83825	0.88042
chr12	57726824	57726838	2	0.914	0.9793	0.93737	0.8914	0.277	0.809	0.81	0.927	0.9325	0.9803	0.882	0.91408
chr12	57726988	57727002	3	0.93267	0.9692	0.971	0.98433	0.509	0.942	0.96467	0.9512	0.983	0.978	0.954	0.97939
chr12	57727011	57727037	3	0.94367	0.97	0.96758	0.9588	0.51233	0.9787	0.98683	0.9585	0.976	0.9895	0.96667	0.97633
chr12	57736138	57736160	5	0.955	0.9677	0.9782	0.94052	0.8984	0.9686	0.9451	0.9695	0.984	0.9761	0.947	0.97423
chr12	67457776	67457793	2	0.9	0.9412	0.93375	0.02733	0.819	0.9	0.137	0.9553	0.8935	0.896	0.85625	0.06275
chr12	68159615	68159624	2	0.947	0.975	0.8945	0.9559	0.8235	0.7655	0.93325	0.0768	0.3465	0.071	0.88675	0.97283
chr12	71564129	71564176	5	1	0.9849	0.9907	0.96828	0.9714	1	0.9923	0.9733	0.9692	0.996	0.9845	0.98533
chr12	71564310	71564366	5	0.9706	0.9885	0.9898	0.9691	1	1	0.9955	0.9797	0.956	0.9876	0.9834	0.98803
chr12	82716509	82716565	5	0.9098	0.9789	0.9722	0.96288	NaN	NaN	0.9653	0.935	1	0.9858	0.9041	0.97217
chr12	89411676	89411772	2	NaN	1	0.981	0.9529	0.6	0.9665	0.988	0.9483	0.8335	0.9183	0.91425	0.98767
chr12	89653336	89653443	9	0.93578	0.9834	0.98141	0.9624	1	NaN	0.98756	0.9894	0.9798	0.9877	NaN	0.97918
chr12	89653343	89653423	7	0.91743	0.9787	0.9927	0.97559	1	NaN	0.984	0.9864	0.974	0.9841	NaN	0.98257
chr12	89653381	89653447	6	0.97617	0.9957	0.98269	0.9707	0.97617	NaN	0.98242	0.9924	0.9697	0.9867	NaN	0.97212
chr12	92468403	92468507	5	0.9376	0.9861	0.9779	0.98144	0.9702	0.9492	0.9721	0.9852	0.9476	0.9868	0.8833	0.98013
chr12	93641465	93641490	5	0.9174	0.9711	0.9816	0.99328	1	1	0.9273	0.9933	NaN	0.9679	0.9631	0.98307
chr12	98501150	98501165	3	0.985	0.959	0.86625	0.9	0.21933	0.088	0.5555	0.9558	0.2857	0.4273	0.95883	0.956
chr12	104481309	104481364	4	0.95025	0.9703	0.94788	0.0101	0.9395	0.9595	0.1515	0.9644	0.9645	0.9659	0.94338	0.01925
chr12	105037920	105037957	3	0.96533	0.9602	0.9385	0.9512	0.209	0.219	0.978	0.9303	0.5993	0.8835	0.91667	0.96133
chr12	105220707	105220928	6	0.9855	0.9814	0.95275	0.94267	0.979	0.9668	0.98217	0.9786	0.9552	0.9447	0.93225	0.961

***FIG. 6* (Continued)**

SUBSTITUTE SHEET (RULE 26)

chr12	56034195	56034203	2	0.97686	0.936	0.94617	0.9475	0.96258	0.9851	0.977	1	0.292	
chr12	56330381	56330462	8	0.9668	0.9618	0.96571	0.9585	0.96583	0.97602	0.962	NaN	0.94838	
chr12	56330389	56330462	7	0.9748	0.9563	0.97079	0.95257	0.96998	0.97597	0.96057	NaN	0.941	
chr12	56408365	56408438	6	0.9312	0.9697	0.97008	0.98883	0.96003	0.96423	0.97975	0.95017	0.92033	
chr12	57104557	57104569	2	0.9185	0.9385	0.97458	0.9535	0.97775	0.9769	0.95975	0.9675	0.962	
chr12	57500276	57500471	8	0.95525	0.7594	0.03531	0.95975	0.93208	0.9805	0.94725	0.98162	0.9605	
chr12	57500354	57500431	5	0.95263	0.6994	0.02483	0.9596	0.92933	0.98152	0.9455	0.9792	0.9614	
chr12	57500390	57500471	6	0.96119	0.8098	0.03372	0.965	0.93947	0.9791	0.95308	0.9835	0.97283	
chr12	57726776	57726793	5	0.9002	0.9886	0.87513	0.9336	0.89393	0.90648	0.8708	0.814	0.9516	
chr12	57726787	57726793	2	0.9	0.986	0.87842	0.953	0.89575	0.8897	0.87525	0.8025	0.959	
chr12	57726814	57726823	2	0.88564	0.982	0.863	0.9665	0.853	0.8847	0.85125	0.811	0.9485	
chr12	57726824	57726838	2	0.87579	0.969	0.88717	0.952	0.88208	0.9152	0.8435	0.852	0.9745	
chr12	57726988	57727002	3	0.96838	1	0.94806	0.92933	0.96116	0.97607	0.85467	0.96133	0.97333	
chr12	57727011	57727037	3	0.96457	0.9893	0.97278	0.93567	0.9695	0.9676	0.81167	0.97233	0.986	
chr12	57736138	57736160	5	0.97123	0.983	0.95847	0.9726	0.96553	0.95956	0.9733	0.9496	0.9526	
chr12	67457776	67457793	2	0.0351	0.973	0.93775	0.885	0.91775	0.9217	0.79375	0.819	0.906	
chr12	68159615	68159624	2	0.96814	0.939	0.95958	0.975	0.95917	0.9714	0.805	0.972	0.868	
chr12	71564129	71564176	5	0.98666	1	0.98747	0.9792	0.9808	0.96895	0.968	0.984	0.9846	
chr12	71564310	71564366	5	0.97834	1	0.9822	0.9826	0.97773	0.96335	0.958	0.9782	1	
chr12	82716509	82716565	5	0.96355	0.9598	0.97043	0.9692	0.97723	0.9742	0.9092	NaN	0.9846	
chr12	89411676	89411772	2	0.97979	1	0.96958	0.8615	0.97367	0.9782	0.7805	0.984	1	
chr12	89653336	89653443	9	0.97259	0.963	0.97935	0.97189	0.97817	0.98294	0.98294	0.96133	0.98989	
chr12	89653343	89653423	7	0.9719	1	0.97657	0.96386	0.98234	0.98131	0.97807	0.95029	0.987	
chr12	89653381	89653447	6	0.97047	0.9112	0.98114	0.98717	0.98175	0.9891	1	0.97533	1	
chr12	92468403	92468507	5	0.97271	0.9618	0.9651	0.0354	0.9676	0.56168	0.3138	0.9828	0.8854	
chr12	93641465	93641490	5	0.97034	0.98	0.96984	0.9846	0.94383	0.93228	1	1	1	
chr12	98501150	98501165	3	0.94995	0.961	0.93978	0.91133	0.93878	0.95327	0.74817	0.971	0.46033	
chr12	104481309	104481364	4	0.01939	0.1098	0.09479	0.9085	0.02383	0.91625	0.87162	0.96725	0.94775	
chr12	105037920	105037957	3	0.97657	0.942	0.97167	0.75533	0.96017	0.95547	0.74733	0.97833	0.13733	
chr12	105220707	105220928	6	0.95919	0.8702	0.10622	0.96017	0.94767	0.97953	0.9235	0.99117	0.96417	

FIG. 6 **(Continued)**

chr12	105220837	105220928	4	0.99225	0.9821	0.94888	0.9496	0.97325	0.9713	0.988	0.9866	0.9518	0.9441	0.948	0.95875
chr12	106356509	106356557	5	0.992	0.9844	0.95365	0.97902	0.9928	0.9786	0.9777	0.9594	0.9554	0.959	0.9414	0.96403
chr12	107433205	107433248	5	0.9858	0.9831	0.99665	0.984	0.9694	0.9652	0.9819	0.98	0.962	0.9888	0.88	0.96717
chr12	108617567	108617590	2	0.9275	0.332	0.102	0.7373	0	0.0385	0.0825	0.0063	0	0	0.894	0.20858
chr12	110009149	110009240	4	1	0.9916	0.93775	0.96205	0.23625	0.2788	0.98862	0.9433	0.4008	0.5184	0.97725	0.97246
chr12	110521586	110521644	4	0.92375	0.9036	0.91206	0.94475	0.19875	0.0463	0.95713	0.9413	0.4313	0.6	0.8805	0.95804
chr12	110521616	110521714	3	0.95633	0.9322	0.96242	0.94673	0.298	0.1127	0.96067	0.9552	0.5113	0.7115	0.9225	0.97261
chr12	110668990	110669046	4	0.943	0.963	0.951	0.93755	0.9165	0.9423	0.91538	0.8643	0.9445	0.9513	0.89787	0.95554
chr12	117005537	117005640	5	0.925	0.98	0.9733	0.95456	0.9722	0.9618	0.9746	0.9197	0.9832	0.9556	0.9349	0.9598
chr12	118246212	118246236	5	1	0.9342	0.9623	0.96264	NaN	0.98	0.9199	0.958	0.9064	0.9711	0.9729	0.96467
chr12	120105458	120105477	2	0.987	0.978	0.96363	0.8272	0.9725	0.969	0.291	0.979	0.961	0.9645	0.969	0.85467
chr12	120482563	120482619	4	0.982	0.9614	0.94169	0.9212	0.94425	0.9215	0.90762	0.1	0.9303	0.9183	0.93075	0.97579
chr12	121248643	121248719	8	0.97988	0.9774	0.97047	0.95785	0.94913	0.9548	0.94631	0.9361	0.9574	0.9557	0.95131	0.96033
chr12	121248664	121248719	7	0.977	0.9741	0.96839	0.9562	0.95229	0.963	0.93864	0.9331	0.9614	0.9524	0.96329	0.95731
chr12	121248671	121248719	6	0.97317	0.9714	0.96983	0.9562	0.94817	0.9652	0.9315	0.9358	0.9588	0.9472	0.96083	0.95578
chr12	121248689	121248719	5	0.9736	0.9677	0.9712	0.95644	0.9468	0.9628	0.9287	0.9358	0.96	0.9462	0.9578	0.95607
chr12	121248955	121248987	4	0.94075	0.9592	0.95131	0.9424	0.96075	0.8938	0.94812	0.9168	0.9728	0.9556	0.87825	0.96025
chr12	121283000	121283078	3	0.89	0.9672	0.97942	0.93927	0.94133	0.977	0.9685	0.9603	0.9827	0.9633	0.1005	0.96961
chr12	121986490	121986504	2	0.94	0.9767	0.96863	0.47865	0.976	0.9665	0.89275	0.9303	0.957	0.9328	0.96	0.91058
chr12	122032627	122032754	4	0.92775	0.9768	0.95975	0.9082	0.94875	0.973	0.88275	0.9518	0.9525	0.9414	0.91463	0.92358
chr12	122166907	122167027	4	0.89925	0.8903	0.90275	0.94635	0.32625	0	0.93938	0.8835	0.1385	0.1366	0.95325	0.94996
chr12	122227370	122227397	3	0.95467	0.784	0.28075	0.9366	0.85	0.257	0.84483	0.1442	0.454	0.0848	0.9505	0.95522
chr12	122244621	122244694	3	0.921	0.7053	0.76358	0.9466	0.08633	0	0.959	0.893	0.0457	0.2077	0.84533	0.95889
chr12	122412578	122412651	5	0.9656	0.8597	0.9049	0.91032	0.3196	0.592	0.9473	0.9078	0.173	0.1931	0.9479	0.91073
chr12	122559075	122559146	5	0.98	0.9722	0.9716	0.96224	0.9948	0.9808	0.935	0.9702	0.98	0.9689	0.9528	0.9744
chr12	122820711	122820791	6	0.95967	0.9691	0.96592	0.95198	0.96633	0.9042	0.91808	0.9633	0.9352	0.919	0.91158	0.95886
chr12	122874166	122874223	5	0.9652	0.0379	0.10053	0.92904	0.3452	0.429	0.9289	0.6573	0.4562	0.8546	0.9478	0.9667
chr12	123236776	123236818	4	0.90575	0.9242	0.93423	0.8796	0.9085	0.92	0.91475	0.8726	0.8758	0.8963	0.91538	0.93312
chr12	123469184	123469249	5	0.9588	0.9651	0.973	0.94872	0.9766	0.979	0.9671	0.9569	0.9714	0.9614	0.944	0.9629
chr12	123475472	123475488	3	0.951	0.827	0.8605	0.95967	0.84267	0.912	0.96167	0.9598	0.821	0.9697	0.91967	0.9595

***FIG. 6* (Continued)**

SUBSTITUTE SHEET (RULE 26)

chr12	105220837	105220928	4	0.954	0.8608	0.06929	0.96175	0.93983	0.9811	0.93312	0.98675	0.9745	
chr12	106356509	106356557	5	0.97792	NaN	0.9571	0.9588	0.96253	0.96635	0.9578	0.974	0.947	
chr12	107433205	107433248	5	0.98026	0.9504	0.96603	0.9834	0.95381	0.9814	0.9248	0.9726	0.9764	
chr12	108617567	108617590	2	0.43586	0.759	0.82367	0	0.76892	0.1341	0.024	0.9495	0.04	
chr12	110009149	110009240	4	0.96275	0.9338	0.96633	0.09275	0.95567	0.8688	0.10413	0.9505	0.4645	
chr12	110521586	110521644	4	0.94125	0.7465	0.94617	0.91875	0.95471	0.96115	0.77775	0.9155	0.38175	
chr12	110521616	110521714	3	0.95481	0.8997	0.96106	0.99133	0.96122	0.969	0.91117	0.95667	0.51867	
chr12	110668990	110669046	4	0.95157	0.9448	0.96054	0.02375	0.94512	0.29151	0.10062	0.91625	0.88975	
chr12	117005537	117005640	5	0.96346	0.0514	0.92117	0.9578	0.95553	0.96464	0.9619	0.9618	0.9368	
chr12	118246212	118246236	5	0.95257	0.9858	0.9482	0.987	0.94859	0.93988	0.982	0.9794	0.9798	
chr12	120105458	120105477	2	0.83707	0.9215	0.96367	0.7875	0.883	0.9391	0.80475	0.977	0.923	
chr12	120482563	120482619	4	0.96014	0.9703	0.96525	0.9585	0.95387	0.97415	0.9405	0.9735	0.957	
chr12	121248643	121248719	8	0.95979	0.9608	0.95694	0.05988	0.9629	0.90955	0.08888	0.96638	0.97762	
chr12	121248664	121248719	7	0.95914	0.9551	0.95502	0.05957	0.96038	0.90774	0.08314	0.968	0.97986	
chr12	121248671	121248719	6	0.96076	0.9477	0.95292	0.05567	0.959	0.9074	0.07783	0.96517	0.9765	
chr12	121248689	121248719	5	0.962	0.947	0.9489	0.0508	0.95564	0.90672	0.0714	0.9732	0.9794	
chr12	121248955	121248987	4	0.96068	0.97	0.95292	0.08775	0.96387	0.8851	0.11738	0.97325	0.97825	
chr12	121283000	121283078	3	0.97362	0.9537	0.962	0.979	0.95544	0.9778	0.9355	0.97733	0.98633	
chr12	121986490	121986504	2	0.91793	0.9735	0.97525	0.845	0.97375	0.9279	0.893	0.9225	0.88	
chr12	122032627	122032754	4	0.91732	0.6628	0.87175	0.02325	0.89946	0.18515	0.14413	0.94325	0.92225	
chr12	122166907	122167027	4	0.95096	0.9348	0.95325	0.3105	0.94879	0.9058	0.13075	0.9335	0.6845	
chr12	122227370	122227397	3	0.9341	0.927	0.95117	0.941	0.94917	0.96073	0.9175	0.95333	0.82367	
chr12	122244621	122244694	3	0.9699	0.1733	0.96406	0.95767	0.94761	0.9674	0.8345	0.95933	0.33667	
chr12	122412578	122412651	5	0.85394	0.9292	0.96797	0.5098	0.95363	0.9114	0.1262	0.9696	0.1936	
chr12	122559075	122559146	5	0.9592	0.9544	0.97147	0.0138	0.97553	0.88144	0.1877	0.9632	0.9874	
chr12	122820711	122820791	6	0.95345	0.8592	0.91429	0.00217	0.94679	0.01999	0.05317	0.52983	0.908	
chr12	122874166	122874223	5	0.9682	0.9708	0.95577	0.9712	0.95463	0.95892	0.9316	0.9574	0.2512	
chr12	123236776	123236818	4	0.94432	0.9233	0.90357	0.056	0.89167	0.3139	0.06563	0.94775	0.903	
chr12	123469184	123469249	5	0.96017	0.988	0.95553	0.4218	0.94317	0.05828	0.6271	0.00368	0.9836	
chr12	123475472	123475488	3	0.96719	0.9783	0.96444	0.926	0.965	0.98547	0.934	0.97433	0.33367	

FIG. 6 **(Continued)**

chr12	123751005	123751044	4	0.9645	0.9773	0.95488	0.9518	0.9555	0.9355	0.86038	0.1224	0.92	0.86	0.96288	0.97075
chr12	123751082	123751229	4	0.99275	0.9583	0.91744	0.9506	0.97	0.9615	0.93575	0.046	0.9165	0.792	0.95987	0.96646
chr12	123751205	123751280	5	0.9656	0.9677	0.92385	0.95416	0.9866	0.9866	0.9511	0.0658	0.9316	0.7992	0.9608	0.9784
chr12	124423081	124423302	10	0.9709	0.9729	0.9754	0.9253	0.9685	0.9647	0.95925	0.9734	0.9721	0.966	0.80805	0.95318
chr12	124423108	124423302	8	0.978	0.9738	0.97209	0.93612	0.97437	0.9591	0.96475	0.9759	0.9678	0.9658	0.78687	0.9575
chr12	124424330	124424376	4	0.959	0.9738	0.92894	0.9374	0.962	0.9755	0.89613	0.1245	0.9545	0.9074	0.93512	0.96517
chr12	128814786	128814844	4	0.97075	0.9813	0.95856	0.9714	0.989	0.985	0.90525	0.1	0.968	0.841	0.936	0.96554
chr12	128844687	128844692	2	NaN	0.9762	0.9375	0.83333	0.9285	1	1	0.9583	1	0.9698	0.95825	0.4375
chr12	130887637	130887702	7	0.945	0.9704	0.97464	0.97195	0.95643	1	0.95464	0.9755	0.9689	0.9731	0.93657	0.95829
chr12	131766534	131766681	6	0.95133	0.9847	0.95758	0.9501	0.95033	0.9467	0.94458	0.9423	0.9735	0.9565	0.94342	0.96186
chr12	131766536	131766681	5	0.9592	0.9865	0.9562	0.95332	0.951	0.9474	0.9403	0.9466	0.9682	0.9643	0.943	0.963
chr12	131985317	131985403	7	0.97414	0.9631	0.89639	0.00589	0.93786	0.9821	0.115	0.9339	0.9547	0.965	0.94643	0.01433
chr12	131985326	131985403	6	0.97367	0.9648	0.89487	0.00687	0.9395	0.9872	0.10892	0.9293	0.9567	0.9616	0.94633	0.01533
chr12	131985370	131985403	5	0.9706	0.9643	0.8963	0.00824	0.9426	0.9944	0.1059	0.93	0.9536	0.9673	0.9494	0.0154
chr12	131985425	131985489	5	0.9088	0.9603	0.90055	0.05896	0.9428	0.9544	0.1825	0.9345	0.971	0.9619	0.9597	0.0498
chr12	132362362	132362424	7	0.97614	0.9587	0.95386	0.95348	0.96529	0.9286	0.9835	0.9528	0.9756	0.9634	0.94764	0.96129
chr12	132772723	132772747	4	0.9495	0.9603	0.95344	0.11669	0.97325	0.9745	0.17925	0.9021	0.9038	0.99	0.93563	0.20374
chr13	21076603	21076650	5	0.9286	0.9771	0.9388	0.91456	0.9664	0.9784	0.8879	0.232	0.9664	0.8879	0.9537	0.94023
chr13	21579488	21579499	2	1	0.9518	0.91525	0.94337	0.976	0.7245	0.857	0.2725	0.7855	0.1423	0.94825	0.94875
chr13	21590730	21590834	5	1	0.9674	0.95185	0.92068	0.959	0.946	0.9515	0.9129	0.9852	0.947	0.9668	0.95943
chr13	24251825	24251863	5	0.9492	0.0305	0.06623	0.96	0	0	0.8396	0.0298	0	0.0018	0.9287	0.95407
chr13	24642366	24642420	4	1	0.9508	0.9361	0.96235	0.32525	0.191	0.96337	0.9566	0.3265	0.7871	0.8895	0.96408
chr13	29494657	29494699	5	0.9616	0.9697	0.9744	0.95812	0.967	0.9662	0.9475	0.9514	0.9486	0.9502	0.9683	0.95687
chr13	29570379	29570440	3	0.949	0.963	0.96592	0.81813	0.95167	0.9497	0.35117	0.954	0.9407	0.9603	0.98283	0.92561
chr13	30107199	30107257	4	0.94175	0.9802	0.94912	0.04715	0.96575	0.9733	0.16038	0.9474	0.9448	0.9635	0.91625	0.04646
chr13	30146032	30146106	3	0.94033	0.8578	0.89525	0.92387	0.14133	0.2033	0.91067	0.8595	0.24	0.176	0.84817	0.93239
chr13	30342219	30342429	6	0.91683	0.9696	0.96783	0.9384	0.96833	0.9592	0.97917	0.9519	0.9555	0.9475	0.92758	0.96461
chr13	30395710	30395744	4	0.7485	0.0498	0.06413	0.00685	0	0	0.03688	0.0898	0.088	0.0631	0.22	0.01083
chr13	30444051	30444247	5	0.9844	0.9835	0.98595	0.94788	0.9544	0.9684	0.9316	0.9498	0.9642	0.9592	0.8956	0.95522
chr13	30444143	30444260	6	0.95767	0.9796	0.98475	0.9584	0.94067	0.9737	0.92842	0.9737	0.9525	0.9753	0.93017	0.95937

***FIG. 6* (Continued)**

SUBSTITUTE SHEET (RULE 26)

chr12	123751005	123751044	4	0.96118	0.97	0.962	0.98275	0.96083	0.9702	0.948	0.981	0.968	
chr12	123751082	123751229	4	0.96582	0.9588	0.96538	0.9835	0.96637	0.9721	0.9465	0.9765	0.9795	
chr12	123751205	123751280	5	0.97394	0.9662	0.97253	0.979	0.97087	0.97944	0.9608	0.9854	0.9664	
chr12	124423081	124423302	10	0.94911	0.889	0.92312	0.9699	0.95548	0.97176	0.95585	0.9799	0.97	
chr12	124423108	124423302	8	0.95332	0.916	0.93717	0.96537	0.963	0.97213	0.95781	0.97788	0.97225	
chr12	124424330	124424376	4	0.965	NaN	0.88021	0.958	0.95054	0.97	0.945	0.981	0.9725	
chr12	128814786	128814844	4	0.96982	0.9543	0.9405	0.94975	0.97225	0.975	0.86762	0.97175	0.979	
chr12	128844687	128844692	2	0.81254	0.9375	0.98058	1	0.90325	0.9294	0.86875	1	0.909	
chr12	130887637	130887702	7	0.96659	NaN	0.97002	0.95657	0.96321	0.94857	0.92093	0.99157	0.98314	
chr12	131766534	131766681	6	0.97024	0.9357	0.95514	NaN	0.95919	0.0166	0.16992	0.002	0.97217	
chr12	131766536	131766681	5	0.97143	0.9388	0.95983	NaN	0.96183	0.01628	0.1826	0.0024	0.9706	
chr12	131985317	131985403	7	0.01862	0	0.00202	0.96971	0.02736	0.96643	0.95879	0.96414	0.956	
chr12	131985326	131985403	6	0.01703	0	0.002	0.969	0.02661	0.96437	0.95858	0.9615	0.95317	
chr12	131985370	131985403	5	0.01527	0	0.00163	0.9664	0.0256	0.9612	0.9591	0.9562	0.9528	
chr12	131985425	131985489	5	0.05531	0.0028	0.00303	0.9532	0.07417	0.96816	0.9544	0.963	0.9694	
chr12	132362362	132362424	7	0.96473	0.9731	0.93019	0.97671	0.96457	0.96857	0.96036	0.97714	0.94086	
chr12	132772723	132772747	4	0.21055	0.801	0.87662	0.01775	0.18796	0.10255	0.22887	0.72825	0.961	
chr13	21076603	21076650	5	0.92446	0.9208	0.91847	0.9508	0.9225	0.96736	0.9586	0.9782	0.965	
chr13	21579488	21579499	2	0.9495	0.985	0.93992	0.956	0.92082	0.9511	0.284	0.9845	0.93	
chr13	21590730	21590834	5	0.95763	0.9638	0.9461	0.8146	0.9549	0.902	0.1626	0.9366	0.9722	
chr13	24251825	24251863	5	0.97609	0.9858	0.95993	0.9628	0.9471	0.96752	0.8782	0.9696	0.0042	
chr13	24642366	24642420	4	0.97068	0.9713	0.96025	0.517	0.94479	0.96265	0.42412	0.97275	0.229	
chr13	29494657	29494699	5	0.97494	0.9794	0.9769	0.1414	0.97227	0.76064	0.561	0.9766	0.9694	
chr13	29570379	29570440	3	0.92338	0.9823	0.97056	0.954	0.93172	0.96613	0.92633	0.97133	0.98333	
chr13	30107199	30107257	4	0.04321	0.0305	0.00467	0.95975	0.08079	0.94335	0.89638	0.96075	0.9545	
chr13	30146032	30146106	3	0.93762	0.9483	0.94339	0.18933	0.92417	0.888	0.0845	0.96867	0.47867	
chr13	30342219	30342429	6	0.95824	0.9303	0.95772	0.966	0.95564	0.96707	0.93367	0.98	0.96717	
chr13	30395710	30395744	4	0.00821	0.0383	0.00046	0	0.00575	0.0426	0.01188	0.0075	0.12375	
chr13	30444051	30444247	5	0.96606	0.92	0.9406	NaN	0.9653	0.01536	0.1034	0.0184	0.976	
chr13	30444143	30444260	6	0.97045	0.9488	0.95003	0.01533	0.97247	0.03813	0.10217	0.040333	0.98617	

FIG. 6 **(Continued)**

chr13	30444163	30444260	5	0.9492	0.9755	0.98315	0.95644	0.9554	0.9802	0.9206	0.9726	0.943	0.9703	0.9569	0.95452
chr13	39085460	39085469	2	1	1	0.82917	0.93933	NaN	1	0.8335	0.8043	1	0.852	0.8875	0.72083
chr13	42070230	42070309	2	0.99	0.9878	0.97562	0.9576	0.9675	0.981	0.533	0.9733	0.97	0.9675	0.89025	0.95317
chr13	42942703	42942759	5	1	0.98	0.9654	0.95572	NaN	0.9466	0.9216	0.9578	0.9334	0.983	0.92	0.97238
chr13	44815850	44815915	3	0.856	0.6584	0.8155	0.00347	0.06733	0.0193	0.16883	0.7185	0.0247	0.0678	0.753	0.00483
chr13	46651442	46651522	5	0.9608	0.9563	0.9635	0.95012	0.8842	0.9094	0.9504	0.9701	0.9522	0.9644	0.9464	0.98253
chr13	46651477	46651522	3	0.96067	0.9562	0.97117	0.94987	0.874	0.8923	0.956	0.9698	0.953	0.9573	0.933	0.98283
chr13	46651527	46651587	4	0.97325	0.9592	0.97637	0.95415	0.871	0.96	0.9655	0.9611	0.933	0.9661	0.96087	0.97442
chr13	46651554	46651587	3	0.983	0.9456	0.983	0.95133	0.83667	0.9467	0.96483	0.9553	0.9107	0.9612	0.963	0.97122
chr13	46651574	46651587	2	1	0.9503	0.99538	0.9526	0.828	0.9555	0.96925	0.9758	0.9295	0.9878	0.983	0.97275
chr13	46651616	46651650	3	0.989	0.9574	0.99158	0.9626	0.84333	1	0.97633	0.9563	0.983	0.9675	0.9515	0.96667
chr13	50977859	50977916	6	1	0.9834	0.96853	0.96879	1	0.9833	0.96692	0.9633	0.9883	0.9556	0.99508	0.98086
chr13	50977875	50977931	6	0.96667	0.9788	0.97192	0.97446	1	0.9833	0.966	0.9743	0.9883	0.9725	1	0.97106
chr13	53560026	53560106	9	NaN	0.9909	0.97408	0.96747	NaN	0.9623	0.97217	0.9655	0.9467	0.9515	0.88017	0.96602
chr13	75385525	75385555	3	0.943	0.9384	0.972	0.96073	0.56167	0.711	0.96283	0.969	0.8407	0.9497	0.92017	0.97311
chr13	76991184	76991321	3	0.93733	0.9344	0.81475	0.93987	0.65367	0.8277	0.89717	0.1032	0.3073	0.0532	0.93083	0.95511
chr13	80888119	80888154	5	0.9768	0.9817	0.94455	0.95016	NaN	0.9346	0.8884	0.0732	0.9312	0.9236	0.8897	0.97757
chr13	80888131	80888154	4	0.97675	0.9808	0.94644	0.958	NaN	0.9425	0.889	0.0715	0.9425	0.9268	0.90712	0.97975
chr13	95273900	95273988	5	0.2546	0.9653	0.9556	0.90988	0.9692	0.9684	0.9631	0.9507	0.9564	0.9632	0.244	0.9446
chr13	95273907	95273988	4	0.2015	0.9706	0.95675	0.90385	0.9615	0.9605	0.96387	0.9558	0.9455	0.9623	0.23025	0.94029
chr13	99215481	99215607	5	0.919	0.004	0.0408	0.87588	0.0514	0	0.8207	0.0026	0.0022	0	0.9212	0.88763
chr13	99366646	99366740	3	0.96767	0.1397	0.67475	0.9362	0.623	0.768	0.976	0.9152	0.6737	0.917	0.9475	0.96844
chr13	99380956	99381085	6	0.96717	0.0249	0.04775	0.95643	0.0495	0.1125	0.87208	0.0014	0.0353	0.0012	0.95967	0.97231
chr13	99380978	99381085	5	0.971	0.0217	0.04705	0.95828	0.026	0.0722	0.8681	0	0.0242	0	0.9567	0.97647
chr13	99381033	99381085	4	0.98225	0.0216	0.04631	0.9632	0.018	0.056	0.86438	0	0.017	0	0.9605	0.97871
chr13	99429872	99429919	6	0.92567	0.959	0.96054	0.9484	0.97033	0.9405	0.95	0.9636	0.9473	0.9678	0.89275	0.97958
chr13	99429877	99429919	5	0.9264	0.9583	0.95685	0.94424	0.9672	0.9464	0.9564	0.9563	0.9432	0.9682	0.8984	0.98017
chr13	100625260	100625267	2	0.9	0.9597	0.94112	0.9203	0.421	0.825	0.98075	0.9628	0.8665	0.9108	0.941	0.951
chr13	102006767	102006807	5	1	0.9664	0.9767	0.98608	0.9556	0.927	0.9802	0.9492	0.98	0.9544	0.8763	0.9784
chr13	103420934	103420990	5	0.9332	0.9753	0.9822	0.97572	1	0.917	0.9553	0.9708	0.9932	0.9864	0.9074	0.93787

FIG. 6 **(Continued)**

chr13	30444163	30444260	5	0.9712	0.9486	0.964	0.0184	0.97673	0.04576	0.0976	0.0484	0.9908		
chr13	39085460	39085469	2	0.97913	1	0.90252	NaN	0.91325	0.93013	0.69425	1	0.9375		
chr13	42070230	42070309	2	0.94329	0.943	0.93608	0.9435	0.94983	0.9818	0.946	0.989	0.965		
chr13	42942703	42942759	5	0.97657	1	0.94917	0.92	0.96817	0.96776	0.9691	0.9592	1		
chr13	44815850	44815915	3	0.00895	0.1023	0.02383	0.322	0.02328	0.91827	0.05533	0.93467	0.151		
chr13	46651442	46651522	5	0.97174	0.9814	0.9653	0.9166	0.96117	0.96496	0.8795	0.972	0.3868		
chr13	46651477	46651522	3	0.96957	0.99	0.96367	0.89667	0.96117	0.96393	0.84867	0.961	0.378		
chr13	46651527	46651587	4	0.95793	0.9815	0.96667	0.93775	0.95967	0.96445	0.92075	0.97775	0.35425		
chr13	46651554	46651587	3	0.95843	0.9817	0.96256	0.93333	0.95911	0.96993	0.91233	0.97433	0.282		
chr13	46651574	46651587	2	0.95157	0.9815	0.96208	0.947	0.96	0.9721	0.96875	0.9745	0.2835		
chr13	46651616	46651650	3	0.96157	0.9707	0.95728	0.951	0.96106	0.97493	0.91583	0.98667	0.37833		
chr13	50977859	50977916	6	0.97252	0.9862	0.96369	0.965	0.95603	0.97489	0.97117	0.98417	0.9905		
chr13	50977875	50977931	6	0.97402	1	0.96753	0.98017	0.93331	0.98383	0.97325	0.99133	1		
chr13	53560026	53560106	9	0.95521	0.937	0.96872	0.97933	0.96948	0.98849	0.94322	0.99311	NaN		
chr13	75385525	75385555	3	0.97338	0.9937	0.96372	0.903	0.97944	0.9716	0.69917	0.982	0.25733		
chr13	76991184	76991321	3	0.94857	0.899	0.94839	0.887	0.9405	0.95173	0.4835	0.95267	0.779		
chr13	80888119	80888154	5	0.96366	0.9708	0.96617	0.9604	0.95683	0.9754	0.9424	0.9812	1		
chr13	80888131	80888154	4	0.97104	0.9828	0.96821	0.96175	0.95671	0.97825	0.95425	0.981	1		
chr13	95273900	95273988	5	0.94189	0.3644	0.95973	0.9438	0.95563	0.96944	0.9394	0.9642	0.9846		
chr13	95273907	95273988	4	0.94	0.2713	0.95629	0.94475	0.95488	0.9685	0.92738	0.963	0.98475		
chr13	99215607	99215481	5	0.92277	0.8856	0.86133	0.9216	0.83337	0.802	0.8553	0.8732	0		
chr13	99366740	99366646	3	0.95957	0.9377	0.97289	0.967	0.9675	0.97813	0.89683	0.96867	0.58367		
chr13	99380956	99381085	6	0.97429	0.9218	0.96447	0.30833	0.94269	0.77717	0.19617	0.9895	0.0445		
chr13	99380978	99381085	5	0.97291	0.9192	0.96047	0.2946	0.94217	0.757	0.1828	0.9904	0.0446		
chr13	99381033	99381085	4	0.97382	0.9363	0.95842	0.285	0.94429	0.74845	0.16675	0.9945	0.04075		
chr13	99429872	99429919	6	0.9549	0.9652	0.97767	NaN	0.96544	0.03263	0.07058	0.045167	0.96983		
chr13	99429877	99429919	5	0.95211	0.9706	0.9756	NaN	0.96357	0.02288	0.0731	0.0342	0.9772		
chr13	100625260	100625267	2	0.971	0.912	0.94383	0.8125	0.9315	0.973	0.93025	0.991	0.915		
chr13	102006767	102006807	5	0.97549	0.9088	0.9515	0.964	0.95387	0.96364	0.8799	0.9584	0.9412		
chr13	103420934	103420990	5	0.93983	0.9722	0.9613	NaN	0.95617	0.97376	0.923	0.978	NaN		

FIG. 6 **(Continued)**

chr13	109733804	109733831	4	0.95075	0.9823	0.94944	0.9573	0.99	0.9645	0.88475	0.1795	0.9605	0.9138	0.899	0.97592			
chr13	110665674	110665744	4	0.93025	0.9798	0.94075	0.02115	0.95375	0.965	0.15937	0.947	0.9618	0.972	0.93437	0.03571			
chr13	110675742	110675883	9	0.988	0.978	0.98014	0.94338	0.96889	0.9696	0.88972	0.9497	0.9652	0.9524	0.95561	0.9662			
chr13	110675744	110675883	8	0.9865	0.9781	0.98188	0.94307	0.97213	0.9708	0.89056	0.9519	0.9609	0.9487	0.95006	0.9676			
chr13	110675780	110675857	5	0.9822	0.9753	0.9774	0.94008	0.9692	0.9532	0.8898	0.9501	0.9704	0.9337	0.9491	0.96907			
chr13	110675798	110675872	5	0.9872	0.9737	0.9743	0.94688	0.9666	0.9594	0.8883	0.957	0.9672	0.9407	0.9449	0.97307			
chr13	111254802	111254866	7	0.95929	0.9769	0.9767	0.97771	0.95257	0.9773	0.98571	0.9743	0.9699	0.9794	0.96064	0.97605			
chr13	111254937	111255042	11	NaN	0.9729	0.96845	0.96783	0.955	0.9696	0.97759	0.9574	0.9671	0.963	0.96714	0.95671			
chr13	111254965	111255042	9	NaN	0.9727	0.96228	0.96316	0.95544	0.9628	0.97706	0.9638	0.9651	0.9658	0.96522	0.95587			
chr13	111304219	111304278	5	0.9854	0.9673	0.91335	0.93604	0.9032	0.6938	0.8115	0.2273	0.5702	0.2955	0.947	0.95927			
chr13	111304252	111304278	4	0.98725	0.9604	0.91825	0.9388	0.90225	0.6818	0.80337	0.2076	0.5903	0.29	0.95038	0.95475			
chr13	112768173	112768248	5	0.9426	0.9471	0.8573	0.00227	NaN	0.871	0.0972	0.7515	0.745	0.8983	0.9317	0.00917			
chr13	113067551	113067671	7	0.96671	0.9686	0.96168	0.95534	0.95043	0.9631	0.97579	0.9427	0.9507	0.9439	0.92664	0.96452			
chr13	113068922	113069016	8	0.9685	0.9684	0.96878	0.95334	0.968	0.9703	0.96194	0.9538	0.9243	0.9604	0.93294	0.96758			
chr13	113069069	113069189	7	0.95743	0.9723	0.96214	0.96766	0.96757	NaN	0.94429	0.9657	0.9464	0.9597	0.93064	0.95967			
chr13	113069120	113069189	5	0.9674	0.9761	0.96805	0.96696	0.9642	NaN	0.9594	0.9791	0.971	0.9748	0.9424	0.95677			
chr13	113609054	113609148	6	0.96667	0.9862	0.9555	0.91597	0.97933	0.989	0.94058	0.9804	0.9772	0.9744	0.9475	0.93861			
chr13	113609074	113609148	5	0.9682	0.9842	0.9568	0.91296	0.98	0.9908	0.9367	0.9801	0.9768	0.9749	0.9491	0.935			
chr13	113727631	113727742	7	0.95586	0.9725	0.95893	0.95179	0.95729	0.9789	0.97507	0.9597	0.938	0.9474	0.94886	0.96271			
chr13	114070816	114070843	4	0.9845	0.9828	0.95531	0.9739	0.98725	1	0.7805	0.0045	0.9698	0.8978	0.98425	0.9765			
chr13	114113800	114113854	5	1	0.9461	0.95	0.95765	0.9858	0.9652	0.8128	0.9524	0.9138	0.9092	0.946	0.95993			
chr13	114125797	114125818	4	0.97025	0.9697	0.91438	0.9601	0.98425	0.9835	0.82825	0.2003	0.9695	0.9559	0.95637	0.96883			
chr14	20457079	20457112	4	0.96075	0.9687	0.92844	0.0104	0.958	0.952	0.14263	0.9563	0.9548	0.9656	0.92837	0.0285			
chr14	20690183	20690218	5	0.9652	0.9753	0.95205	0.93124	0.9396	0.9724	0.9398	0.963	0.9294	0.9663	0.9644	0.89973			
chr14	21499540	21499552	2	0.9735	0.9403	0.92063	0.974	0.8365	0.313	0.98325	0.9663	0.923	0.9598	0.95725	0.96508			
chr14	22529340	22529401	4	1	0.1483	0.124	0.95365	0.11325	0.0553	0.98025	0.9068	0.0193	0.1849	0.91088	0.96696			
chr14	22547267	22547387	4	0.899	0.135	0.15387	0.8223	0.03925	0.036	0.8775	0.852	0.0528	0.1366	0.86487	0.84983			
chr14	23090077	23090087	2	0.943	0.9878	0.95525	0.8401	0.9705	0.9425	0.3685	0.987	0.983	0.969	0.92975	0.90783			
chr14	23115738	23115776	4	0.97675	0.9759	0.94344	0.92105	0.95675	1	0.96325	0.9443	0.8493	0.8764	0.92825	0.94867			
chr14	23117700	23117840	6	0.95533	0.9767	0.94712	0.9408	0.97	0.9265	0.96183	0.958	0.945	0.9542	0.93525	0.94722			

FIG. 6 **(Continued)**

chr13	109733804	109733831	4	0.97636	0.9755	0.98229	0.977	0.978	0.97875	0.93612	0.97375	0.983	
chr13	110665674	110665744	4	0.04075	0	0.01092	0.022	0.02967	0.03855	0.56663	0.95225	0.97375	
chr13	110675742	110675883	9	0.96113	0.9794	0.97202	0.00544	0.95731	0.03924	0.25767	0.97244	0.98556	
chr13	110675744	110675883	8	0.96111	0.9769	0.97146	0.00188	0.95762	0.03925	0.21181	0.97387	0.98375	
chr13	110675780	110675857	5	0.95546	0.9798	0.96933	0	0.9537	0.02604	0.1934	0.9716	0.9816	
chr13	110675798	110675872	5	0.9606	0.9802	0.971	0	0.96723	0.02564	0.1537	0.9776	0.9834	
chr13	111254802	111254866	7	0.97555	0.9791	0.9759	0.98171	0.98167	0.9766	0.95736	0.95	0.98043	
chr13	111254937	111255042	11	0.96997	0.9725	0.96986	0.96845	0.9758	0.96593	0.96968	0.96509	0.97291	
chr13	111254965	111255042	9	0.96778	0.9711	0.96978	0.96589	0.97454	0.97058	0.97022	0.96478	0.97478	
chr13	111304219	111304278	5	0.95434	0.9834	0.9673	0.16	0.95573	0.91168	0.0894	0.9448	0.9062	
chr13	111304252	111304278	4	0.95493	0.9793	0.96988	0.16275	0.95429	0.92045	0.092	0.95425	0.89325	
chr13	112768173	112768248	5	0.01528	0.9296	0.86997	0.0518	0.03793	0.86524	0.0739	0.9508	0.8736	
chr13	113067551	113067671	7	0.95822	0.9623	0.94452	0.93971	0.96007	0.97186	0.90857	0.977	0.95514	
chr13	113068922	113069016	8	0.94818	0.9626	0.97038	0.95913	0.95667	0.96225	0.92256	0.97362	0.95837	
chr13	113069069	113069189	7	0.96422	0.9681	0.96352	0.92086	0.96336	0.97203	0.9075	0.99114	0.91457	
chr13	113069120	113069189	5	0.96497	0.979	0.96177	0.9528	0.97237	0.9826	0.9298	0.9876	0.9304	
chr13	113609054	113609148	6	0.93229	0.84	0.08989	0.9595	0.91717	0.9755	0.96525	NaN	0.9635	
chr13	113609074	113609148	5	0.933	0.8306	0.0562	0.96	0.91623	0.9756	0.9702	NaN	0.9634	
chr13	113727631	113727742	7	0.95414	0.9856	0.95567	0.97543	0.94625	0.96681	0.94479	0.984	1	
chr13	114070816	114070843	4	0.97306	1	0.95387	0.97	0.96017	0.96465	1	0.92525	1	
chr13	114113800	114113854	5	0.97323	0.98	0.9827	0.9928	0.9787	0.97336	0.944	0.9746	0.9554	
chr13	114125797	114125818	4	0.96739	0.985	0.97317	0.96225	0.97342	0.97985	0.979	0.963	0.98475	
chr14	20457079	20457112	4	0.02268	0.019	0.00683	0.95825	0.04383	0.96515	0.937	0.98125	0.9635	
chr14	20690183	20690218	5	0.93106	0.9554	0.92977	0.9462	0.91917	0.96672	0.9365	0.987	0.9788	
chr14	21499540	21499552	2	0.97236	0.973	0.97525	0.9795	0.98228	0.9744	0.95375	0.966	0.8025	
chr14	22529340	22529401	4	0.96575	0.9685	0.96375	0.9415	0.95242	0.97815	0.926	0.98175	0.0505	
chr14	22547267	22547387	4	0.83343	0.8843	0.93	0.90175	0.82571	0.93815	0.82475	0.961	0.03975	
chr14	23090077	23090087	2	0.91407	0.93	0.958	0.9535	0.9505	0.9764	0.93975	0.991	0.871	
chr14	23115738	23115776	4	0.95279	NaN	0.04521	0.953	0.93463	0.9677	0.85813	1	0.9725	
chr14	23117700	23117840	6	0.95143	NaN	0.11063	0.96333	0.928	0.97227	0.88942	0.96267	0.9655	

FIG. 6 **(Continued)**

chr14	23329155	23329174	5	1	0.978	0.94072	0.97197	0.9818	0.9666		1	0.9414	0.9554	0.933	0.9307	0.95187		
chr14	24286609	24286617	2	1	0.9167	0.92083	0.91273	1	NaN	0.96875	0.8968	0.786	0.7365	0.874	0.72667			
chr14	26850482	26850530	6	0.95833	0.9733	0.96774	0.97943	0.98883	0.9815	0.97125	0.9691	0.9388	0.9749	0.99442	0.95478			
chr14	26850511	26850530	5	0.95	0.9709	0.98373	0.98052	1	0.9778	0.9726	0.9629	0.96	0.98	1	0.949			
chr14	31899550	31899585	3	0.98333	0.9557	0.95808	0.9632	0.957	0.8623	0.9535	0.949	0.8603	0.892	0.8225	0.97972			
chr14	37451962	37452018	5	0.9866	0.9889	0.9646	0.90084	NaN	1	0.9333	0.9817	1	0.9579	0.9279	0.95627			
chr14	39154678	39154813	5	0.9336	0.9688	0.94755	0.94196	0.9698	0.9832	0.9299	0.9283	0.938	0.9504	0.9579	0.91847			
chr14	44987102	44987192	6	0.9625	0.9834	0.96329	0.94887	0.95633	0.9578	0.94675	0.5044	0.9535	0.9425	0.949	0.97775			
chr14	46727591	46727623	5	0.9862	0.9845	0.98205	0.94508	NaN	0.9704	0.9641	0.897	0.9816	0.9583	0.8902	0.96073			
chr14	49881689	49882105	5	0.9586	0.9721	0.9756	0.94414	NaN	0.9288	0.9913	0.9323	0.9708	0.9656	0.919	0.9529			
chr14	53038816	53038842	2	0.977	0.8883	0.33008	0.9656	0.924	0.837	0.9635	NaN	0.9445	0.8135	0.89625	0.97117			
chr14	57403052	57403107	4	0.97475	0.9768	0.95644	0.95605	0.822	0.858	0.95488	0.948	0.3695	0.8574	0.93425	0.96021			
chr14	61225474	61225500	2	0.903	0.9482	0.97325	0.3445	0.9445	0.8645	0.8015	0.9478	0.742	0.8983	0.829	0.81183			
chr14	64422990	64423014	2	0.9475	0.9583	0.90887	0.949	0.8285	0.2255	0.976	0.8873	0.32	0.638	0.91875	0.97558			
chr14	64655046	64655147	5	0.9762	0.9794	0.93695	0.00484	0.9448	0.9562	0.3206	0.9254	0.9514	0.9432	0.8973	0.00587			
chr14	65317591	65317632	5	NaN	0.9809	0.95565	0.94924	0.9858	0.9568	0.9265	0.9179	0.9668	0.9315	0.9443	0.96185			
chr14	68548269	68548517	8	0.97	0.9718	0.97412	0.95203	0.95475	0.9731	0.98419	0.9524	0.9593	0.9421	0.94869	0.95196			
chr14	68582480	68582524	2	0.911	0.9912	0.95	0.9624	0.4425	0.5695	0.98075	0.9633	0.8855	0.9453	0.8455	0.9295			
chr14	68728984	68729057	4	0.95125	0.7394	0.92569	0.9328	0.538	NaN	0.93288	0.9128	0.6685	0.6638	0.91838	0.95788			
chr14	68951165	68951223	3	0.20367	0.9522	0.88092	0.00513	0.89933	0.9133	0.145	0.8887	0.8283	0.9382	0.86483	0.00461			
chr14	73414675	73414732	5	0.97	0.9768	0.97765	0.95544	0.9668	0.982	0.9442	0.9849	0.9434	0.9652	0.9305	0.94873			
chr14	73762990	73763125	2	0.896	0.9803	0.86513	0.9249	0.893	0.8885	0.935	0.3668	0.2765	0.2948	0.93875	0.97125			
chr14	74608064	74608083	5	0.96	0.9743	0.97442	0.96816	0.9666	0.92	1	0.9735	0.8936	0.9487	0.9778	0.96431			
chr14	75180594	75180667	5	0.9374	0.9753	0.9589	0.0179	0.9826	0.9496	0.3059	0.9481	0.9198	0.9194	0.9092	0.09787			
chr14	75440119	75440174	4	0.956	0.9719	0.9665	0.9536	0.952	0.9365	0.94912	0.9215	0.9108	0.9406	0.94212	0.95829			
chr14	75440220	75440315	6	0.97583	0.9623	0.96296	0.9463	0.93867	0.9122	0.97392	0.9393	0.8695	0.9118	0.91242	0.96231			
chr14	75525128	75525152	3	0.95067	0.9749	0.93092	0.9686	0.307	0.7997	0.9835	0.8272	0.263	0.542	0.907	0.96511			
chr14	77025768	77025799	5	0.9756	0.9655	0.97435	0.9674	0.925	0.9704	0.9775	0.9246	0.9618	0.9638	0.9552	0.96887			
chr14	77025780	77025884	14	0.97621	0.9723	0.97605	0.95513	0.94086	0.9581	0.97182	0.9451	0.9684	0.97	0.95543	0.96151			
chr14	77025806	77025919	11	0.982	0.9767	0.97161	0.95493	0.946	0.9465	0.96641	0.9476	0.9651	0.9688	0.95436	0.96091			

FIG. 6 **(Continued)**

chr14	23329155	23329174	5	0.96331	0.9022	0.97193	NaN	0.95691	0.96597	0.8579	0.9826	0.8648	
chr14	24286609	24286617	2	0.96086	NaN	0.94108	0.9665	0.87842	0.79	0.86125	NaN	1	
chr14	26850482	26850530	6	0.92499	NaN	0.95806	0.95033	0.96866	0.9902	0.91292	0.96183	NaN	
chr14	26850511	26850530	5	0.92804	NaN	0.95847	0.95	0.97109	0.99332	0.9295	0.964	NaN	
chr14	31899550	31899585	3	0.96752	0.939	0.95728	0.47467	0.95989	0.1538	0.57133	0.95167	0.90833	
chr14	37451962	37452018	5	0.94117	0.98	0.95516	0.9948	0.94837	0.97532	0.8999	0.9888	0.956	
chr14	39154678	39154813	5	0.94257	0.0764	0.00818	0.9366	0.90187	0.98072	0.936	0.958	0.9618	
chr14	44987102	44987192	6	0.95802	0.9613	0.96275	0.848	0.96353	0.9328	0.23567	0.97883	0.98017	
chr14	46727591	46727623	5	0.94913	0.9734	0.94997	0.9588	0.9471	0.96556	0.9631	0.941	0.9924	
chr14	49881689	49882105	5	0.97614	0.0494	0.96013	0.9632	0.95821	0.97652	0.9622	0.9544	0.9846	
chr14	53038816	53038842	2	0.96393	0.975	0.938	0.9845	0.95392	0.9662	0.96725	0.991	0.9865	
chr14	57403052	57403107	4	0.95854	0.9248	0.92875	0.93925	0.94383	0.9649	0.9355	0.98175	0.929	
chr14	61225474	61225500	2	0.83257	0.963	0.937	0.882	0.95175	0.9649	0.80975	0.9825	0.8005	
chr14	64422990	64423014	2	0.96571	0.947	0.956	0.7855	0.93033	0.9685	0.29525	0.9515	0.8095	
chr14	64655046	64655147	5	0.02762	0.8162	0.0889	0.9568	0.04317	0.95344	0.8689	0.9166	0.9806	
chr14	65317591	65317632	5	0.9678	0.9858	0.9385	0.108	0.9601	0.94435	0.2371	0.995	0.9834	
chr14	68548269	68548517	8	0.93845	0.9791	0.97387	0.96362	0.97585	0.9754	0.92738	0.96813	0.9755	
chr14	68582480	68582524	2	0.96371	0.8125	0.951	0.8765	0.96125	0.9755	0.846	1	0.7915	
chr14	68728984	68729057	4	0.95296	0.9318	0.95346	0.92325	0.96329	0.96925	0.51475	0.95275	0.326	
chr14	68951165	68951223	3	0.01152	0.416	0.01856	0.86333	0.01917	0.87393	0.63617	0.86433	0.856	
chr14	73414675	73414732	5	0.94606	0.953	0.96867	0.1408	0.95797	0.84314	0.0966	0.9506	0.9366	
chr14	73762990	73763125	2	0.975	0.8585	0.96292	0.449	0.94308	0.9361	0.227	0.9915	0.9565	
chr14	74608064	74608083	5	0.94942	0.95	0.95287	0.86	0.97627	0.97641	0.8536	0.974	0.927	
chr14	75180594	75180667	5	0.09844	0.3464	0.0607	0.9074	0.08415	0.97632	0.8563	0.9716	0.9642	
chr14	75440119	75440174	4	0.94086	0.938	0.95513	0.083	0.94879	0.9188	0.115	0.99325	0.937	
chr14	75440220	75440315	6	0.96205	0.9607	0.96903	0.124	0.96939	0.91277	0.17975	0.976	0.94317	
chr14	75525128	75525152	3	0.97405	0.9763	0.96533	0.776	0.96189	0.95973	0.13983	0.976	NaN	
chr14	77025768	77025799	5	0.95537	0.9654	0.97523	0.9734	0.97057	0.97332	0.9733	0.9918	0.9786	
chr14	77025780	77025884	14	0.95846	0.9598	0.97102	0.97143	0.969	0.97173	0.96804	0.98471	0.97443	
chr14	77025806	77025919	11	0.9583	0.9647	0.96674	0.97473	0.96694	0.96785	0.96568	0.97891	0.97491	

FIG. 6 **(Continued)**

chr14	77026045	77026111	5	0.987	0.9707	0.96945	0.9456	0.9146	0.91	0.9676	0.9603	0.9558	0.9755	0.9695	0.9812
chr14	77026123	77026191	8	0.97612	0.9752	0.96666	0.9564	0.9295	0.976	0.96113	0.9484	0.9618	0.9738	0.95462	0.95913
chr14	77026570	77026623	8	0.96387	0.959	0.95756	0.9517	0.82525	0.9319	0.95025	0.8936	0.8924	0.9687	0.9695	0.96129
chr14	77026576	77026623	6	0.9585	0.961	0.95717	0.95243	0.82533	0.9345	0.953	0.8978	0.8985	0.9713	0.97525	0.96164
chr14	77026582	77026623	5	0.9628	0.9655	0.95985	0.95556	0.8254	0.9316	0.9557	0.8947	0.9	0.9769	0.9774	0.96233
chr14	77050913	77050930	2	0.9285	0.928	0.9595	0.8177	1	0.969	0.9295	0.9603	1	0.97	0.902	0.6334
chr14	77825937	77826021	4	0.9515	0.976	0.97131	0.9576	0.95975	0.9393	0.9585	0.9484	0.9183	0.9251	0.1485	0.96583
chr14	77825965	77826021	3	0.94467	0.979	0.97692	0.95207	0.959	0.931	0.96417	0.9508	0.9127	0.9278	0.0775	0.96867
chr14	77826384	77826415	3	0.96567	0.9743	0.95283	0.97567	0.952	0.9543	0.96283	0.9605	0.9563	0.9258	0.1255	0.96906
chr14	80626319	80626397	9	0.97778	0.9798	0.97486	0.95908	NaN	1	0.977	0.9963	0.9613	0.9868	0.949	0.96255
chr14	90003726	90003780	3	0.94167	0.8683	0.95292	0.92193	0.26867	0.2283	0.94733	0.93	0.4463	0.7532	0.87533	0.9515
chr14	91190017	91190075	6	0.89767	0.9714	0.98013	0.95973	0.96933	0.9833	0.9765	0.9739	0.9818	0.9538	0.96125	0.96675
chr14	91252191	91252261	3	0.87067	0.5961	0.86025	0.887	0.086	0.112	0.9	0.416	0.0167	0.099	0.861	0.95311
chr14	91333564	91333647	5	0.9558	0.9759	0.9741	0.97264	0.9738	0.9658	0.9783	0.9731	0.9786	0.972	0.953	0.96687
chr14	91408568	91408611	4	0.96775	0.0472	0.04444	0.94225	0.15825	0.1493	0.908	0	0.079	0.018	0.96912	0.96779
chr14	92005337	92005366	3	0.962	0.0602	0.18658	0.95967	0.17667	0.314	0.93317	0.915	0.553	0.7925	0.92317	0.96489
chr14	92653424	92653517	6	0.089	0.0212	0.05614	0.01498	0.28017	0.4623	0.04183	0.0748	0.6087	0.7993	0.1755	0.01011
chr14	92653427	92653489	4	0.101	0.0243	0.05563	0.01746	0.29975	0.5313	0.0485	0.0895	0.692	0.8315	0.2215	0.01225
chr14	92746101	92746143	5	0.9182	0.9709	0.9661	0.94348	0.919	0.9198	0.9754	0.9573	0.961	0.9533	0.92	0.967
chr14	93007720	93007776	2	0.964	0.9728	0.97137	0.1733	0.9005	0.908	0.34725	0.8953	0.914	0.9083	0.83425	0.72108
chr14	93030938	93030964	3	0.98933	0.982	0.96733	0.22393	0.92867	0.984	0.32067	0.9445	0.9573	0.9822	0.91567	0.7375
chr14	93030955	93030964	2	1	0.9855	0.97362	0.155	0.9165	0.9875	0.27675	0.947	0.9495	0.9873	0.9205	0.66392
chr14	93084182	93084201	2	0.9385	0.9723	0.9565	0.197	0.976	0.9795	0.25075	0.9658	0.9565	0.975	0.909	0.73225
chr14	93190431	93190470	4	0.9365	0.974	0.97194	0.934	0.98375	0.939	0.9645	0.9645	0.9615	0.9691	0.939	0.96221
chr14	93804372	93804430	5	0.9256	0.9875	0.96405	0.9554	0.964	0.9508	0.9899	0.956	0.9916	0.9325	0.9485	0.97227
chr14	95090640	95090793	5	0.9378	1	0.94425	0.88124	0.9754	0.9792	0.918	0.9813	0.9596	0.9536	0.9583	0.8832
chr14	95090643	95090793	4	0.94725	1	0.93581	0.87485	0.9785	0.9808	0.92188	0.9838	0.9495	0.9686	0.95675	0.89533
chr14	97978118	97978178	5	0.8792	0.0268	0.1368	0.85292	0.0744	0.0296	0.9353	0.762	0.0436	0.138	0.8946	0.9017
chr14	99230465	99230508	4	0.9135	0.0063	0.01588	0.8512	0.03375	0.0045	0.80325	0	0.013	0.0033	0.856	0.88279
chr14	100069550	100069560	2	0.7915	0.0055	0.0695	0.2055	0	0.06	0.09025	0.253	0.0275	0.152	0.843	0.74458

***FIG. 6* (Continued)**

SUBSTITUTE SHEET (RULE 26)

chr14	77026045	77026111	5	0.966	0.9518	0.9747	0.9594	0.95389	0.96728	0.9661	0.9836	0.9394	
chr14	77026123	77026191	8	0.95705	0.9686	0.96267	0.97738	0.9562	0.96805	0.95462	0.97537	0.9485	
chr14	77026570	77026623	8	0.95134	0.956	0.97733	0.9605	0.96435	0.96813	0.98106	0.95663	0.9595	
chr14	77026576	77026623	6	0.95321	0.9528	0.97667	0.9595	0.96275	0.9664	0.98142	0.9615	0.96117	
chr14	77026582	77026623	5	0.95294	0.9546	0.97683	0.9608	0.96373	0.96924	0.9836	0.9638	0.964	
chr14	77050913	77050930	2	0.90842	1	0.94917	1	0.91908	0.9903	0.91875	1	0.9275	
chr14	77825937	77826021	4	0.9695	0.9595	0.96029	0.9655	0.96242	0.9702	0.87625	0.966	0.9465	
chr14	77825965	77826021	3	0.97148	0.9577	0.96272	0.961	0.95983	0.9722	0.87467	0.96967	0.94667	
chr14	77826384	77826415	3	0.96381	0.9833	0.96067	0.96533	0.96089	0.97313	0.94783	0.98333	0.96333	
chr14	80626319	80626397	9	0.97603	1	0.97207	0.98611	0.98543	0.97822	0.96472	0.97511	0.96733	
chr14	90003726	90003780	3	0.95495	0.895	0.93717	0.91233	0.95344	0.98033	0.781	0.98	0.39533	
chr14	91190017	91190075	6	0.94221	0.9743	0.97806	0.93533	0.97272	0.99042	0.98608	0.96117	0.976	
chr14	91252191	91252261	3	0.94467	0.9123	0.93394	0.70167	0.95178	0.949	0.3415	0.97067	0.136	
chr14	91333564	91333647	5	0.9564	0.9698	0.97687	0.9722	0.97967	0.97344	0.3771	0.9782	0.971	
chr14	91408568	91408611	4	0.96671	0.9383	0.93225	0.93725	0.94129	0.9615	0.8595	0.939	0.05925	
chr14	92005337	92005366	3	0.97071	0.9547	0.96172	0.962	0.9585	0.96253	0.95783	0.96433	0.29533	
chr14	92653424	92653517	6	0.01119	0.0092	0.03203	0.02433	0.01272	0.0909	0.4	0.68583	0.02667	
chr14	92653427	92653489	4	0.01332	0.0103	0.03421	0.027	0.01458	0.09655	0.43513	0.7075	0.0245	
chr14	92746101	92746143	5	0.95337	0.056	0.96867	0.99	0.96727	0.97408	0.968	0.977	0.9666	
chr14	93007720	93007776	2	0.70993	0.915	0.92633	0.741	0.76442	0.9522	0.68875	0.954	0.9505	
chr14	93030938	93030964	3	0.67929	0.717	0.89289	0.93667	0.84517	0.962	0.96633	0.956	0.95033	
chr14	93030955	93030964	2	0.62343	0.7345	0.90475	0.92	0.84192	0.9578	0.96825	0.9495	0.973	
chr14	93084182	93084201	2	0.72071	0.838	0.85217	0.992	0.77542	0.9741	0.9525	0.9465	0.963	
chr14	93190431	93190470	4	0.96768	0.0493	0.94971	0.91425	0.94296	0.9593	0.94987	0.95775	0.97575	
chr14	93804372	93804430	5	0.95339	0.9536	0.9677	0.9582	0.96723	0.97684	0.9313	0.9568	0.9454	
chr14	95090640	95090793	5	0.89534	0.0536	0.02777	0.9828	0.83311	0.97052	0.8974	0.9648	0.9796	
chr14	95090643	95090793	4	0.89925	0.067	0.02971	0.9875	0.85456	0.96725	0.89538	0.956	0.9835	
chr14	97978118	97978178	5	0.87411	0.7598	0.87973	0.9414	0.88247	0.9464	0.8764	0.9702	0.207	
chr14	99230465	99230508	4	0.88686	0.868	0.8735	0.8915	0.85454	0.9326	0.793	0.927	0.00425	
chr14	100069550	100069560	2	0.69236	0.601	0.76017	NaN	0.7455	0.1093	0.156	0.0765	0.034	

FIG. 6 **(Continued)**

chr14	100070527	100070603	5	0.9744	0.0166	0.04763	0.95576	0.0384	0.0856	0.7085	0.0308	0.0238	0.1874	0.8998	0.9798
chr14	100144254	100144318	5	0.966	0.9711	0.96995	0.95784	0.924	0.9204	0.9704	0.932	0.9262	0.9547	0.9708	0.95367
chr14	100337030	100337096	5	0.9582	0.9613	0.95345	0.95188	0.3064	0.2418	0.9735	0.9494	0.6324	0.7937	0.9598	0.9661
chr14	100337075	100337096	4	0.963	0.9598	0.95419	0.95305	0.3115	0.195	0.9695	0.9563	0.618	0.7706	0.96337	0.96775
chr14	100699813	100699853	5	0.9566	0.9739	0.95765	0.94144	0.9344	0.9622	0.9322	0.9702	0.9482	0.9432	0.9696	0.93629
chr14	101820415	101820422	2	0.9525	0.0142	0.068	0.7618	0.006	0	0.22575	0	0	0	0.91725	0.86408
chr14	102210571	102210660	6	0.994	0.9578	0.94888	0.8954	0.99517	0.9827	0.89325	0.9378	0.9728	0.951	0.95033	0.87222
chr14	102210597	102210660	5	0.9928	0.9573	0.9442	0.89352	0.9942	0.9792	0.8806	0.9412	0.9832	0.9454	0.9433	0.8655
chr14	102210883	102210981	5	0.975	0.9639	0.95765	0.88836	0.9632	0.9618	0.8518	0.9577	0.965	0.976	0.9517	0.9092
chr14	102220056	102220082	3	0.96467	0.9612	0.976	0.92247	0.48167	0.8397	0.97733	0.9663	0.7623	0.9622	0.9395	0.95867
chr14	102220149	102220175	3	0.98733	0.9251	0.958	0.9424	0.33167	0.7267	0.917	0.9483	0.5797	0.8955	0.9575	0.97533
chr14	102287978	102288026	6	1	0.9942	0.97151	0.95398	0.96733	0.9492	1	0.8878	0.9882	0.9419	0.94675	0.97043
chr14	102708545	102708680	5	0.9668	0.9851	0.9817	0.9702	0.9826	0.9714	0.9559	0.9713	0.9668	0.9685	0.9662	0.97197
chr14	102734504	102734595	5	0.9636	0.9795	0.9806	0.96788	0.9676	0.9782	0.9611	0.9562	0.9702	0.97	0.9337	0.96793
chr14	104923503	104923579	5	0.9508	0.9786	0.95735	0.9448	0.9072	0.9502	0.9344	0.92	0.9304	0.8668	0.8934	0.96257
chr14	105452227	105452354	3	0.91733	0.9627	0.9805	0.9576	0.978	0.9667	0.96467	0.9647	0.9933	0.9413	0.23667	0.96817
chr15	24594209	24594257	6	0.95383	0.9601	0.9595	0.94357	NaN	0.9582	0.9185	0.9767	0.9563	0.9087	0.96392	0.97083
chr15	24795469	24795487	3	0.778	0.9297	0.94083	0.85206	NaN	NaN	0.97217	0.9067	NaN	1	0.88867	0.99047
chr15	28137470	28137486	3	0.98033	0.8966	0.954	0.97747	0.43667	0.1343	0.96533	0.9652	0.7507	0.9705	0.9505	0.97717
chr15	31348342	31348369	4	0.976	0.7648	0.27075	0.94405	0.921	0.6948	0.95237	0.8343	0.8835	0.8749	0.9795	0.96267
chr15	34369534	34369595	5	0.9308	0.9589	0.94555	0.92129	0.8844	0.9362	0.9286	0.9649	0.9082	0.9474	0.9722	0.97493
chr15	38686578	38686598	3	0.97767	0.3011	0.18708	0.9464	0.695	0.8193	0.9425	0.9322	0.6993	0.8652	0.801	0.96106
chr15	39801588	39801787	6	0.9615	0.9715	0.97413	0.96407	0.94517	0.9378	0.96142	0.9626	0.9243	0.9385	0.93442	0.963
chr15	39801645	39801787	5	0.9572	0.9715	0.97225	0.96992	0.9502	0.934	0.9688	0.9638	0.9234	0.948	0.9473	0.9621
chr15	40103576	40103638	8	0.97513	0.9754	0.96372	0.9162	0.9395	0.9621	0.95181	0.956	0.9519	0.9687	0.93937	0.92873
chr15	40103588	40103624	5	0.9766	0.977	0.962	0.91448	0.936	0.9772	0.9564	0.9578	0.9534	0.9729	0.9448	0.93317
chr15	40559322	40559354	3	0.872	0.9778	0.95683	0.9638	1	0.9603	0.94333	0.9473	0.9827	0.985	0.15967	0.95228
chr15	42183168	42183179	2	0.896	0.9933	0.94837	0.15133	0.9635	0.845	NaN	0.8963	0.955	0.9615	0.90475	0.23067
chr15	42210723	42210956	4	0.9685	0.9692	0.94288	0.8768	0.977	0.977	0.934	0.9696	0.9863	0.952	0.90825	0.94121
chr15	44521868	44521934	7	0.99429	0.9695	0.96906	0.98523	0.95729	0.9489	0.96914	0.9669	0.9743	0.9901	0.91486	0.97792

***FIG. 6* (Continued)**

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chr14	100070527	100070603	5	0.9634	0.9608	0.96207	0.9396	0.95147	0.96648	0.9128	0.9676	0.0208
chr14	100144254	100144318	5	0.96486	0.1146	0.95147	0.9176	0.9641	0.97216	0.8887	0.9734	0.9412
chr14	100337030	100337096	5	0.96449	0.9744	0.9731	0.7164	0.94257	0.948	0.2232	0.974	0.5888
chr14	100337075	100337096	4	0.96004	0.968	0.97075	0.66475	0.93542	0.9482	0.21725	0.976	0.5635
chr14	100699813	100699853	5	0.93309	0.9028	0.91585	0.9548	0.93837	0.97067	0.9069	0.978	0.952
chr14	101820415	101820422	2	0.87421	0.9115	0.94558	0.011	0.88825	0.401	0.10125	0.9655	0
chr14	102210571	102210660	6	0.89198	0.0778	0.00472	0.98	0.82336	0.95723	0.96233	0.948	0.97133
chr14	102210597	102210660	5	0.88817	0.0744	0.00503	0.9844	0.8251	0.95616	0.9618	0.9408	0.9656
chr14	102210883	102210981	5	0.91206	0.4508	0.04003	0.9658	0.9139	0.93904	0.9415	0.9192	0.9394
chr14	102220056	102220082	3	0.95438	0.958	0.95817	NaN	0.95822	0.5544	0.112	0.93433	0.226
chr14	102220149	102220175	3	0.96419	0.9563	0.95006	0	0.95706	0.3846	0.06283	0.824	0.178
chr14	102287978	102288026	6	0.98338	1	0.95547	0.9625	0.96264	0.95413	0.95708	0.96033	0.9275
chr14	102708545	102708680	5	0.97403	0.9546	0.9667	NaN	0.97907	0.92164	0.1657	0.9692	0.9864
chr14	102734504	102734595	5	0.97486	0.0756	0.91523	0.9742	0.95953	0.9722	0.9567	0.976	0.9532
chr14	104923503	104923579	5	0.95023	0.9236	0.95537	0.3502	0.94347	0.03252	0.7331	0.1576	0.9442
chr14	105452227	105452354	3	0.97081	0.8513	0.97272	0.96133	0.97133	0.98	0.94367	0.97667	0.984
chr15	24594209	24594257	6	0.961	0.9605	0.95367	0.93583	0.97013	0.96696	0.9605	0.9795	1
chr15	24795469	24795487	3	0.75539	NaN	0.84088	1	0.91472	0.8686	0.94817	1	NaN
chr15	28137470	28137486	3	0.96281	0.2817	0.96789	0.96133	0.96689	0.97033	0.97867	0.97667	0.674
chr15	31348342	31348369	4	0.97446	0.9423	0.95408	0.969	0.96758	0.9719	0.97387	0.9805	0.90075
chr15	34369534	34369595	5	0.95789	0.9622	0.95683	0.0272	0.96833	0.84796	0.0477	0.956	0.951
chr15	38686578	38686598	3	0.9651	0.9633	0.93561	0.97367	0.92922	0.96247	0.93133	0.98533	0.87867
chr15	39801588	39801787	6	0.96948	0.1573	0.96981	0.96167	0.96142	0.97873	0.88933	0.98483	0.95883
chr15	39801645	39801787	5	0.96849	0.1538	0.97307	0.9682	0.9622	0.97856	0.9296	0.984	0.963
chr15	40103576	40103638	8	0.91845	0.9648	0.96242	0.87738	0.94819	0.96733	0.93275	0.97137	0.9445
chr15	40103588	40103624	5	0.92903	0.97	0.96197	0.8752	0.94873	0.96076	0.9257	0.9792	0.9386
chr15	40559322	40559354	3	0.97295	0.9647	0.9695	1	0.97783	0.97627	0.925	0.96267	0.974
chr15	42183168	42183179	2	0.5575	NaN	0.68942	0.959	0.4272	0.9684	0.9455	0.987	0.9475
chr15	42210723	42210956	4	0.92682	NaN	0.00369	0.94075	0.87008	0.9797	0.91613	0.96825	0.9685
chr15	44521868	44521934	7	0.96705	0.9759	0.98281	0.99071	0.96447	0.98863	0.97314	0.97529	0.978

FIG. 6 **(Continued)**

chr15	44664750	44664879	5	0.9734	0.5915	0.8914	0.94468	0.221	0.7666	0.9676	0.9025	0.1666	0.5097	0.9502	0.9639
chr15	45069410	45069519	6	0.93383	0.9595	0.96342	0.92683	NaN	0.9743	0.97133	0.9699	0.9307	0.9527	0.91358	0.96022
chr15	45069428	45069519	5	0.936	0.9612	0.9669	0.93511	NaN	0.9692	0.969	0.9694	0.9168	0.9459	0.9195	0.96163
chr15	57281494	57281568	5	0.9696	0.944	0.9725	0.94608	0.9478	0.9698	0.9115	0.9612	0.865	0.9528	0.9303	0.97001
chr15	57284405	57284491	6	0.9035	0.9551	0.86771	0.01621	0.95767	0.9342	0.15617	0.7	0.9478	0.9348	0.92217	0.02867
chr15	57284446	57284491	5	0.9176	0.9515	0.86345	0.0156	0.9614	0.9262	0.151	0.6769	0.946	0.932	0.9246	0.02827
chr15	58583728	58583793	2	0.9595	0.981	0.98575	0.02925	0.9535	0.949	0.20975	0.9785	0.9765	0.9818	0.932	0.0335
chr15	59149334	59149347	2	NaN	0.9048	0.93988	0.2736	0.969	0.9655	0.7695	0.9738	0.9665	0.9348	0.97925	0.78083
chr15	60589481	60589542	4	0.94425	0.0298	0.0889	0.94935	0.1425	0.0883	0.88475	0.0133	0	0.043	0.95887	0.96158
chr15	62897314	62897365	5	0.9938	0.9522	0.95795	0.9518	0.924	0.9602	0.9807	0.9403	0.9712	0.9223	0.9468	0.97253
chr15	63449016	63449083	5	0.9656	0.9807	0.95365	0.04745	0.893	0.955	0.0999	0.9755	0.9514	0.9788	0.9684	0.00577
chr15	65127283	65127390	9	0.99378	0.9874	0.98073	0.96927	NaN	0.9589	0.97506	0.9583	0.9737	0.9631	0.96622	0.97148
chr15	65127312	65127351	5	1	0.9833	0.9862	0.96848	NaN	0.9486	0.9734	0.9534	0.9834	0.9626	1	0.97883
chr15	65919595	65919680	5	0.9798	0.9637	0.95255	0.92504	0.9614	0.9818	0.9532	0.9535	0.9666	0.956	0.9261	0.95047
chr15	67088435	67088605	7	0.95429	0.9627	0.91357	0.94046	0.96114	0.9359	0.8615	0.0514	0.829	0.6764	0.91057	0.97376
chr15	67088505	67088605	5	0.961	0.9681	0.92035	0.95132	0.9616	0.9102	0.8739	0.048	0.7966	0.6886	0.9146	0.97537
chr15	68182661	68182740	5	0.9832	0.9783	0.95205	0.94576	0.9752	0.958	0.9676	0.9501	0.9804	0.9614	0.9337	0.96257
chr15	68237104	68237144	5	0.9818	0.9693	0.9882	0.97804	0.9742	0.9568	0.9641	0.9677	0.9466	0.9624	1	0.96823
chr15	69451243	69451319	5	0.9448	0.9819	0.9616	0.9372	0.9612	0.9602	0.9455	0.9667	0.978	0.9784	0.9734	0.9598
chr15	69714546	69714568	4	0.92075	0.0263	0.01156	0.92745	0	0	0.81662	0	0	0	0.90363	0.92854
chr15	74462538	74462597	5	0.9512	0.9612	0.9554	0.96048	0.9202	0.9504	0.9669	0.9318	0.9586	0.9284	0.9592	0.96063
chr15	75935931	75935990	7	0.98857	0.9766	0.99107	0.96646	0.96771	0.978	0.98379	0.9626	0.972	0.9831	0.94979	0.97457
chr15	76169627	76169702	2	0.9275	0.9632	0.95175	0.8194	0.904	0.852	0.2715	0.9305	0.8185	0.8288	0.87925	0.9385
chr15	78021678	78021874	4	0.9925	0.9736	0.94994	0.955	1	0.9423	0.97437	0.9434	0.9138	0.9725	0.97537	0.97283
chr15	78943448	78943527	5	0.9222	0.9733	0.97295	0.9418	0.9676	0.9088	0.9547	0.9519	0.856	0.9432	0.8959	0.96783
chr15	81313171	81313316	6	0.9505	0.9599	0.92733	0.01468	0.88683	0.9042	0.1415	0.94	0.9103	0.9373	0.90242	0.0157
chr15	82170136	82170185	5	0.933	0.9728	0.9648	0.92456	0.9798	0.9736	0.9749	0.9857	0.9904	0.9955	0.953	0.9613
chr15	82170174	82170261	5	0.938	0.9605	0.9688	0.93108	1	0.9618	0.9875	0.9714	0.9714	0.9844	0.9239	0.95394
chr15	82298014	82298291	13	0.97323	0.9898	0.96123	0.9266	0.95377	0.9662	0.95812	0.9592	0.9446	0.9385	0.93323	0.9489
chr15	82298217	82298283	7	1	0.9937	0.95871	0.92303	0.93843	0.9657	0.97043	0.9649	0.9311	0.9437	0.93771	0.94914

***FIG. 6* (Continued)**

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chr15	44664750	44664879	5	0.95157	0.9464	0.96523	0.951	0.95347	0.97252	0.7475	0.9842	0.2936	
chr15	45069410	45069519	6	0.94413	0.1412	0.95206	0.95217	0.95439	0.96765	0.93817	0.97733	0.9645	
chr15	45069428	45069519	5	0.94762	0.1324	0.95367	0.9464	0.95377	0.97106	0.9368	0.9728	0.9682	
chr15	57281494	57281568	5	0.95649	0.7498	0.8978	NaN	0.9391	0	0.0605	0.8856	0.726	
chr15	57284405	57284491	6	0.04262	0.0257	0.00719	0	0.02514	0.01517	0.09417	0.90417	0.83217	
chr15	57284446	57284491	5	0.03994	0.026	0.00713	0	0.02533	0.017	0.0898	0.9088	0.8224	
chr15	58583728	58583793	2	NaN	0.9675	0.9715	0.965	0.70758	0.9674	0.893	0.964	0.9855	
chr15	59149334	59149347	2	0.79171	0.9335	0.54408	0.912	0.8405	0.968	0.98425	0.9625	1	
chr15	60589481	60589542	4	0.9725	0.9513	0.95083	0.80475	0.94454	0.95195	0.28525	0.89775	0	
chr15	62897314	62897365	5	0.95543	0.9534	0.96307	0.932	0.94983	0.97532	0.9526	0.9624	0.9458	
chr15	63449016	63449083	5	0.01508	NaN	0.01569	0.9454	0.0278	0.97792	0.9276	0.9706	0.9474	
chr15	65127283	65127390	9	0.97742	0.9889	0.97061	0.97078	0.97506	0.97971	0.97833	0.96156	0.98133	
chr15	65127312	65127351	5	0.97249	1	0.97803	0.9474	0.9754	0.99136	0.9874	0.9564	1	
chr15	65919595	65919680	5	0.9436	0.4122	0.09457	0.9478	0.934	0.96148	0.959	0.975	0.943	
chr15	67088435	67088605	7	0.96818	0.961	0.96164	0.97371	0.95769	0.97214	0.96164	0.95214	0.96143	
chr15	67088505	67088605	5	0.97243	0.9656	0.96683	0.9794	0.95617	0.97752	0.9633	0.9476	0.9634	
chr15	68182661	68182740	5	0.95291	0.0726	0.60993	0.9564	0.9413	0.9788	0.9445	0.9872	0.9646	
chr15	68237104	68237144	5	0.96731	0.9818	0.94753	0.9854	0.96647	0.98116	0.9451	0.9156	0.98	
chr15	69451243	69451319	5	0.9534	0.078	0.84537	0.9666	0.94393	0.97494	0.9659	0.9742	0.9534	
chr15	69714546	69714568	4	0.92532	0.955	0.83021	0.06375	0.93304	0.86185	0.06113	0.98625	0.0095	
chr15	74462538	74462597	5	0.96094	0.9674	0.96623	0.744	0.93177	0.94664	0.1002	0.9526	0.9402	
chr15	75935931	75935990	7	0.96725	NaN	0.98448	0.95971	0.96813	0.96428	0.95686	0.91014	0.97314	
chr15	76169627	76169702	2	0.94286	0.9285	0.94975	0.881	0.93717	0.9782	0.78525	0.9635	0.955	
chr15	78021678	78021874	4	0.973	0.8978	0.0776	0.9845	0.94233	0.97215	0.93125	0.9535	0.96075	
chr15	78943448	78943527	5	0.955	0.9624	0.97157	0.0438	0.96953	0.889	0.0777	0.9646	0.8976	
chr15	81313171	81313316	6	0.00697	0.3227	0.2151	0.88233	0.04097	0.9629	0.87	0.98117	0.92333	
chr15	82170136	82170185	5	0.97026	NaN	0.93459	0.9634	0.93753	0.97272	0.9401	0.9834	0.9676	
chr15	82170174	82170261	5	0.97487	NaN	0.91859	0.9602	0.92645	0.9842	0.9519	1	1	
chr15	82298014	82298291	13	0.94293	0.9714	0.95201	0.93669	0.94365	0.9566	0.90646	0.96277	0.92615	
chr15	82298217	82298283	7	0.94578	0.9604	0.95371	0.91914	0.94843	0.96754	0.912	0.94557	0.91	

FIG. 6 **(Continued)**

chr15	82301102	82301259	5	0.9706	0.9581	0.9672	0.93268	0.9552	0.9408	0.9816	0.9695	0.9512	0.9577	0.8844	0.95687
chr15	82317177	82317231	5	1	0.9759	0.96732	0.95772	0.9572	NaN	0.9648	0.9696	0.9308	0.9216	0.9397	0.9739
chr15	82474781	82474891	11	0.95173	0.9877	0.96339	0.96947	0.91573	0.9398	0.97177	0.9752	0.9336	0.9393	0.93264	0.96994
chr15	82533370	82533452	5	0.9718	0.9687	0.96765	0.93788	0.9684	0.9388	0.9527	0.9494	0.9502	0.9432	0.9251	0.95373
chr15	82541747	82541990	5	0.9096	0.9835	0.96425	0.92788	0.9708	0.9272	0.978	0.9774	0.937	0.9366	0.924	0.96303
chr15	85017116	85017135	5	1	0.9761	0.96945	0.9733	1	0.9876	0.9707	0.9657	0.974	0.9724	0.9086	0.9457
chr15	85031778	85031804	2	1	0.9723	0.9335	0.9354	0.9335	0.882	0.978	0.9023	0.9145	0.9488	0.97475	0.95775
chr15	85647119	85647171	2	0.936	0.9707	0.9015	0.8666	0.863	0.89	0.8725	0.1655	0.828	0.2123	0.893	0.87992
chr15	89094444	89094484	4	0.94425	0.9673	0.91469	0.01125	0.96175	0.9708	0.197	0.942	0.979	0.9679	0.90562	0.01363
chr15	89135840	89136053	5	0.7426	0.9802	0.93515	0.03016	0.9342	0.9814	0.1655	0.9283	0.9784	0.9573	0.8673	0.028
chr15	89936970	89937069	4	0.92225	0.9105	0.94156	0.95475	0.991	0.9785	0.92663	0.1358	0.9258	0.8608	0.93838	0.96025
chr15	89937001	89937103	5	0.9092	0.8959	0.9475	0.94888	0.9842	0.9014	0.9108	0.0902	0.8882	0.804	0.8931	0.94657
chr15	90914541	90914624	6	0.98517	0.9758	0.95096	0.0076	0.959	0.9677	0.21525	0.9613	0.9533	0.9758	0.97258	0.02894
chr15	90914557	90914680	8	0.97262	0.9753	0.94837	0.01388	0.95663	0.9665	0.22525	0.962	0.9465	0.9656	0.96994	0.02677
chr15	90914588	90914771	8	0.971	0.9726	0.94534	0.0152	0.95288	0.9728	0.23663	0.9667	0.9489	0.9589	0.96556	0.02863
chr15	90914604	90914680	6	0.96867	0.9752	0.95271	0.01573	0.95533	0.9637	0.2385	0.9693	0.9427	0.9652	0.9635	0.02406
chr15	90914611	90914771	6	0.96133	0.9744	0.94696	0.0172	0.95267	0.9705	0.23658	0.9654	0.9522	0.9543	0.95758	0.02651
chr15	90914621	90914771	5	0.9576	0.975	0.94665	0.01952	0.9508	0.9768	0.2414	0.9627	0.9492	0.9518	0.9574	0.02424
chr15	90928182	90928285	5	0.8702	0.9585	0.9502	0.03772	0.9758	0.9622	0.2559	0.9545	0.9786	0.9563	0.9289	0.04723
chr15	100612174	100612309	5	0.9764	0.9829	0.9458	0.87384	0.9754	0.9884	0.9158	0.9682	0.9636	0.9666	0.9244	0.8743
chr15	101220904	101221007	7	0.96086	0.978	0.96286	0.93711	0.97129	0.954	0.93793	0.9593	0.9813	0.9725	0.924	0.93721
chr16	452654	452715	5	NaN	0.9599	0.94155	0.91916	0.9818	0.9776	0.9684	0.9508	0.9248	0.9586	0.9733	0.981
chr16	964070	964093	4	0.93175	0.723	0.91069	0.84365	0.44825	0.8993	0.90225	0.9036	0.2523	0.7221	0.82262	0.88458
chr16	964923	964950	3	0.97367	0.8091	0.95775	0.95033	0.39733	0.9617	0.98317	0.9595	0.3987	0.8355	0.9435	0.96944
chr16	1092822	1092881	5	0.9788	0.9871	0.98405	0.94684	0.984	0.9362	0.9557	1	0.9876	0.9941	0.9508	0.9588
chr16	3591008	3591027	4	0.97025	0.974	0.94919	0.0145	0.97375	0.984	0.13612	0.9623	0.9798	0.9521	0.95437	0.03163
chr16	4347165	4347338	4	0.974	0.9883	0.94494	0.00899	0.9835	0.9703	0.21813	0.9583	0.9345	0.9591	0.9215	0.06614
chr16	4399319	4399327	2	0.9165	0.9092	0.81788	0.8289	0.8855	0.1695	0.91875	0.917	0.8365	0.9545	0.9555	0.87842
chr16	4466481	4466594	6	0.9455	0.9647	0.8745	0.94883	0.9395	0.8102	0.88983	0.1588	0.808	0.2748	0.91967	0.96617
chr16	4466486	4466594	5	0.9442	0.9631	0.8771	0.94264	0.9488	0.7928	0.885	0.1581	0.8106	0.2917	0.926	0.96487

***FIG. 6* (Continued)**

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chr15	82301102	82301259	5	0.9522	0.9684	0.9525	0.9312	0.94673	0.9742	0.8734	0.9702	0.9498
chr15	82317177	82317231	5	0.97649	0.965	0.97403	0.9838	0.96619	0.97092	0.9369	0.9626	0.963
chr15	82474781	82474891	11	0.95849	0.9595	0.95324	0.96173	0.95711	0.98418	0.95586	0.98027	0.96918
chr15	82533370	82533452	5	0.95626	0.9478	0.95497	0.949	0.96153	0.97268	0.9085	0.9548	0.967
chr15	82541747	82541990	5	0.96888	0.9678	0.95873	0.9428	0.96997	0.97084	0.9434	0.9686	0.9692
chr15	85017116	85017135	5	0.96919	0.9818	0.97063	0.9746	0.9843	0.99032	0.9929	0.9666	0.9666
chr15	85031778	85031804	2	0.95364	0.8755	0.9685	0.985	0.96233	0.9699	0.9785	0.983	0.079
chr15	85647119	85647171	2	0.909	0.969	0.97175	0.917	0.95808	0.979	0.587	0.9565	0.9485
chr15	89094444	89094484	4	0.01091	0	0.00658	0.98	0.03196	0.9596	0.90475	0.98	0.97925
chr15	89135840	89136053	5	0.03186	0.215	0.05907	0.9078	0.05691	0.95688	0.8351	0.935	0.9474
chr15	89936970	89937069	4	0.96886	0.9333	0.95196	0.9805	0.96033	0.9756	0.95212	0.95275	0.9645
chr15	89937001	89937103	5	0.96554	0.8998	0.94853	0.9654	0.9589	0.97216	0.9209	0.9608	0.9606
chr15	90914541	90914624	6	0.03138	0.0617	0.01031	0.96733	0.02933	0.98077	0.92608	0.96417	0.975
chr15	90914557	90914680	8	0.0248	0.05	0.00988	0.959	0.02781	0.97398	0.90294	0.9685	0.97438
chr15	90914588	90914771	8	0.02676	NaN	0.00942	0.95875	0.0336	0.97185	0.90037	0.97025	0.97925
chr15	90914604	90914680	6	0.02321	0.0505	0.01036	0.95967	0.02586	0.97267	0.89192	0.96817	0.9755
chr15	90914611	90914771	6	0.02298	NaN	0.00936	0.96067	0.03494	0.96927	0.88925	0.97183	0.9755
chr15	90914621	90914771	5	0.0193	NaN	0.00953	0.9612	0.03717	0.9648	0.8803	0.973	0.9742
chr15	90928182	90928285	5	0.04789	0.8276	0.1997	0.9698	0.05217	0.97264	0.8934	0.9554	0.9478
chr15	100612174	100612309	5	0.88486	0.545	0.04073	0.9854	0.79391	0.96376	0.9603	0.971	0.9766
chr15	101220904	101221007	7	0.94227	0.0887	0.83688	0.97386	0.92631	0.97211	0.93971	0.97429	0.963
chr16	452654	452715	5	0.96511	0.99	0.9412	0.9246	0.96167	0.98396	0.9385	0.9942	0.9794
chr16	964070	964093	4	0.89618	0.8938	0.86837	0.848	0.90092	0.8681	0.34362	0.9265	0.51975
chr16	964923	964950	3	0.96081	0.996	0.95411	0.977	0.96644	0.9658	0.59483	0.96133	0.579
chr16	1092822	1092881	5	0.9646	0.9526	0.9803	0.9942	0.96763	0.96284	0.9623	0.9752	0.9716
chr16	3591008	3591027	4	0.047	0.792	0.01479	0.97175	0.02558	0.9682	0.94512	0.96425	0.95075
chr16	4347165	4347338	4	0.08394	0.0155	0.00584	0.97075	0.03633	0.9766	0.901	0.9775	0.9665
chr16	4399319	4399327	2	0.915	0.894	0.97242	0.9475	0.87425	0.9814	0.97975	1	0.9285
chr16	4466481	4466594	6	0.95657	0.9772	0.94542	0.94833	0.94789	0.96443	0.944	0.96833	0.94867
chr16	4466486	4466594	5	0.95809	0.9726	0.94733	0.9482	0.94503	0.96604	0.9366	0.9754	0.945

***FIG. 6* (Continued)**

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chr16	4682367	4682452	7	0.96214	0.9667	0.92414	0.10806	0.93929	0.9231	0.19636	0.8898	0.9661	0.9639	0.92536	0.18733
chr16	4682370	4682452	6	0.95883	0.9631	0.91408	0.09287	0.93483	0.9147	0.17417	0.8748	0.9667	0.9623	0.91725	0.17272
chr16	4682404	4682452	5	0.9542	0.9643	0.90765	0.0858	0.9286	0.9082	0.1634	0.8568	0.9648	0.9628	0.9083	0.15917
chr16	10761530	10761537	2	0.9445	0.9673	0.9435	0.10458	0.9435	0.9515	0.16	0.9555	0.9495	0.9698	0.8915	0.07888
chr16	10768520	10768593	6	0.97367	0.9726	0.95442	0.953	0.99467	0.9577	0.90117	0.2279	0.9468	0.9097	0.95042	0.96503
chr16	10768554	10768593	4	0.97425	0.9707	0.94781	0.95705	1	0.9495	0.89213	0.1381	0.9408	0.885	0.93925	0.9615
chr16	10965005	10965163	6	0.94617	0.6581	0.83304	0.9346	0.0245	0	0.95567	0.8875	0.069	0.1818	0.942	0.95508
chr16	10965009	10965163	5	0.9354	0.6699	0.8468	0.93804	0.026	0	0.9584	0.8902	0.0756	0.1898	0.9365	0.9537
chr16	10965012	10965163	4	0.91925	0.6863	0.8495	0.941	0.01925	0	0.95688	0.8921	0.0768	0.1673	0.926	0.95658
chr16	11126297	11126562	3	0.86367	0.9639	0.96325	0.51337	0.723	0.3823	0.15183	0.9122	0.8887	0.9415	0.85717	0.91617
chr16	11126518	11126562	2	0.8195	0.9458	0.95713	0.27825	0.7845	0.3025	0.06775	0.886	0.8955	0.9335	0.80825	0.87825
chr16	11182557	11182576	3	0.98667	0.9834	0.97767	0.1036	0.967	0.972	0.2655	0.9718	0.98	0.9733	0.96433	0.89428
chr16	11558931	11559015	5	0.9148	0.9791	0.8963	0.94928	0.9722	0.9656	0.8861	0.0707	0.8982	0.6533	0.9037	0.94813
chr16	11635274	11635331	5	0.9494	0.9737	0.9743	0.9066	0.9508	0.9718	0.9419	0.9572	0.9624	0.9637	0.8887	0.93883
chr16	11737210	11737371	6	0.992	0.9714	0.953	0.93343	0.97083	0.916	0.93642	0.9609	0.9428	0.9468	0.94208	0.95461
chr16	11995735	11995829	4	0.95375	0.9731	0.94513	0.95395	0.954	0.953	0.91562	0.1069	0.9183	0.8583	0.927	0.96704
chr16	12297183	12297243	4	0.8975	0.9723	0.95988	0.9668	0.9255	0.9675	0.94212	0.9641	0.9648	0.9368	0.97825	0.97317
chr16	14012153	14012178	3	0.913	0.8139	0.94892	0.9268	0.653	0.7947	0.95783	0.8933	0.6993	0.8862	0.85383	0.94661
chr16	14930953	14931040	7	0.978	0.973	0.97129	0.95894	0.968	0.9351	0.97179	0.952	0.9649	0.9599	0.96607	0.96138
chr16	14930990	14931040	6	0.98283	0.9743	0.97042	0.96576	0.97267	0.9243	0.972	0.9485	0.9685	0.964	0.9725	0.96475
chr16	15129917	15130004	7	0.94771	0.9751	0.95186	0.94786	0.96843	0.9073	0.96193	0.9486	0.9423	0.9774	0.97064	0.94676
chr16	15129928	15130004	6	0.9485	0.9753	0.95125	0.9465	0.9715	0.9012	0.96242	0.9557	0.9565	0.9781	0.97267	0.95294
chr16	15607916	15607933	2	NaN	0.9623	0.95825	0.1184	0.975	0.913	0.27925	0.9343	0.951	0.9413	0.9325	0.0608
chr16	15971442	15971699	7	0.96543	0.966	0.95932	0.92797	0.96257	0.9539	0.962	0.9623	0.9491	0.9776	0.959	0.93823
chr16	15971465	15971699	6	0.96333	0.969	0.96183	0.9348	0.978	0.9708	0.96633	0.966	0.97	0.9863	0.96217	0.93735
chr16	15971594	15971699	5	0.9616	0.9718	0.96325	0.94164	0.9778	0.973	0.9676	0.9621	1	0.9907	0.9618	0.93305
chr16	15971597	15971699	4	0.952	0.9683	0.95825	0.93825	0.97225	0.9768	0.96612	0.9568	1	0.9884	0.9675	0.92757
chr16	16321047	16321079	6	0.97483	0.9907	0.98256	0.98657	1	NaN	0.95592	0.9915	0.9718	0.9649	0.97017	0.983
chr16	16357918	16357977	6	0.9655	0.9738	0.98417	0.95154	0.9785	0.9822	0.98717	0.9667	1	0.9863	0.96517	0.97497
chr16	16368779	16368841	5	0.9776	0.9557	0.9412	0.97592	0.958	0.9676	0.9531	0.9568	0.9436	0.9621	0.9514	0.9598

***FIG. 6* (Continued)**

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chr16	4682367	4682452	7	0.19633	0.9243	0.81129	0.95371	0.16219	0.96303	0.94457	0.96743	0.97771
chr16	4682370	4682452	6	0.17974	0.923	0.78869	0.946	0.15092	0.96253	0.94167	0.962	0.974
chr16	4682404	4682452	5	0.17429	0.9246	0.77367	0.938	0.13973	0.96092	0.9456	0.9568	0.9784
chr16	10761530	10761537	2	0.0472	0.821	0.78417	0.9645	0.45425	0.9712	0.941	0.974	0.952
chr16	10768520	10768593	6	0.96936	0.975	0.97183	0.98967	0.96547	0.97287	0.97408	0.95817	0.97267
chr16	10768554	10768593	4	0.97279	0.9803	0.97133	0.99525	0.96579	0.97065	0.97125	0.94675	0.96375
chr16	10965005	10965163	6	0.96152	0.9393	0.96944	0.239	0.94903	0.9012	0.08492	0.96317	0.18517
chr16	10965009	10965163	5	0.96377	0.9366	0.97037	0.269	0.9489	0.903	0.0876	0.9678	0.1842
chr16	10965012	10965163	4	0.96479	0.932	0.96883	0.28525	0.95075	0.90455	0.082	0.96375	0.1865
chr16	11126297	11126562	3	0.89781	0.965	0.94967	0.90667	0.91961	0.95873	0.79083	0.94267	0.85433
chr16	11126518	11126562	2	0.86107	0.9475	0.9405	0.885	0.89325	0.9535	0.7415	0.914	0.8575
chr16	11182557	11182576	3	0.87714	0.9507	0.97489	0.95433	0.94256	0.9694	0.576	0.985	0.974
chr16	11558931	11559015	5	0.95586	0.89	0.9338	0.902	0.9528	0.96668	0.8782	0.9872	0.9378
chr16	11635274	11635331	5	0.93734	0.0454	0.8172	0.9756	0.91903	0.97692	0.9318	0.9764	0.9678
chr16	11737210	11737371	6	0.95386	0.9442	0.93592	0.951	0.95381	0.96563	0.17708	0.95617	0.92133
chr16	11995735	11995829	4	0.96386	0.9383	0.95488	0.94325	0.96275	0.9501	0.96613	0.97775	0.977
chr16	12297183	12297243	4	0.97271	0.9395	0.96192	0.30375	0.96758	0.70255	0.55125	0.82575	0.96175
chr16	14012153	14012178	3	0.95195	0.896	0.94783	0.83767	0.93328	0.96047	0.72183	0.98267	0.27533
chr16	14930953	14931040	7	0.96904	0.9566	0.96895	0.99071	0.95636	0.97183	0.96964	0.97571	0.94829
chr16	14930990	14931040	6	0.9721	0.9592	0.97061	0.99167	0.95931	0.97543	0.96458	0.97483	0.95633
chr16	15129917	15130004	7	0.96033	0.9561	0.96683	0.95171	0.96493	0.95663	0.969	0.97114	0.96786
chr16	15129928	15130004	6	0.96352	0.9738	0.97011	0.95267	0.96569	0.95513	0.96958	0.97017	0.9665
chr16	15607916	15607933	2	0.0711	0.9425	0.965	0.9235	0.84358	0.995	0.91	0.9735	0.985
chr16	15971442	15971699	7	0.92531	0.8434	0.04694	0.96886	0.91029	0.96111	0.9535	0.97	0.983
chr16	15971465	15971699	6	0.92824	0.8418	0.05104	0.97933	0.91028	0.96007	0.95908	0.971	0.99267
chr16	15971594	15971699	5	0.93057	0.8244	0.05438	0.9886	0.9101	0.95936	0.9616	0.9746	1
chr16	15971597	15971699	4	0.93114	0.8083	0.05052	0.98575	0.91638	0.95935	0.96662	0.96825	1
chr16	16321047	16357918	6	0.96964	0.9783	0.97797	0.97633	0.97456	0.97067	0.98808	0.9805	0.97333
chr16	16357918	16357977	6	0.97629	0.9613	0.97228	0.97183	0.97257	0.96497	0.94825	0.96017	0.97533
chr16	16368779	16368841	5	0.94654	0.9716	0.95903	0.9196	0.9658	0.96148	0.9506	0.9436	0.9628

FIG. 6 **(Continued)**

chr16	18350444	18350483	5	0.9778	0.9739	0.95435	0.90976	0.9782	0.8978	0.9669	0.9351	0.8926	0.9268	0.96	0.92997
chr16	18350453	18350523	5	0.9714	0.9724	0.9635	0.91592	0.9838	0.8978	0.9624	0.9447	0.9292	0.9336	0.948	0.93287
chr16	18350800	18350907	5	0.9868	0.9771	0.94455	0.936	0.9084	0.9476	0.981	0.9283	0.8766	0.9412	0.9462	0.9609
chr16	18350896	18350954	6	0.97467	0.9691	0.95842	0.94453	0.93017	0.957	0.95375	0.9178	0.9438	0.9538	0.94725	0.96333
chr16	18374617	18374760	7	0.98071	0.9771	0.96154	0.9682	0.97457	0.9411	0.96171	0.9699	0.9509	0.9641	0.93829	0.9719
chr16	18376794	18376837	5	0.9822	0.9782	0.97835	0.97264	0.967	0.978	0.9826	0.9746	0.955	0.9678	0.9569	0.97113
chr16	18377135	18377201	6	0.977	0.9443	0.92583	0.96033	0.94633	0.9563	0.91108	0.9466	0.9575	0.956	0.98117	0.95803
chr16	18377300	18377368	5	0.9474	0.9869	0.9648	0.95964	0.9564	0.915	0.9768	0.9491	0.937	0.9433	0.965	0.97163
chr16	18379521	18379562	5	0.9752	0.9768	0.9501	0.94455	0.9604	0.9264	0.938	0.9392	0.9772	0.989	0.9804	0.95353
chr16	21621568	21621575	2	0.95	0.9665	0.9615	0.9263	0.9685	0.8905	0.9655	0.84	0.521	0.9658	0.9325	0.96458
chr16	21647353	21647423	4	0.975	0.0358	0.17256	0.89715	0.06475	0.0553	0.6665	0.0434	0.0505	0.0649	0.93712	0.89454
chr16	21911298	21911366	6	1	0.9871	0.96725	0.95953	0.94517	1	0.99358	0.9472	0.9612	0.9808	0.84925	0.96981
chr16	21911302	21911366	5	1	0.99	0.96485	0.95144	0.9454	1	0.9923	0.9419	0.9534	0.977	0.8316	0.97333
chr16	22231212	22231247	4	0.97625	0.9823	0.92925	0.9294	0.93825	0.971	0.89925	0.9736	1	0.9501	0.91762	0.93808
chr16	23444901	23445118	5	0.9162	0.9805	0.9643	0.9722	0.9602	0.9682	0.964	0.9384	0.9554	0.9558	0.8963	0.9613
chr16	27464394	27464436	3	0.95	0.8324	0.12133	0.94227	0.45667	0.0387	0.84167	0.0435	0.5183	0.0593	0.94667	0.93933
chr16	28758163	28758373	9	0.98989	0.9616	0.96026	0.95341	0.96633	0.9301	0.99472	0.967	0.9776	0.9623	0.94561	0.96191
chr16	29491785	29491924	7	0.987	0.975	0.97786	0.9576	0.97143	0.9764	0.97986	0.9524	0.9714	0.9751	0.95893	0.95971
chr16	29554176	29554242	6	1	0.9946	0.98738	0.95333	1	0.9523	0.98275	0.97	0.9607	0.9778	0.9805	0.94316
chr16	30325030	30325063	5	0.9872	0.9813	0.9498	0.93125	0.983	0.9648	0.9443	0.9082	0.9488	0.9139	0.9594	0.9487
chr16	30463096	30463108	2	0.7085	1	0.9565	0.5089	1	0.9685	0.90025	0.9148	0.9525	0.9858	0.97725	0.91117
chr16	30766833	30766876	5	0.961	0.9777	0.95065	0.95476	0.9644	0.9372	0.944	0.9332	0.953	0.9392	0.2037	0.95693
chr16	30766838	30766876	4	0.95125	0.9748	0.94769	0.94895	0.9555	0.931	0.94212	0.9284	0.952	0.9363	0.14963	0.94896
chr16	31116410	31116445	4	0.923	0.9573	0.96787	0.04025	0.9455	0.9305	0.229	0.9639	0.958	0.9715	0.93962	0.0325
chr16	46916293	46916461	6	1	0.9777	0.94808	0.94113	0.94233	0.9545	0.96467	0.9579	0.9523	0.9383	0.94767	0.96092
chr16	46916331	46916461	5	1	0.9791	0.94675	0.94204	0.9696	0.9512	0.9659	0.9598	0.9614	0.9539	0.9551	0.961
chr16	48539915	48539942	2	0.9385	0.9725	0.95625	0.78	0.894	0.907	0.38625	0.9413	0.947	0.9113	0.9425	0.85983
chr16	50081879	50081887	2	0.963	0.9213	0.215	0.9761	0.9765	0.9525	0.95625	0.8698	0.975	0.914	0.963	0.97092
chr16	50316806	50316822	2	0.9755	0.9607	0.96	0.9235	0.9205	0.9505	0.4955	0.907	0.8765	0.914	0.93575	0.95233
chr16	50708878	50708903	4	0.97425	0.5881	0.90669	0.13065	0.1475	0.282	0.17388	0.9661	0.3863	0.9549	0.94588	0.14988

***FIG. 6* (Continued)**

chr16	18350444	18350483	5	0.94786	0.9224	0.95097	0.9146	0.9484	0.9304	0.9203	0.981	0.9726
chr16	18350453	18350523	5	0.95531	0.932	0.9498	0.9338	0.9524	0.94917	0.9128	0.9708	0.9632
chr16	18350800	18350907	5	0.95769	0.9756	0.95066	0.889	0.9381	0.95132	0.8713	0.9634	0.946
chr16	18350896	18350954	6	0.95465	0.9633	0.94525	0.9455	0.94219	0.9644	0.93733	0.96533	0.95883
chr16	18374617	18374760	7	0.96082	0.9684	0.96393	0.93857	0.97469	0.97391	0.92286	0.97243	0.952
chr16	18376794	18376837	5	0.97394	0.9702	0.97907	0.9818	0.9789	0.97604	0.9646	0.978	0.9804
chr16	18377135	18377201	6	0.94524	0.9567	0.94981	0.9305	0.94475	0.93947	0.95642	0.933	0.95083
chr16	18377300	18377368	5	0.95703	0.9696	0.9662	0.986	0.97317	0.97588	0.9354	0.9592	0.9732
chr16	18379521	18379562	5	0.9566	0.9776	0.93643	0.9858	0.9515	0.95052	0.9003	0.9458	0.9466
chr16	21621568	21621575	2	0.9515	0.947	0.9745	0.983	0.95375	0.9614	0.9835	0.993	0.941
chr16	21647353	21647423	4	0.91232	0.9535	0.93033	0	0.89246	0.05635	0.00975	0.41075	0.11475
chr16	21911298	21911366	6	0.96624	0.95	0.97228	0.94717	0.9675	0.99133	0.97608	0.97733	0.98333
chr16	21911302	21911366	5	0.964	0.94	0.97127	0.9366	0.96323	0.99396	0.9846	0.9728	1
chr16	22231212	22231247	4	0.92964	0.88	0.00529	0.9895	0.87742	0.9732	0.9545	0.99525	1
chr16	23444901	23445118	5	0.97574	0.1278	0.93227	0.9708	0.96777	0.981	0.9536	0.9822	0.9738
chr16	27464394	27464436	3	0.95514	0.9557	0.94811	0.913	0.95106	0.98787	0.94783	0.97567	0.80333
chr16	28758163	28758373	9	0.9647	0.9038	0.95467	0.94389	0.96083	0.96622	0.99144	0.964	0.981
chr16	29491785	29491924	7	0.97233	0.9841	0.97364	0.95371	0.97433	0.96949	0.96007	0.97229	0.97671
chr16	29554176	29554242	6	0.97855	0.9925	0.97911	0.96733	0.97039	0.98447	0.97617	0.93433	0.98483
chr16	30325030	30325063	5	0.95371	0.9454	0.95813	0.05524	0.93222	0.01372	0.5573	0.0764	0.9312
chr16	30463096	30463108	2	0.85918	0.94	0.9745	1	0.972	0.9777	0.9665	1	0.972
chr16	30766833	30766876	5	0.96	0.939	0.95377	0.964	0.95737	0.97608	0.958	0.9764	0.9386
chr16	30766838	30766876	4	0.95625	0.9275	0.94912	0.9605	0.95458	0.9739	0.94975	0.9705	0.93225
chr16	31116445	31116410	4	0.04273	0.959	0.9381	0.96975	0.08567	0.96375	0.942	0.97025	0.96575
chr16	46916293	46916461	6	0.9639	0.9663	0.95436	NaN	0.95914	0.04888	0.44175	0.21633	0.98483
chr16	46916331	46916461	5	0.96534	0.9664	0.9545	NaN	0.96283	0.04418	0.4787	0.2156	0.9872
chr16	48539915	48539942	2	0.87936	0.923	0.94692	0.9255	0.9555	0.9604	0.87975	0.975	0.9195
chr16	50081879	50081887	2	0.98764	0.9505	0.97	0.955	0.9745	0.9802	0.9555	0.973	0.9755
chr16	50316806	50316822	2	0.93243	0.9475	0.96267	0.921	0.94858	0.9644	0.85325	0.9795	0.928
chr16	50708878	50708903	4	0.11207	0.4173	0.72046	0.9625	0.22083	0.9686	0.94675	0.96575	0.24125

FIG. 6 **(Continued)**

chr16	56888792	56888855	6	0.95883	0.9771	0.95938	0.91677	0.9285	0.9452	0.915	0.919	0.8895	0.9383	0.89425	0.93336
chr16	57003487	57003539	3	0.95433	0.9328	0.83408	0.92627	0.789	0.293	0.93167	0.8105	0.7333	NaN	0.943	0.95644
chr16	57134084	57134136	4	0.9915	0.9091	0.70931	0.9614	0.47925	0.203	0.97725	0.8463	0.9008	0.6633	0.8535	0.965
chr16	57146279	57146284	2	0.948	0.9812	0.91637	0.296	0.982	0.9855	0.4405	0.9455	0.98	0.9695	0.95225	0.706
chr16	57160145	57160216	8	0.975	0.9592	0.99162	0.98062	0.94863	NaN	0.99219	0.9426	0.9904	0.9771	0.97744	0.98229
chr16	57160151	57160223	7	0.97143	0.9491	0.99554	0.99423	0.96171	NaN	0.9945	0.9446	0.989	0.9806	1	0.97405
chr16	57424128	57424208	9	1	0.9929	0.93214	0.97078	1	0.986	0.95683	0.9673	0.9788	0.9699	0.99206	0.9737
chr16	58731190	58731249	6	0.90983	0.9632	0.97492	0.9487	0.97017	0.9508	0.96525	0.9463	0.9598	0.9672	0.9575	0.96446
chr16	60522882	60522919	6	0.96	0.9607	0.94854	0.94903	0.94733	0.9755	0.94542	0.9299	0.941	0.9286	0.914	0.95589
chr16	60522898	60522919	5	0.9626	0.9595	0.94905	0.95911	0.9608	0.9888	0.9481	0.9317	0.9586	0.9296	0.9126	0.95233
chr16	63799127	63799183	5	0.791	0.9799	0.93273	0.91508	1	0.94	0.9741	0.8999	0.943	0.9621	0.9861	0.96543
chr16	67194417	67194500	3	0.939	0.9868	0.95933	0.9578	0.92333	0.9923	0.97617	0.96	0.9647	0.9518	0.17083	0.97222
chr16	67194481	67194625	4	0.88475	0.9883	0.96437	0.94755	0.94175	0.9565	0.95637	0.9296	0.993	0.9703	0.16163	0.93771
chr16	67318949	67318962	2	0.9375	0.9605	0.988	0.9505	0.375	0.941	1	0.9873	0.889	0.9755	0.9035	0.98625
chr16	68866478	68866549	8	0.97513	0.977	0.95835	0.9701	0.98862	NaN	0.96994	0.9786	0.9676	0.9449	0.97931	0.97868
chr16	69454978	69455147	4	0.966	0.9858	0.93706	0.93285	0.987	0.9793	0.892	0.0848	0.9288	0.8664	0.95562	0.97117
chr16	69455475	69455502	2	0.95	0.9505	0.90725	0.9262	0.889	0.8345	0.8075	0.0148	0.85	0.2908	0.90525	0.97475
chr16	70785078	70785116	2	0.9055	0.9628	0.99212	0.8559	0.9785	0.9275	0.2365	0.9413	0.947	0.9613	0.8905	0.76967
chr16	70785229	70785272	2	0.9595	0.9763	0.98275	0.9749	0.949	0.9415	0.3925	0.9765	0.95	0.974	0.97525	0.96817
chr16	74969609	74969731	5	0.9882	0.9653	0.9596	0.93756	0.939	0.8848	0.9491	0.9611	0.8726	0.9324	0.9356	0.9493
chr16	75317181	75317240	3	0.129	0.9732	0.95875	0.0166	0.91933	0.9497	0.24133	0.9275	0.9347	0.9267	0.75917	0.13829
chr16	75620453	75620495	4	0.97175	0.9726	0.89387	0.93895	0.84525	0.674	0.96062	0.7875	0.6743	0.2515	0.96688	0.97133
chr16	79596087	79596121	3	0.937	0.9279	0.90192	0.94367	0.547	0.9597	0.9325	0.9642	0.3447	0.8862	0.9225	0.97967
chr16	82448958	82449001	5	0.9264	0.9696	0.96815	0.96372	0.963	0.979	0.9598	0.9786	0.9794	0.9703	0.9558	0.95937
chr16	84608684	84608768	3	0.95167	0.8821	0.73017	0.91953	0.401	0.24	0.90967	0.836	0.3147	0.4157	0.8935	0.9295
chr16	84619872	84619962	5	0.942	0.9651	0.9569	0.88819	0.9038	0.9652	0.8696	0.9484	0.893	0.9646	0.8919	0.91987
chr16	84643251	84643334	5	0.9734	0.9613	0.91105	0.0082	0.9534	0.9508	0.1758	0.9558	0.9342	0.9481	0.9024	0.0364
chr16	84656884	84656947	8	0.98175	0.9711	0.96906	0.958	0.95988	0.9491	0.969	0.9715	0.9486	0.9716	0.95056	0.97142
chr16	84656898	84656947	7	0.98357	0.9715	0.97129	0.95789	0.95686	0.9511	0.96929	0.9726	0.9493	0.9723	0.95386	0.97112
chr16	84656909	84656947	6	0.98583	0.9758	0.97558	0.95707	0.9625	0.9498	0.9675	0.9763	0.956	0.9732	0.95375	0.97058

***FIG. 6* (Continued)**

SUBSTITUTE SHEET (RULE 26)

chr16	56888792	56888855	6	0.92279	0.975	0.9715	0.07217	0.93808	0.86617	0.06608	0.91267	0.9715
chr16	57003487	57003539	3	0.93952	0.9513	0.94567	NaN	0.94344	NaN	0.08867	NaN	0.908
chr16	57134084	57134136	4	0.96557	0.9725	0.95137	0.95825	0.95742	0.9676	0.85013	0.93675	0.323
chr16	57146279	57146284	2	0.73621	0.2385	0.11125	0.924	0.79242	0.9754	1	0.9515	0.975
chr16	57160145	57160216	8	0.9596	0.9761	0.93067	0.9445	0.97171	0.979	0.97631	0.97488	0.99038
chr16	57160151	57160223	7	0.95873	0.9857	0.92481	0.96514	0.98117	0.97029	0.98314	0.97771	0.989
chr16	57424128	57424208	9	0.96917	0.9047	0.94702	NaN	0.95028	0.95927	0.95411	0.97256	NaN
chr16	58731190	58731249	6	0.94924	0.9432	0.96906	0.22283	0.96872	0.1	0.52925	0.7105	0.97283
chr16	60522882	60522919	6	0.94652	0.967	0.95433	0.9845	0.95992	0.9594	0.9605	0.96433	0.98517
chr16	60522898	60522919	5	0.95569	0.982	0.96433	0.991	0.96723	0.95688	0.9662	0.962	0.9822
chr16	63799127	63799183	5	0.96329	0.9024	0.96063	0.9244	0.9713	0.97076	0.9191	0.9866	0.9728
chr16	67194417	67194500	3	0.96386	0.938	0.96106	0.97733	0.97478	0.971	0.93983	0.978	0.99267
chr16	67194481	67194625	4	0.95099	0.938	0.93496	0.98175	0.96913	0.97645	0.95363	0.9865	0.9375
chr16	67318949	67318962	2	0.92979	1	0.96392	0.9665	0.96283	0.9611	0.9135	0.989	0.969
chr16	68866478	68866549	8	0.98557	0.954	0.96955	0.97612	0.97201	0.97595	0.95937	0.98262	0.99038
chr16	69454978	69455147	4	0.96711	0.9445	0.95396	0.95125	0.95433	0.96425	0.94312	0.97175	0.9765
chr16	69455475	69455502	2	0.95543	0.4335	0.92708	1	0.95933	0.9687	0.95525	0.941	0.9775
chr16	70785078	70785116	2	0.84021	0.8905	0.91892	0.928	0.9445	0.9715	0.74325	0.9585	0.9655
chr16	70785229	70785272	2	0.96679	0.988	0.96683	0.9725	0.97358	0.9714	0.9795	0.968	0.981
chr16	74969609	74969731	5	0.94871	0.9598	0.95877	0.86	0.95927	0.94988	0.2768	0.9772	0.934
chr16	75317181	75317240	3	0.08762	0.4037	0.43922	0.78133	0.17272	0.875	0.5385	0.90267	0.932
chr16	75620453	75620495	4	0.96589	0.887	0.96613	0.90925	0.95504	0.97025	0.71513	0.96925	0.9085
chr16	79596087	79596121	3	0.96767	0.96	0.97217	0.95767	0.96678	0.97667	0.92183	0.96367	0.67633
chr16	82448958	82449001	5	0.95714	0.9862	0.9755	0.9716	0.9708	0.97312	0.9404	0.9776	0.9618
chr16	84608684	84608768	3	0.93167	0.8653	0.95217	0.831	0.92744	0.956	0.4215	0.96867	0.78067
chr16	84619872	84619962	5	0.9249	0.758	0.90497	NaN	0.89493	0.04998	0.1274	0.0882	0.9526
chr16	84643251	84643334	5	0.04963	0.3342	0.01357	0.925	0.03217	0.90624	0.9039	0.899	0.9634
chr16	84656884	84656947	8	0.97495	0.9765	0.9705	0.18388	0.9639	0.8238	0.83062	0.97175	0.97237
chr16	84656898	84656947	7	0.97494	0.9763	0.97102	0.17986	0.96367	0.81757	0.83986	0.97286	0.97243
chr16	84656909	84656947	6	0.97431	0.979	0.97244	0.17267	0.96356	0.81143	0.83742	0.97583	0.97433

FIG. 6 **(Continued)**

chr16	84656917	84656947	5	0.983	0.9769	0.9732	0.95788	0.9664	0.9444	0.9683	0.9756	0.959	0.9721	0.9519	0.97073
chr16	85480918	85480952	4	0.98075	0.9606	0.96288	0.9471	0.96175	0.9595	0.93937	0.9483	0.9553	0.9586	0.92525	0.9555
chr16	85544193	85544255	5	0.9432	0.9716	0.91825	0.09816	0.9404	0.9306	0.2102	0.9511	0.9364	0.9438	0.9514	0.095
chr16	85544223	85544277	5	0.9436	0.9679	0.9206	0.11	0.9372	0.9432	0.2088	0.9495	0.9428	0.937	0.9654	0.10027
chr16	85782961	85783019	5	0.9736	0.9705	0.96465	0.94932	0.9766	0.9788	0.9649	0.9505	0.956	0.9627	0.9447	0.95033
chr16	85905461	85905571	6	0.9365	0.9513	0.95621	0.0432	0.92933	0.9728	0.27225	0.9797	0.9903	0.99	0.93717	0.06606
chr16	87435582	87435618	4	0.515	0.1964	0.16544	0.05855	0.7195	0.828	0.12638	0.3066	0.7425	0.5623	0.49588	0.06721
chr16	87701542	87701656	6	0.94333	0.9364	0.84679	0.93917	0.91433	0.9348	0.89883	0.9291	0.8717	0.9439	0.92367	0.95289
chr16	87701713	87701778	7	0.97714	0.9133	0.86574	0.96249	0.98414	0.9877	0.93221	0.952	0.9699	0.9686	0.96443	0.972
chr16	87701741	87701778	6	0.97333	0.9051	0.85603	0.96233	0.9815	0.9857	0.937	0.9492	0.9738	0.9736	0.967	0.96989
chr16	87729404	87729813	13	NaN	0.9633	0.95527	0.95569	0.932	0.9509	0.97288	0.9529	0.93	0.9007	0.93335	0.96349
chr16	87729437	87729668	5	0.9686	0.9682	0.95225	0.9494	0.9234	0.9302	0.9722	0.9543	0.9164	0.8859	0.9416	0.96837
chr16	87729490	87729779	10	NaN	0.9673	0.9595	0.96008	0.9394	0.9692	0.9733	0.9525	0.9297	0.9015	0.9351	0.9602
chr16	87729665	87729747	6	NaN	0.9656	0.96708	0.9675	0.95583	0.9888	0.9725	0.9609	0.9395	0.9182	0.95067	0.96269
chr16	87729694	87729747	4	NaN	0.9596	0.96656	0.9693	0.9545	0.9945	0.975	0.9553	0.9503	0.9175	0.94875	0.96388
chr16	87774615	87774698	6	0.94583	0.9358	0.91379	0.9429	0.91017	0.9538	0.96183	0.8807	0.9087	0.9104	0.94183	0.95906
chr16	87774649	87774698	5	0.9464	0.9333	0.90645	0.94196	0.903	0.9446	0.9601	0.8689	0.9032	0.906	0.9466	0.9625
chr16	87875082	87875120	3	0.96067	0.7971	0.89575	0.86673	0.315	0.124	0.934	0.93	0.5853	0.7672	0.9335	0.91717
chr16	88491781	88491817	5	0.0188	0.9688	0.97495	0.9396	0.9348	0.9294	0.937	0.8819	0.958	0.9601	0.0422	0.9507
chr16	88491797	88491817	4	0.0235	0.9642	0.97437	0.93545	0.92475	0.9118	0.93362	0.8703	0.9613	0.9553	0.03875	0.94829
chr16	88498040	88498090	4	0.11675	0.9813	0.98269	0.97085	0.96375	0.9675	0.94138	0.9566	0.9183	0.9514	0.15337	0.976
chr16	88511949	88512094	6	0.28333	0.9465	0.9725	0.9428	0.96267	0.9508	0.94125	0.9688	0.981	0.9473	0.12942	0.96919
chr16	88511976	88512094	5	0.2734	0.9431	0.96885	0.94404	0.9552	0.95	0.934	0.9668	0.9772	0.9581	0.1136	0.96597
chr16	88588749	88588843	3	0.96033	0.9417	0.91767	0.93693	NaN	0.1787	0.98083	0.9513	0.778	0.725	0.94867	0.967
chr16	88589328	88589335	2	0.962	0.9513	0.93725	0.9387	0.3555	0.2	0.95075	0.9408	0.783	0.8713	0.94275	0.94675
chr16	88589605	88589723	6	0.9715	0.9471	0.94212	0.93913	0.586	0.5287	0.94942	0.95	0.796	0.8717	0.94208	0.92875
chr16	88589611	88589651	3	0.97633	0.9551	0.94908	0.953	0.65933	0.583	0.96567	0.9647	0.8503	0.9002	0.95267	0.94028
chr16	88653767	88653816	5	0.9574	0.9697	0.94245	0.89856	0.9354	0.948	0.7786	0.0375	0.8804	0.6975	0.9539	0.90783
chr16	88689867	88689928	2	0.932	0.96	0.98325	0.4598	0.893	0.9345	0.5245	0.8748	0.9115	0.927	0.9315	0.94525
chr16	88840773	88840843	5	0.9496	0.9609	0.9328	0.81964	0.9524	0.925	0.8702	0.9629	0.9532	0.9429	0.9241	0.8798

***FIG. 6* (Continued)**

SUBSTITUTE SHEET (RULE 26)

chr16	84656917	84656947	5	0.97203	0.9788	0.97073	0.164	0.9624	0.80272	0.8338	0.9734	0.9774	
chr16	85480918	85480952	4	0.94225	0.948	0.95296	NaN	0.95929	0.00425	0.05813	0	0.94125	
chr16	85544193	85544255	5	0.11449	0.0024	0.00183	0.9448	0.0753	0.97152	0.8919	0.9768	0.9316	
chr16	85544223	85544277	5	0.11674	0	0.0023	0.9492	0.0774	0.97236	0.8925	0.9852	0.9272	
chr16	85782961	85783019	5	0.94783	0.0682	0.22043	0.9588	0.95387	0.96756	0.8917	0.9494	0.9672	
chr16	85905461	85905571	6	0.07069	0.8997	0.04981	0.93417	0.05597	0.9759	0.70858	0.975	0.963	
chr16	87435582	87435618	4	0.08086	0.0978	0.07004	0.1025	0.0845	0.01789	0.2125	0.00225	0.77775	
chr16	87701542	87701656	6	0.94614	0.9455	0.93344	NaN	0.94842	0.01181	0.21133	0.042667	0.86117	
chr16	87701713	87701778	7	0.96494	0.9744	0.96602	NaN	0.95717	0.00116	0.24829	NaN	0.96543	
chr16	87701741	87701778	6	0.96524	0.9768	0.96792	NaN	0.95939	0.00063	0.23225	NaN	0.963	
chr16	87729404	87729813	13	0.96508	0.953	0.96	0.84823	0.96585	0.96712	0.23977	0.97938	0.94177	
chr16	87729437	87729668	5	0.96354	0.9612	0.96597	0.7998	0.97293	0.96672	0.2166	0.9814	0.9398	
chr16	87729490	87729779	10	0.96647	0.9584	0.96208	0.8683	0.9665	0.96642	0.23685	0.9813	0.933	
chr16	87729665	87729747	6	0.97224	0.9595	0.96883	0.91883	0.96753	0.96607	0.25183	0.97917	0.93417	
chr16	87729694	87729747	4	0.97261	0.9705	0.96633	0.91825	0.96746	0.96825	0.24925	0.98325	0.92975	
chr16	87774615	87774698	6	0.94464	0.9612	0.94122	0.1675	0.92561	0.90413	0.15042	0.974	0.9085	
chr16	87774649	87774698	5	0.94729	0.9534	0.94113	0.1454	0.92357	0.89592	0.1384	0.9688	0.9124	
chr16	87875082	87875120	3	0.92176	0.7433	0.80867	0.12433	0.88511	0.92133	0.17317	0.95633	0.183	
chr16	88491781	88491817	5	0.95397	0.1714	0.90777	0.9666	0.94543	0.97536	0.9434	0.9792	0.9654	
chr16	88491797	88491817	4	0.94904	0.1608	0.89979	0.96175	0.94025	0.97275	0.94025	0.97625	0.9665	
chr16	88498040	88498090	4	0.97214	0.9415	0.95575	0.9415	0.95688	0.9658	0.919	0.979	0.96125	
chr16	88511949	88512094	6	0.94952	0.4597	0.94344	0.94583	0.95136	0.96257	0.86233	0.9555	0.972	
chr16	88511976	88512094	5	0.94957	0.39	0.94197	0.945	0.94933	0.96096	0.8548	0.959	0.9736	
chr16	88588749	88588843	3	0.96729	0.946	0.95478	0.92233	0.96289	0.97487	0.88533	0.96933	0.23067	
chr16	88589328	88589335	2	0.94514	0.959	0.96742	0.945	0.95542	0.9774	0.84025	0.9705	0.211	
chr16	88589605	88589723	6	0.93407	0.9397	0.94333	0.92583	0.94492	0.96417	0.82692	0.96717	0.39683	
chr16	88589611	88589651	3	0.95538	0.953	0.95889	0.96633	0.95772	0.9764	0.88083	0.966	0.42833	
chr16	88653767	88653816	5	0.91306	0.889	0.93173	0.959	0.90273	0.96696	0.8756	0.9802	0.9704	
chr16	88689867	88689928	2	0.89443	0.828	0.94142	0.8785	0.93292	0.9522	0.84975	0.9815	0.941	
chr16	88840773	88840843	5	0.84474	0.0678	0.02337	0.947	0.7362	0.96248	0.8879	0.9826	0.9528	

FIG. 6 **(Continued)**

chr16	88840973	88841022	4	0.94675	0.9793	0.94319	0.89865	0.96225	0.9333	0.92412	0.9643	0.9483	0.9409	0.938	0.91267
chr16	89279569	89279634	7	0.97586	0.9866	0.98024	0.93117	0.98143	0.9587	0.97579	0.9353	0.9541	0.9783	0.98129	0.96079
chr16	89279581	89279634	5	0.9662	0.9864	0.97233	0.9232	0.974	0.9422	0.9804	0.9485	0.9358	0.9821	0.9738	0.95287
chr16	89323656	89323666	2	0.9215	0.9545	0.95175	0.7038	0.9125	0.9335	0.315	0.8515	0.912	0.9218	0.8805	0.77458
chr16	89373573	89373594	3	0.95333	0.97	0.96175	0.8718	0.95267	0.942	0.92417	0.9713	0.9673	0.9545	0.94517	0.35217
chr16	89373614	89373635	2	0.9405	0.9678	0.93325	0.9247	0.9385	0.9365	0.94	0.9675	0.917	0.9408	0.9535	0.41275
chr16	89879619	89879697	6	0.97783	0.9715	0.98208	0.96652	0.9805	1	0.963	0.9678	0.9757	0.9468	0.97125	0.97761
chr16	89879652	89879748	8	0.97062	0.9631	0.97963	0.98469	0.973	0.9891	0.96881	0.9838	0.9774	0.9786	0.96237	0.97415
chr16	89879694	89879748	5	0.9712	0.9579	0.9793	0.98272	0.9774	0.9826	0.9717	0.9833	0.9782	0.9767	0.9642	0.9719
chr16	90133283	90133337	5	0.9338	0.9746	0.9287	0.94876	0.9	0.9262	0.9616	0.9324	0.9374	0.9568	0.9057	0.93217
chr17	1522215	1522263	6	0.9925	0.9929	0.98508	0.98727	0.97367	0.9695	0.97367	0.9944	0.9897	0.9693	0.95458	0.96201
chr17	1707058	1707163	4	0.94775	0.7628	0.89919	0.95715	0.60525	0.1645	0.923	0.7195	0.5955	0.7375	0.93512	0.95683
chr17	1707114	1707163	3	0.958	0.7578	0.89325	0.95433	0.567	0.084	0.905	0.6823	0.556	0.7302	0.94067	0.96033
chr17	1732845	1733109	5	0.972	0.958	0.944	0.9288	0.9104	0.9312	0.9102	0.9347	0.9448	0.903	0.9466	0.9554
chr17	1872437	1872466	3	0.964	0.2614	0.37233	0.97253	0.796	0.8307	0.99667	0.9455	0.746	0.95	0.9545	0.97961
chr17	1873753	1873765	2	0.9465	0.917	0.93075	0.9727	0.9355	0.9045	0.9545	0.889	0.881	0.9875	0.962	0.96917
chr17	2414704	2414730	2	0.8915	0.9775	0.96587	0.4316	0.9575	0.9635	0.34225	0.9635	0.95	0.9558	0.919	0.91167
chr17	3558155	3558388	8	0.92063	0.9635	0.95544	0.95297	0.959	0.9629	0.95431	0.9414	0.9263	0.9196	0.90013	0.96479
chr17	3558235	3558388	6	0.9085	0.9668	0.95779	0.9514	0.95183	0.956	0.94925	0.9314	0.922	0.9094	0.87667	0.96086
chr17	3558255	3558388	5	0.903	0.9685	0.96205	0.9516	0.9478	0.9562	0.9504	0.9309	0.9186	0.9118	0.8731	0.96433
chr17	3590314	3590374	5	0.954	0.964	0.9512	0.9498	0.9456	0.9262	0.9384	0.9729	0.9274	0.9269	0.9099	0.9615
chr17	3643658	3643713	3	0.94933	0.9751	0.96775	0.93573	0.68333	0.381	0.9255	0.9463	0.9303	0.9242	0.9125	0.96639
chr17	3753123	3753139	3	0.98133	0.9869	0.94742	0.9436	0.95867	0.379	0.97783	0.9407	0.8743	0.9063	0.8535	0.98117
chr17	3816892	3817051	10	0.9463	0.9681	0.86085	0.95744	0.9475	0.9438	0.94595	0.9563	0.9547	0.9522	0.91895	0.96107
chr17	3816918	3817051	9	0.94456	0.9664	0.84967	0.95429	0.94544	0.9401	0.94578	0.9532	0.9582	0.9515	0.91839	0.96243
chr17	3816957	3817051	8	0.95413	0.9651	0.86119	0.95168	0.94287	0.9389	0.94969	0.9521	0.9609	0.9554	0.921	0.96123
chr17	3816974	3817051	7	0.94757	0.9636	0.84775	0.95031	0.94414	0.9374	0.95021	0.9492	0.9553	0.954	0.91864	0.95817
chr17	3816980	3817051	6	0.955	0.9636	0.85825	0.9537	0.9545	0.9478	0.95017	0.9502	0.9548	0.9612	0.92167	0.96181
chr17	3816988	3817051	5	0.959	0.9645	0.8711	0.95584	0.9636	0.9498	0.9542	0.948	0.9514	0.9681	0.926	0.96517
chr17	4211173	4211315	5	0.9916	0.9641	0.95315	0.93228	0.9398	0.9448	0.9964	0.9396	0.9474	0.9498	0.9488	0.96457

FIG. 6 **(Continued)**

chr16	88840973	88841022	4	0.90296	0.1128	0.05254	0.9515	0.80812	0.9737	0.94175	0.9785	0.94025	
chr16	89279569	89279634	7	0.95982	0.969	0.95224	0.92671	0.96326	0.96997	0.96286	0.96929	0.974	
chr16	89279581	89279634	5	0.96897	0.9566	0.9548	0.9148	0.9641	0.982	0.948	0.9792	0.9636	
chr16	89323656	89323666	2	0.83371	0.883	0.88692	0.9815	0.90325	0.9726	0.97	0.9575	0.963	
chr16	89373573	89373594	3	0.43833	0.9447	0.94978	0.96733	0.96417	0.97487	0.957	0.966	0.94667	
chr16	89373614	89373635	2	0.50221	0.904	0.94283	0.956	0.9535	0.9657	0.97375	0.975	0.973	
chr16	89879619	89879697	6	0.96914	0.9498	0.97976	0.949	0.95046	0.9802	0.96608	0.977	0.96833	
chr16	89879652	89879748	8	0.96637	0.9606	0.97655	0.94075	0.97706	0.97127	0.98037	0.97537	0.96663	
chr16	89879694	89879748	5	0.96717	0.937	0.97553	0.9466	0.97937	0.96652	0.9723	0.969	0.9688	
chr16	90133283	90133337	5	0.94812	0.954	0.936	0.89	0.951	0.94376	0.885	0.983	0.9644	
chr17	1522215	1522263	6	0.98512	0.9778	0.95175	0.97933	0.97106	0.94347	0.94108	1	1	
chr17	1707058	1707163	4	0.94961	0.9608	0.94812	0.8375	0.95608	0.9674	0.794	0.95525	0.7845	
chr17	1707114	1707163	3	0.94652	0.9623	0.95117	0.88733	0.95956	0.96353	0.85167	0.95267	0.74367	
chr17	1732845	1733109	5	0.95391	0.92	0.92237	NaN	0.91833	0.0025	0.1583	0.0738	0.9346	
chr17	1872437	1872466	3	0.97305	0.9737	0.97817	0.97533	0.96389	0.97713	0.96333	0.97	0.694	
chr17	1873753	1873765	2	0.96271	0.9605	0.95775	0.938	0.96525	0.9638	0.90075	0.982	0.3635	
chr17	2414704	2414730	2	0.91757	0.986	0.96808	0.9675	0.97167	0.9803	0.94225	0.9815	0.9515	
chr17	3558155	3558388	8	0.95959	0.9624	0.95746	0.16475	0.95769	0.93092	0.11987	0.96975	0.94063	
chr17	3558235	3558388	6	0.95495	0.9603	0.95739	0.167	0.95678	0.93217	0.10242	0.964	0.928	
chr17	3558255	3558388	5	0.95629	0.9594	0.95523	0.1646	0.95593	0.93036	0.0985	0.9676	0.9242	
chr17	3590314	3590374	5	0.96174	0.9584	0.9628	0.1512	0.9519	0.0158	0.3501	0.0022	0.9566	
chr17	3643658	3643713	3	0.9591	0.9707	0.96383	0.93733	0.96594	0.97167	0.859	0.97533	0.92767	
chr17	3753123	3753139	3	0.97034	NaN	0.96139	1	0.969	0.97667	0.95383	1	0.82967	
chr17	3816892	3817051	10	0.96366	0.9362	0.95395	0.0607	0.95745	0.0325	0.11705	0.0306	0.9337	
chr17	3816918	3817051	9	0.96256	0.9291	0.95289	0.03044	0.95731	0.019	0.11	0.024556	0.92867	
chr17	3816957	3817051	8	0.96329	0.925	0.95294	0.03213	0.95669	0.01898	0.11612	0.019875	0.93337	
chr17	3816974	3817051	7	0.96206	0.9191	0.95069	0.02086	0.95436	0.0104	0.09964	0.012	0.93086	
chr17	3816980	3817051	6	0.96514	0.9273	0.95461	0.02217	0.95644	0.01077	0.10425	0.012	0.94567	
chr17	3816988	3817051	5	0.96529	0.935	0.9565	0.024	0.95827	0.01224	0.1126	0.012	0.938	
chr17	4211173	4211315	5	0.95143	0.9502	0.96287	0.9538	0.95933	0.96556	0.2059	0.9644	0.9722	

FIG. 6 **(Continued)**

chr17	4518350	4518417	5	0.9198	0.9573	0.94805	0.92812	0.9344	0.922	0.9241	0.8985	0.8846	0.9245	0.908	0.93537
chr17	4678601	4678612	2	0.908	0.954	0.92775	0.0522	0.86	0.866	0.08725	0.1308	0.7675	0.7363	0.85225	0.65117
chr17	4722676	4722681	2	0.9755	0.9723	0.97588	0.8843	1	1	0.2985	0.9743	0.9535	0.9658	0.9505	0.91858
chr17	4794886	4794926	5	0.9858	0.9787	0.97475	0.95944	0.9406	0.9634	0.9846	0.9593	0.9526	0.9409	0.9465	0.96587
chr17	4830455	4830550	7	0.91171	0.9572	0.95982	0.93226	0.98271	0.9819	0.96293	0.9501	0.9019	0.9596	0.90621	0.96671
chr17	4830489	4830550	5	0.9058	0.9641	0.9622	0.93369	1	0.992	0.9619	0.9571	0.9314	0.977	0.9143	0.96483
chr17	8269403	8269412	2	0.9895	0.9827	0.98087	0.8751	0.9625	0.982	0.291	0.9738	0.9695	0.98	0.94825	0.91692
chr17	9123921	9123943	3	0.898	0.9279	0.89483	0.9356	NaN	0.5647	0.98433	0.8557	0.175	NaN	0.90283	0.96067
chr17	9527102	9527174	7	0.97614	0.9908	0.98646	0.95625	0.96429	0.9524	0.96764	0.9756	0.9653	0.9819	0.95236	0.97162
chr17	10678195	10678287	5	0.9474	0.9693	0.96055	0.91348	0.964	0.9878	0.916	0.9734	0.9744	0.9601	0.9441	0.90513
chr17	10689031	10689074	5	0.9754	0.9687	0.98235	0.97908	0.9768	0.938	0.9896	0.984	0.9774	0.9721	0.9794	0.96994
chr17	16246732	16246788	5	NaN	0.9953	0.93685	0.97075	0.966	0.9652	0.9808	0.9725	0.975	0.9958	0.9818	0.94127
chr17	16968071	16968121	5	0.9494	0.9646	0.9713	0.94896	0.967	0.9658	0.9729	0.9731	0.9622	0.9681	0.9325	0.95617
chr17	16968078	16968130	5	0.9444	0.9599	0.96575	0.94676	0.9306	0.9582	0.9719	0.9652	0.948	0.9689	0.9125	0.95787
chr17	17711090	17711243	6	0.93083	0.9751	0.95337	0.94517	0.93183	0.9575	0.96317	0.9519	0.9275	0.9387	0.92733	0.95233
chr17	18180064	18180085	2	0.9705	0.9802	0.98237	0.8318	0.973	0.9645	0.42125	0.9603	0.968	0.9618	0.9515	0.96217
chr17	18931658	18931731	6	NaN	0.9732	0.95512	0.9366	0.92117	0.9428	0.97325	0.9455	0.9478	0.9613	0.96242	0.96971
chr17	18931666	18931731	5	NaN	0.9807	0.95145	0.93556	0.916	0.9314	0.9679	0.9426	0.9374	0.9746	0.9582	0.97405
chr17	19723576	19723656	9	0.93022	0.9798	0.97844	0.93529	0.94	0.9559	0.96139	0.9568	0.9333	0.9481	0.98872	0.92948
chr17	21282463	21282491	2	0.9545	0.9493	0.943	0.33525	0.868	0.904	0.207	0.9443	0.8505	0.8183	0.971	0.10407
chr17	27224732	27225140	2	0.932	0.9798	0.94962	0.3866	0.934	0.9165	0.38175	0.9328	0.882	0.8728	0.92225	0.22358
chr17	27403619	27403651	3	0.03	0.9724	0.966	0.89767	0.97233	0.9677	0.93817	0.9415	0.9477	0.9462	0.91433	0.92789
chr17	28633945	28633958	2	0.973	0.9687	0.95287	0.6228	0.9215	0.963	0.36525	0.9645	0.957	0.8845	0.945	0.94267
chr17	29307461	29307477	3	0.89533	0.888	0.94717	0.94927	0.38867	0.6863	0.94167	0.964	0.5387	0.9222	0.95217	0.97761
chr17	35003369	35003419	4	0.981	0.9815	0.97038	0.93645	0.9555	0.9653	0.9615	0.9713	0.9825	0.976	0.96363	0.95225
chr17	35099533	35100028	5	0.959	0.9754	0.94585	0.9152	0.9872	0.9454	0.9483	0.9681	0.969	0.9687	0.9058	0.94057
chr17	35241550	35241579	4	0.95925	0.0258	0.15213	0.96125	0.168	0.5035	0.97675	0.8815	0.4638	0.8173	0.97562	0.95983
chr17	35530173	35530184	2	0.8815	0.9915	0.88858	0.9473	0.9	0.885	0.97625	0.4008	0.729	0.0993	0.948	0.9655
chr17	35879519	35879530	2	1	0.9412	0.87613	0.95188	0.923	0.976	0.91725	0.4273	0.716	0.0585	0.95	0.98367
chr17	35880250	35880330	5	0.9354	0.948	0.797	0.90128	0.5836	0.4118	0.8792	0.2613	0.2876	0.023	0.9339	0.91253

***FIG. 6* (Continued)**

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chr17	4518350	4518417	5	0.92883	0.9604	0.93577	0.8924	0.9158	0.9602	0.3325	0.9846	0.9636
chr17	4678601	4678612	2	0.67364	0.1495	0.71108	0.922	0.72992	0.9737	0.917	0.9905	0.858
chr17	4722676	4722681	2	0.90764	0.9855	0.97492	0.928	0.95475	0.9797	0.82425	0.9835	0.9145
chr17	4794886	4794926	5	0.94289	0.9876	0.94617	0.9552	0.95523	0.9856	0.9419	0.9498	0.9688
chr17	4830455	4830550	7	0.95619	0.9447	0.94069	0.97671	0.93586	0.9582	0.88993	0.91743	0.96971
chr17	4830489	4830550	5	0.96563	0.9502	0.9479	0.9772	0.93517	0.96004	0.8984	0.9242	0.969
chr17	8269403	8269412	2	0.90093	0.969	0.98067	0.946	0.92325	0.9782	0.9585	0.968	0.9535
chr17	9123921	9123943	3	0.93667	0.9727	0.961	0.27767	0.9525	0.92973	0.09533	0.95167	0.77967
chr17	9527102	9527174	7	0.98123	0.9841	0.96595	0.97557	0.96612	0.97998	0.96629	1	0.97957
chr17	10678195	10678287	5	0.90803	0.0372	0.2263	0.9528	0.85947	0.96084	0.9183	0.9618	0.972
chr17	10689031	10689074	5	0.98697	0.9622	0.98607	0.9822	0.9698	0.98916	0.9923	0.9482	0.9916
chr17	16246732	16246788	5	0.98717	0.9666	0.96283	0.9692	0.95263	0.98872	0.9573	0.9936	0.9666
chr17	16968071	16968121	5	0.94346	0.9808	0.95287	0.2384	0.96407	0.92244	0.1366	0.9606	0.9772
chr17	16968078	16968130	5	0.93589	0.9726	0.9503	0.21	0.96077	0.93056	0.1361	0.9662	0.959
chr17	17711090	17711243	6	0.96057	0.9378	0.95139	0.95183	0.94758	0.97967	0.88442	0.98033	0.94983
chr17	18180064	18180085	2	0.955	0.9745	0.94258	0.981	0.96775	0.9686	0.97775	0.9835	0.987
chr17	18931658	18931731	6	0.97972	NaN	0.96189	0.97617	0.96292	0.94	0.94567	0.94683	0.95067
chr17	18931666	18931731	5	0.97803	NaN	0.96211	0.9714	0.9632	0.94312	0.9393	0.9562	0.9408
chr17	19723576	19723656	9	0.95363	0.9463	0.89891	0.93967	0.93444	0.97156	0.88583	0.98833	0.94744
chr17	21282463	21282491	2	0.12635	0.9325	0.93942	0.855	0.83792	0.9644	0.52025	0.979	0.9145
chr17	27224732	27225140	2	0.22943	0.9595	0.96158	0.919	0.92633	0.9656	0.8485	0.945	0.9325
chr17	27403619	27403651	3	0.91529	0.9223	0.91928	0.97267	0.90606	0.9758	0.93433	0.974	0.954
chr17	28633945	28633958	2	0.94957	0.908	0.94958	0.9305	0.94928	0.9826	0.886	0.983	0.9285
chr17	29307461	29307477	3	0.96119	0.9333	0.95989	0.95167	0.97078	0.9634	0.89617	0.99367	0.52067
chr17	35003369	35003419	4	0.95514	0.0675	0.03883	0.98325	0.94496	0.972	0.9635	0.98725	0.97575
chr17	35099533	35100028	5	0.93457	NaN	0.00927	0.96	0.9338	0.971	0.9363	0.974	0.966
chr17	35241550	35241579	4	0.97361	0.9813	0.96483	0.97625	0.94088	0.9819	0.94263	0.97575	0.04325
chr17	35530173	35530184	2	0.9665	0.9735	0.93575	0.932	0.9615	0.9653	0.867	0.9555	0.957
chr17	35879519	35879530	2	0.96408	0.9775	0.95317	0.866	0.96817	0.9656	0.94525	0.9395	0.9485
chr17	35880250	35880330	5	0.93003	0.9022	0.89677	NaN	0.91097	0.90688	0.0803	0.946	0.8102

FIG. 6 **(Continued)**

chr17	36182356	36182373	5	0.9518	0.9671	0.9801	0.97155	0.9624	0.9856	0.9762	0.9424	0.9406	0.962	0.9542	0.96773
chr17	38460398	38460434	3	0.90633	0.9612	0.9595	0.95087	0.957	0.94	0.99217	0.9377	0.891	0.922	0.2015	0.97756
chr17	38913668	38913774	8	0.92925	0.9659	0.85053	0.92328	0.94537	0.8201	0.868	0.1321	0.902	0.7309	0.9255	0.93206
chr17	38913694	38913774	6	0.931	0.9662	0.85558	0.92937	0.94983	0.8333	0.86342	0.1273	0.9083	0.7268	0.92283	0.93547
chr17	38913722	38913774	5	0.9374	0.9679	0.8636	0.93032	0.9506	0.855	0.8634	0.1261	0.915	0.732	0.9138	0.9382
chr17	39969569	39969579	2	0.967	0.9602	0.9465	0.058	NaN	0.934	0.6965	0.9173	0.9295	0.9515	0.93525	0.3315
chr17	42015809	42015850	4	0.93975	0.9456	0.89938	0.89902	0.97425	0.8183	0.84513	0.1078	0.703	0.2761	0.95813	0.9263
chr17	42115696	42115748	5	0.9602	0.9901	0.9658	0.9592	0.979	0.9844	0.9773	0.9803	0.9798	0.9706	0.9592	0.981
chr17	42129769	42129807	2	0.792	0.963	0.94312	0.2005	0.899	1	0.47875	0.9443	0.861	0.9303	0.96875	0.0143
chr17	42524055	42524088	3	0.96667	0.8697	0.86483	0.90443	0.05067	0.01	0.923	0.8533	0.068	0.1848	0.9355	0.97183
chr17	44424847	44425525	4	NaN	0.9421	0.96352	0.95095	NaN	0.1605	0.93538	0.8598	0.744	0.9341	0.93437	0.9835
chr17	44424973	44425525	3	NaN	0.9228	0.95828	0.9376	NaN	0.0807	0.91383	0.813	0.6587	0.9122	0.9125	0.978
chr17	44847288	44847327	6	0.95283	0.9937	0.95596	0.97047	0.993	0.9592	0.97625	0.9653	0.9558	0.969	0.96892	0.97358
chr17	46171232	46171280	5	0.9896	0.9736	0.93935	0.91296	0.9424	0.9626	0.9437	0.9662	0.9764	0.9704	0.9527	0.95127
chr17	48554777	48554834	5	0.984	0.9717	0.9804	0.96672	0.9828	0.992	0.9799	0.9651	0.9718	0.9689	0.9419	0.95943
chr17	50917613	50917720	4	0.93425	0.9708	0.96219	0.9671	0.9525	0.9373	0.9785	0.9596	0.9563	0.9581	0.90587	0.973
chr17	55433478	55433510	3	0.91633	0.9734	0.96142	0.88113	0.58733	0.2847	0.98233	0.9617	0.8083	0.9318	0.95583	0.94672
chr17	57575332	57575426	5	0.9732	0.9611	0.9232	0.93372	0.9684	0.9596	0.9226	0.1764	0.9328	0.8697	0.9543	0.95953
chr17	58206130	58206163	6	0.974	0.9777	0.977	0.9727	0.97617	0.9665	0.96342	0.9606	0.9598	0.9623	0.95233	0.97547
chr17	58206145	58206163	5	0.9688	0.9763	0.97545	0.97784	0.9762	0.9652	0.9633	0.9642	0.9558	0.965	0.9633	0.9744
chr17	58206406	58206542	5	0.9562	0.9615	0.9748	0.95748	0.9542	0.9302	0.9695	0.9713	0.9578	0.9613	0.9121	0.9733
chr17	59032416	59032483	6	NaN	0.9833	0.97954	0.9824	1	0.9815	1	0.974	0.9833	0.9803	0.99483	0.98042
chr17	60059906	60060094	5	0.9846	0.9873	0.9705	0.97116	0.9648	0.9652	0.9838	0.9554	0.981	0.9783	0.919	0.96813
chr17	60424596	60424614	2	0.93	0.9458	0.976	0.2444	0.905	0.9085	0.312	0.972	0.8295	0.9283	0.955	0.89
chr17	61110366	61110396	5	1	0.9516	0.9733	0.93692	0.958	0.832	0.9152	0.9889	0.9658	0.9776	0.9198	0.97173
chr17	61605470	61605513	5	0.8796	0.9905	0.9895	0.98672	0.9428	0.9682	0.9882	0.9624	0.9642	0.9142	0.9683	0.9753
chr17	63754029	63754102	4	0.9385	0.9812	0.98675	0.9464	0.9865	0.9553	0.9445	0.9806	0.9368	0.9733	0.94175	0.96004
chr17	64174680	64174722	2	0.895	0.9597	0.9725	0.4572	0.9295	0.9735	0.749	0.959	0.887	0.9718	0.927	0.08558
chr17	64405496	64405615	5	0.9912	0.9786	0.95785	0.04408	0.976	0.9462	0.2529	0.9557	0.9586	0.9574	0.9273	0.0674
chr17	64405500	64405628	5	0.9766	0.9774	0.95475	0.044	0.9722	0.9512	0.23	0.9623	0.969	0.9607	0.9192	0.06693

***FIG. 6* (Continued)**

SUBSTITUTE SHEET (RULE 26)

chr17	36182356	36182373	5	0.96017	0.9472	0.95477	0.9092	0.9621	0.96756	0.9172	0.9826	0.9532	
chr17	38460398	38460434	3	0.96448	0.9463	0.96533	0.934	0.95617	0.96873	0.89067	0.97533	0.96567	
chr17	38913668	38913774	8	0.91618	0.3154	0.87456	0.9525	0.91758	0.96242	0.91513	0.96137	0.925	
chr17	38913694	38913774	6	0.917	0.3132	0.88525	0.94533	0.91925	0.96173	0.90775	0.96017	0.92167	
chr17	38913722	38913774	5	0.92006	0.3198	0.89637	0.9422	0.92483	0.9612	0.9039	0.96	0.9322	
chr17	39969569	39969579	2	0.0595	0.063	0.04938	0.942	0.258	0.9433	0.85925	0.9795	0.95	
chr17	42015809	42015850	4	0.92839	0.9205	0.94492	0.7835	0.94683	0.95675	0.87125	0.9785	0.91125	
chr17	42115696	42115748	5	0.96629	0.9642	0.9712	0.0162	0.9656	0.91512	0.1317	0.994	0.977	
chr17	42129769	42129807	2	0.01033	0.969	0.9365	0.95	0.94708	0.966	0.94	0.9455	0.9375	
chr17	42524055	42524088	3	0.95424	0.947	0.96172	0.52133	0.96933	0.91553	0.1635	0.92533	0.37067	
chr17	44424847	44425525	4	0.95332	0.9643	0.97529	0.99475	0.96896	0.9747	0.77138	0.9595	NaN	
chr17	44424973	44425525	3	0.96237	0.9523	0.96967	0.993	0.96306	0.97	0.7105	0.96833	NaN	
chr17	44847288	44847327	6	0.96199	0.9198	0.95744	0.95817	0.95722	0.93106	0.95225	0.9775	0.92067	
chr17	46171232	46171280	5	0.95237	0.0896	0.0099	0.9768	0.90073	0.97864	0.9687	0.9716	0.9852	
chr17	48554777	48554834	5	0.9648	0.9434	0.97027	0.9694	0.9737	0.95372	0.9397	0.9838	0.9732	
chr17	50917613	50917720	4	0.9815	0.9593	0.96904	0.1035	0.97017	0.8954	0.17613	0.95775	0.983	
chr17	55433478	55433510	3	0.97124	0.9443	0.95389	0.96967	0.96156	0.98147	0.85217	0.97	0.73633	
chr17	57575332	57575426	5	0.95731	0.9354	0.9519	0.962	0.92683	0.96808	0.9655	0.9812	0.977	
chr17	58206130	58206163	6	0.96776	0.0868	0.97575	0.98383	0.96669	0.97383	0.94183	0.97083	0.96217	
chr17	58206145	58206163	5	0.96474	0.082	0.97437	0.9806	0.96623	0.973	0.9537	0.9752	0.9644	
chr17	58206406	58206542	5	0.96626	0.2022	0.96423	0.9706	0.96423	0.98212	0.9468	0.9702	0.973	
chr17	59032416	59032483	6	0.97954	0.9667	0.98241	0.98233	0.96586	0.98028	0.95617	0.99167	NaN	
chr17	60059906	60060094	5	0.97869	0.1472	0.96103	0.9292	0.96749	0.97084	0.9239	0.964	0.9744	
chr17	60424596	60424614	2	0.86079	0.99	0.96425	0.9585	0.96167	0.9724	0.87875	0.9945	0.941	
chr17	61110366	61110396	5	0.96403	0.9924	0.97252	0.9654	0.95387	0.9724	0.9771	0.984	1	
chr17	61605470	61605513	5	0.98323	1	0.95877	0.9588	0.972	0.9762	0.9209	0.962	0.98	
chr17	63754029	63754102	4	0.96407	NaN	0.01571	0.95675	0.95117	0.972	0.92175	0.951	0.9525	
chr17	64174680	64174722	2	0.08164	0.914	0.87975	0.976	0.81533	0.9943	0.906	0.984	0.9685	
chr17	64405496	64405615	5	0.07246	0.7966	0.09923	0.8244	0.03063	0.9074	0.8667	0.9726	0.9538	
chr17	64405500	64405628	5	0.07366	0.7856	0.07867	0.8812	0.03053	0.91876	0.8936	0.9678	0.9582	

FIG. 6 **(Continued)**

chr17	65593301	65593384	5	0.9162	0.3779	0.0977	0.89852	0.7874	0.402	0.9466	0.8542	0.7342	0.5005	0.8679	0.93463
chr17	66250687	66250707	2	0.95	0.9833	0.98538	0.9677	0.714	0.166	0.977	0.9748	0.842	0.948	0.88925	0.98042
chr17	66304117	66304176	3	0.96333	0.8719	0.914	0.9296	0.66967	0.2843	0.92833	0.9342	0.7067	0.8843	0.89867	0.94333
chr17	66399140	66399167	3	0.94433	0.0906	0.17242	0.93593	0.654	0.0923	0.911	0.9175	0.5357	0.4803	0.8385	0.91084
chr17	66400260	66400344	4	0.96725	0.9464	0.89467	0.96525	NaN	0.3278	0.98425	0.945	0.7943	0.5736	0.8775	0.97154
chr17	66470522	66470674	4	0.9365	0.9242	0.85219	0.87845	0.332	0.0895	0.86287	0.858	0.3318	0.1703	0.8695	0.91554
chr17	66534522	66534561	5	0.9846	0.9869	0.9629	0.97761	0.9846	0.9714	0.9757	0.9808	NaN	0.9933	0.9037	0.97728
chr17	66786118	66786253	5	0.9878	0.9603	0.93635	0.91992	0.9192	0.9514	0.8978	0.9313	0.8496	0.8388	0.8165	0.9526
chr17	67393907	67393964	4	0.97725	0.9637	0.90756	0.95995	0.9775	0.888	0.89138	0.1929	0.9865	0.8496	0.93625	0.97462
chr17	67398878	67399045	7	1	0.099	0.4762	0.96671	0.74243	0.853	0.97979	0.9041	0.5576	0.8499	0.94157	0.97602
chr17	67398940	67398977	3	1	0.0839	0.463	0.9764	0.73333	0.9087	0.98883	0.9037	0.592	0.8587	0.90217	0.98311
chr17	67402884	67402960	5	0.9544	0.9578	0.87585	0.93332	0.958	0.9276	0.9042	0.1779	0.8962	0.788	0.9043	0.9406
chr17	67407663	67407783	6	0.98417	0.9796	0.93075	0.96953	0.96483	0.9703	0.90783	0.0676	0.9793	0.8456	0.94867	0.96614
chr17	67407707	67407783	5	0.981	0.9791	0.93105	0.97164	0.9578	0.9644	0.9074	0.0611	0.9752	0.8314	0.9415	0.96517
chr17	67407733	67407783	4	0.98375	0.9809	0.927	0.9678	0.97	0.9618	0.90412	0.0589	0.9758	0.818	0.938	0.96375
chr17	67870791	67870857	6	0.9585	0.9794	0.95613	0.9668	0.96733	0.9485	0.95742	0.9756	0.981	0.9424	0.96325	0.95594
chr17	68320103	68320200	6	0.95	0.9817	0.97054	0.95337	0.98483	0.9593	0.95442	0.9605	0.9908	0.9612	0.89933	0.96722
chr17	71332252	71332264	2	NaN	1	0.96562	0.8924	1	0.9585	0.8575	0.9615	0.6	0.9495	1	0.89758
chr17	72708965	72709006	5	0.974	0.2587	0.6755	0.96112	0.4488	NaN	0.9535	0.942	0.5462	0.88	0.9409	0.96017
chr17	72733105	72733118	2	0.923	0.9662	0.96663	0.8215	0.96	0.985	0.30425	0.9695	0.905	0.9715	0.897	0.91075
chr17	73288632	73288645	2	0.959	0.975	0.97337	0.12738	0.8895	0.9395	0.845	0.9188	0.872	0.8268	0.9475	0.90775
chr17	75296302	75296321	3	0.93467	0.9532	0.90842	0.10912	0.861	0.9017	0.1875	0.909	0.6753	0.7708	0.93267	0.08428
chr17	75314236	75314253	2	NaN	1	0.9455	0.25008	0.9165	0.8885	0.1665	0.9495	0.7425	0.6415	0.95	0.26192
chr17	76193799	76193852	3	0.94067	0.082	0.16933	0.9454	0.24833	0.2947	0.9545	0.915	0.4207	0.8432	0.82467	0.97311
chr17	76328835	76328921	4	0.98625	0.9718	0.97037	0.88685	0.9675	0.9853	0.92162	0.9669	0.974	0.9578	0.9565	0.89404
chr17	76713396	76713522	3	0.96967	0.1562	0.13058	0.90687	0.71467	0.7627	0.96167	0.8753	0.6563	0.816	0.9255	0.94806
chr17	77100156	77100331	8	0.92575	0.9781	0.96994	0.05738	0.9775	0.97	0.17862	0.9508	0.939	0.9497	0.94281	0.06598
chr17	77100257	77100331	7	0.92129	0.9785	0.97418	0.06557	0.98186	0.9901	0.17086	0.9516	0.9549	0.9609	0.96457	0.07364
chr17	77323303	77323330	2	NaN	0.9602	0.95175	0.005	0.927	0.9145	0.14275	0.9505	0.89	0.907	0.8235	0
chr17	77378015	77378024	2	0.9135	0.786	0.2145	0.9566	0.842	0.8425	0.952	0.8408	0.796	0.851	0.9	0.96192

***FIG. 6* (Continued)**

SUBSTITUTE SHEET (RULE 26)

chr17	65593301	65593384	5	0.93877	0.927	0.9223	0.9098	0.93793	0.96264	0.8536	0.9754	0.705
chr17	66250687	66250707	2	0.97571	0.7985	0.96942	1	0.98	0.9765	0.88075	0.976	0.815
chr17	66304117	66304176	3	0.95171	0.944	0.94689	0.955	0.94633	0.93187	0.89717	0.902	0.76567
chr17	66399140	66399167	3	0.94019	0.9573	0.95128	0.95133	0.92122	0.94613	0.93433	0.95367	0.94667
chr17	66400260	66400344	4	0.96879	0.9463	0.93887	0.5245	0.95079	0.92745	0.152	0.95525	0.90525
chr17	66470522	66470674	4	0.89461	0.8995	0.89729	0.29325	0.88908	0.90009	0.07738	0.95375	0.40575
chr17	66534522	66534561	5	0.9688	0.9786	0.97967	0.9246	0.96364	0.96688	0.9026	0.9716	0.9384
chr17	66786118	66786253	5	0.96063	0.9798	0.94187	0.0766	0.9453	0.09	0.1984	0.0512	0.951
chr17	67393907	67393964	4	0.96754	0.9775	0.96812	0.96275	0.95954	0.9697	0.92938	0.96875	0.96475
chr17	67398878	67399045	7	0.96332	0.9544	0.95969	0.94371	0.95371	0.95718	0.91443	0.95143	0.74229
chr17	67398940	67398977	3	0.97148	0.9583	0.96972	0.95833	0.96228	0.97353	0.928	0.97767	0.81733
chr17	67402884	67402960	5	0.94109	0.2836	0.9573	0.9206	0.9527	0.96928	0.8429	0.966	0.9586
chr17	67407663	67407783	6	0.97288	0.924	0.97369	0.94733	0.96322	0.9678	0.93917	0.96017	0.95867
chr17	67407707	67407783	5	0.9734	0.9222	0.97413	0.9738	0.95893	0.96392	0.9537	0.9598	0.9552
chr17	67407733	67407783	4	0.97364	0.908	0.97375	0.98025	0.95958	0.9653	0.94488	0.9635	0.9495
chr17	67870791	67870857	6	0.98838	0.9663	0.97075	0.98667	0.96683	0.98977	0.97092	0.96933	0.96383
chr17	68320103	68320200	6	0.96412	0.9582	0.96717	0.10917	0.96672	0.87613	0.35167	0.95267	0.98417
chr17	71332252	71332264	2	0.97433	1	0.9275	0.8	0.93958	0.95965	0.82725	0.9615	0.9585
chr17	72708965	72709006	5	0.96751	0.9528	0.9633	0.9796	0.94337	0.96768	0.9759	0.9796	0.7426
chr17	72733105	72733118	2	0.90221	0.9675	0.97825	0.931	0.90292	0.9652	0.901	0.971	0.9595
chr17	73288632	73288645	2	0.88457	0.888	0.90867	0.924	0.95242	0.9413	0.824	0.9665	0.912
chr17	75296302	75296321	3	0.09495	0.8297	0.50956	0.00467	0.08521	0.01673	0.03417	0.934	0.802
chr17	75314236	75314253	2	0.7085	0.875	0.755	0.875	0.1924	0.9727	0.22225	1	1
chr17	76193799	76193852	3	0.96252	0.9467	0.96811	0.944	0.9505	0.97127	0.74317	0.99167	0.621
chr17	76328835	76328921	4	0.90786	0.9128	0.0271	0.9895	0.90138	0.9789	0.96375	0.97575	0.9045
chr17	76713396	76713522	3	0.94695	0.962	0.95633	0.978	0.95444	0.9722	0.969	0.95367	0.722
chr17	77100156	77100331	8	0.06767	0.0781	0.33922	0.94888	0.07533	0.94075	0.87794	0.8915	0.9865
chr17	77100257	77100331	7	0.07395	0.0893	0.37766	0.95743	0.08466	0.94009	0.90029	0.88614	1
chr17	77323303	77323330	2	0.04267	0.838	0.81558	0.016	0.66308	0.0023	0.061	0.021	0.9375
chr17	77378015	77378024	2	0.95564	0.954	0.95983	0.9555	0.94583	0.9686	0.88025	0.9395	0.92

FIG. 6 **(Continued)**

chr17	78647201	78647324	2	0.946	0.9603	0.95125	0.3892	0.941	0.976	0.477	0.9383	0.957	0.9693	0.89175	0.20483
chr17	79516760	79516794	6	0.923	0.958	0.96954	0.956	0.93733	0.9348	0.96408	0.9554	0.9008	0.9296	0.92758	0.94936
chr17	80207040	80207052	2	0.9475	0.9612	0.94025	0.04753	0.9295	0.961	0.25625	0.9498	0.923	0.9218	0.87	0.23633
chr17	80207213	80207278	4	0.925	0.9521	0.92362	0.24985	0.9435	0.9288	0.54988	0.9564	0.9163	0.9363	0.91725	0.47729
chr17	81155103	81155171	5	0.8964	0.9667	0.9251	0.03396	0.937	0.963	0.195	0.9517	0.9452	0.9551	0.8929	0.10053
chr17	81209647	81209685	6	0.92033	0.9858	0.98185	0.987	0.92583	1	0.96342	0.9718	0.972	1	0.98033	0.97736
chr17	81818908	81818987	5	0.92	0.9798	0.9715	0.9646	0.9702	0.9248	0.97	0.9533	0.9446	0.9303	0.9448	0.94023
chr17	82112787	82112844	6	0.97567	0.9678	0.98225	0.975	0.97817	0.9787	0.98158	0.9687	0.9613	0.9562	0.947	0.96697
chr17	82112797	82112844	5	0.9774	0.9674	0.9803	0.97396	0.9766	0.9788	0.9779	0.9677	0.9564	0.9534	0.9494	0.9677
chr17	82121722	82121750	3	0.15	0.9601	0.9595	0.91593	0.966	0.9683	0.9385	0.952	0.9157	0.9288	0.8635	0.93931
chr17	82316823	82316912	6	0.96617	0.0392	0.05189	0.94583	0.20683	0.1195	0.90817	0.0732	0.3165	0.1766	0.94342	0.95183
chr17	82316840	82316902	4	0.958	0.0361	0.04971	0.93745	0.1655	0.1035	0.9015	0.0369	0.3048	0.1395	0.942	0.94371
chr17	82449502	82449554	7	0.03829	0	0.00507	0	0	0	0	0.002	0	0	0.03936	0.0206
chr17	82548076	82548158	3	1	0.955	0.9645	0.5222	0.95133	0.915	0.34883	0.903	0.8697	0.9327	0.89033	0.81761
chr17	82575708	82575891	5	0.9628	0.9755	0.9753	0.92936	0.9558	0.9732	0.9497	0.9624	0.9644	0.9833	0.9508	0.94213
chr17	82776693	82776718	3	0.966	0.8938	0.20642	0.9292	0.91167	0.663	0.82533	0.101	0.7097	0.1312	0.95433	0.92956
chr17	82776699	82776762	3	0.96533	0.92	0.42558	0.94187	0.899	0.7853	0.84617	0.2545	0.745	0.242	0.93967	0.94794
chr17	82973394	82973462	5	0.9572	0.9778	0.96145	0.94572	0.9866	0.9208	0.9573	0.9489	0.9478	0.9519	0.9456	0.97907
chr17	83026214	83026223	2	0.922	0.951	0.307	0.9731	0.921	0.856	0.94675	0.815	0.9005	0.717	0.94475	0.95817
chr17	83026408	83026530	4	0.91575	0.8239	0.08538	0.85585	0.8865	0.4628	0.85488	0.3004	0.802	0.3725	0.83363	0.91158
chr17	83110271	83110304	5	0.932	0.9741	0.98155	0.94484	0.9402	0.939	0.968	0.9565	0.974	0.9513	0.9394	0.94973
chr17	83199584	83199621	6	0.01733	0.0116	0.00479	0.00277	0.007	0.0108	0.00242	0	0	0	0.07333	0.00219
chr17	83199590	83199621	5	0.0068	0.0096	0.00505	0.00232	0.0056	0.0086	0.0029	0	0	0	0.0587	0.00197
chr18	406432	406487	6	0.9395	0.9658	0.95404	0.9507	0.9205	1	0.94725	0.9627	0.9798	0.9493	0.90892	0.9765
chr18	2965453	2965458	2	0.8035	0.9663	0.92825	0.943	0.5	0.898	0.96175	0.9155	0.8885	0.956	1	0.93133
chr18	3066515	3066629	2	1	0.9938	0.89525	0.9482	0.9655	0.829	0.8545	0.173	0.5485	0.415	0.94225	0.93467
chr18	3319556	3319626	3	0.923	0.9267	0.86917	0.90633	0.19033	0.0637	0.89017	0.7507	0.0987	0.0805	0.763	0.934
chr18	12920956	12921047	4	0.97	0.9204	0.84581	0.9338	0.52625	0.7438	0.87438	0.0549	0.1738	0.1356	0.91463	0.97087
chr18	12921001	12921047	3	0.96	0.9097	0.82775	0.9348	0.47167	0.698	0.87367	0.0423	0.0997	0.1082	0.92017	0.96994
chr18	13375822	13375835	3	1	0.8209	0.90542	0.93955	0.634	0.9083	0.9815	0.9687	0.5457	0.8568	0.975	0.95522

FIG. 6 (Continued)

chr17	78647201	78647324	2	0.21	0.943	0.96533	0.9635	0.93458	0.9703	0.93925	0.9785	0.9525	
chr17	79516760	79516794	6	0.95336	0.9533	0.95553	0.94133	0.95411	0.9704	0.91558	0.9835	0.953	
chr17	80207040	80207052	2	0.18643	0.933	0.94233	0.962	0.65967	0.9714	0.892	0.984	0.924	
chr17	80207213	80207278	4	0.47229	0.911	0.90879	0.92975	0.80329	0.94785	0.94287	0.97375	0.92025	
chr17	81155103	81155171	5	0.0994	0.0714	0.00543	0.939	0.0853	0.96284	0.8868	0.9832	0.9682	
chr17	81209647	81209685	6	0.96976	0.992	0.97561	0.9855	0.97839	0.97477	0.98958	1	0.97233	
chr17	81818908	81818987	5	0.94777	0.9732	0.9482	1	0.96107	0.96708	0.9481	0.965	0.9432	
chr17	82112787	82112844	6	0.97293	0.0927	0.93167	0.9585	0.96753	0.9753	0.94117	0.97817	0.9745	
chr17	82112797	82112844	5	0.97334	0.0772	0.92817	0.9632	0.96703	0.97712	0.9382	0.9802	0.9722	
chr17	82121722	82121750	3	0.942	0.931	0.95828	0.928	0.94756	0.9678	0.89567	0.94867	0.96	
chr17	82316823	82316912	6	0.93852	0.9335	0.94519	0.8995	0.94381	0.94783	0.75533	0.9595	0.03033	
chr17	82316840	82316902	4	0.92804	0.9325	0.93542	0.89975	0.93896	0.9438	0.7235	0.957	0.0295	
chr17	82449502	82449554	7	0.00508	0	0.00479	0	0.00024	0.00057	0	0.001714	0	
chr17	82548076	82548158	3	0.813	0.9367	0.96633	0.95067	0.9555	0.95167	0.85383	0.98167	0.94733	
chr17	82575708	82575891	5	0.93643	0.0774	0.7117	0.9656	0.94067	0.95886	0.9601	0.9718	0.9846	
chr17	82776693	82776718	3	0.931	0.8743	0.84339	0.248	0.90089	0.60753	0.46067	0.781	0.72967	
chr17	82776699	82776762	3	0.94157	0.9203	0.89278	0.294	0.92206	0.6844	0.48833	0.83767	0.794	
chr17	82973394	82973462	5	0.96591	0.9676	0.96353	0.8492	0.96463	0.96976	0.1941	0.9634	0.9716	
chr17	83026214	83026223	2	0.97064	0.9785	0.96242	0.9545	0.96442	0.9803	0.92	0.9845	0.94	
chr17	83026408	83026530	4	0.91771	0.8668	0.87917	0.9455	0.90375	0.9276	0.8675	0.96625	0.84325	
chr17	83110271	83110304	5	0.9376	0.8494	0.97077	0.9362	0.963	0.96636	0.9223	0.9806	0.9838	
chr17	83199584	83199621	6	0.006	0	0.00236	0.00167	0.0005	0	0.0015	0	0.00217	
chr17	83199590	83199621	5	0.00594	0	0.00283	0	0.0004	0	0	0	0	
chr18	406432	406487	6	0.97497	0.977	0.95808	0.91033	0.969	0.98073	0.92408	0.97483	0.9415	
chr18	2965453	2965458	2	0.92329	0.921	0.96017	0.9165	0.96942	0.9635	0.97725	0.971	1	
chr18	3066515	3066629	2	0.96264	0.185	0.50817	0.925	0.95117	0.9639	0.86	0.944	0.875	
chr18	3319556	3319626	3	0.93733	0.8653	0.92361	0.15733	0.91761	0.8926	0.06933	0.948	0.493	
chr18	12920956	12921047	4	0.96054	0.9398	0.95654	0.93775	0.94354	0.96175	0.92562	0.98175	0.4875	
chr18	12921001	12921047	3	0.96095	0.9423	0.96072	0.93767	0.94411	0.95927	0.919	0.981	0.33733	
chr18	13375822	13375835	3	0.96362	0.9753	0.97161	1	0.97022	0.98207	0.95767	0.99067	0.19767	

FIG. 6 **(Continued)**

chr18	13383549	13383600	4	0.975	0.8827	0.95944	0.9016	0.4155	0.886	0.95737	0.9573	0.8398	0.949	0.90838	0.95183
chr18	13383553	13383566	2	0.963	0.876	0.96413	0.8898	0.3845	0.8665	0.9675	0.9438	0.871	0.9573	0.89825	0.95808
chr18	21593454	21593474	5	1	0.9776	0.9878	0.98108	0.992	0.981	0.9684	0.9821	0.9758	0.9799	0.9452	0.9817
chr18	23571071	23571106	2	1	0.9795	0.8885	0.9693	1	0.9385	0.79625	0	0.5805	0	0.9585	0.97092
chr18	24080871	24080909	2	0.975	0.845	0.2885	0.9777	0.917	0.8395	0.97075	0.9333	0.9135	0.9375	0.846	0.95792
chr18	24465638	24465723	5	0.907	0.9575	0.9602	0.06292	0.8952	0.8706	0.1682	0.9259	0.8668	0.92	0.9115	0.11705
chr18	25978858	25978869	3	0.85667	0.9317	0.87397	0.87637	0.93533	0.803	0.80633	0.0675	0.7417	0.1783	0.96417	0.86311
chr18	26261356	26261412	5	0.99	0.9797	0.96245	0.94836	0.9818	1	0.974	0.9613	0.965	0.9537	0.9647	0.9609
chr18	32106816	32106859	4	0.97425	0.9038	0.90494	0.96095	0.3235	0.5183	0.963	0.8766	0.3073	0.5513	0.94812	0.96171
chr18	45048927	45048975	6	NaN	0.9728	0.99037	0.9583	0.98717	0.975	0.97675	0.9844	0.971	0.976	0.93858	0.96475
chr18	46229407	46229412	2	0.9065	0.85	0.94663	0.935	0.8575	0.9115	0.955	0.9688	0.803	0.9623	0.9895	0.94608
chr18	48595792	48595837	2	0.9835	0.9802	0.96037	0.8473	0.943	0.947	0.36	0.9608	0.954	0.9265	0.9185	0.91508
chr18	48998067	48998072	2	0.961	0.9685	0.97062	0.01433	0.9585	0.9815	0.216	0.9308	0.9135	0.9423	0.94475	0.19188
chr18	49067560	49067573	2	0.9605	0.9752	0.97612	0.46025	0.9385	0.937	0.587	0.956	0.927	0.8798	0.9085	0.93775
chr18	57622915	57622953	6	0.92667	0.9821	0.9705	0.94973	0.98433	0.9953	0.94275	0.9625	0.977	0.9746	0.92008	0.954
chr18	57622920	57622953	5	0.912	0.9799	0.96835	0.94452	0.9812	0.9944	0.9502	0.9589	0.978	0.9719	0.9225	0.95143
chr18	58626015	58626088	2	0.9365	0.984	0.984	0.9555	0.9445	0.4455	0.946	0.9573	0.901	0.9653	0.8745	0.96933
chr18	58626136	58626245	2	0.9165	0.9777	0.96925	0.9304	0.954	0.5095	0.96825	0.9528	0.9615	0.9585	0.87225	0.9745
chr18	63074350	63074398	5	0.9666	0.982	0.9829	0.96698	0.9584	0.9914	0.9938	0.9869	NaN	0.9875	0.9495	0.98087
chr18	70324249	70324260	2	1	1	1	0.975	0.9165	0.7165	0.96675	0.9728	0.5	0.9823	1	0.9889
chr18	75511997	75512045	5	0.9624	0.9777	0.9708	0.97588	1	0.9792	0.9607	0.9667	1	0.9592	0.9471	0.9745
chr18	76460114	76460231	5	0.9702	0.9726	0.96435	0.94884	0.9446	0.9522	0.9702	0.943	0.94	0.9438	0.9529	0.9562
chr18	77114643	77114676	4	0.00275	0.401	0.22744	0	0.818	0.8833	0.01588	0.0503	0.8225	0.7629	0.00575	0.00358
chr18	79405069	79405085	3	0.886	0.8284	0.94508	0.9352	0.25167	0.8733	0.916	0.84	0.221	0.8208	0.913	0.922
chr18	79496382	79496404	4	0.98175	0.9653	0.96506	0.9468	0.98525	0.9645	0.94937	0.9669	0.9563	0.9728	0.96837	0.97733
chr18	79795006	79795030	4	0.90825	0.9722	0.91731	0.02926	0.935	0.93	0.1785	0.9243	0.9588	0.957	0.90875	0.13142
chr18	79943309	79943372	8	0.98512	0.9727	0.96863	0.96613	0.96875	0.977	0.979	0.9682	0.9784	0.9838	0.83456	0.96915
chr18	79943314	79943372	7	0.98457	0.9745	0.96936	0.96903	0.96429	0.9737	0.97757	0.9658	0.9787	0.9815	0.85757	0.9684
chr18	79963952	79964005	2	0.982	0.9718	0.90787	0.9357	0.911	0.862	0.9055	0.4375	0.7455	0.1815	0.91275	0.96658
chr18	79983881	79983889	2	0.9855	0.8273	NaN	0.9307	0.9405	0.7525	0.81175	0.0075	0.8255	0.012	0.932	0.96983

***FIG. 6* (Continued)**

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chr18	13383549	13383600	4	0.93039	0.903	0.93725	0.939	0.95542	0.9747	0.91362	0.9675	0.06175
chr18	13383553	13383566	2	0.9205	0.9265	0.93367	0.936	0.95617	0.98	0.9465	0.9705	0.0565
chr18	21593454	21593474	5	0.9621	0.98	0.96953	1	0.95709	0.98682	0.9313	0.972	0.9704
chr18	23571071	23571106	2	0.9715	0.9655	0.96717	0.8535	0.97958	0.9744	0.804	0.955	0.9735
chr18	24080871	24080909	2	0.96607	0.9765	0.97283	0.9355	0.96883	0.9863	0.89225	0.99	0.9175
chr18	24465638	24465723	5	0.09878	0	0.00617	0.9114	0.08233	0.96544	0.8106	0.9724	0.9142
chr18	25978858	25978869	3	0.82205	0.8493	0.92583	0.41633	0.85278	0.54133	0.11917	0.50967	0.913
chr18	26261356	26261412	5	0.94683	0.9592	0.96803	0.9528	0.97647	0.96296	0.9681	0.9712	0.9948
chr18	32106816	32106859	4	0.95246	0.9298	0.96362	0.81925	0.93821	0.9547	0.37338	0.98575	0.41475
chr18	45048927	45048975	6	0.94025	0.9687	0.95978	1	0.96897	0.94313	0.9705	0.994	0.938
chr18	46229407	46229412	2	0.9555	NaN	0.93847	0.9695	0.95971	0.9827	0.89625	0.9875	0.312
chr18	48595792	48595837	2	0.9305	0.987	0.95842	0.93	0.96892	0.9672	0.835	0.9595	0.9435
chr18	48998067	48998072	2	0.1799	0.969	0.97642	0.9305	0.86833	0.968	0.55775	0.9795	0.983
chr18	49067560	49067573	2	0.9245	0.978	0.96883	0.9655	0.96992	0.9619	0.9365	0.9835	0.968
chr18	57622915	57622953	6	0.96486	0.1353	0.8225	0.95433	0.94636	0.96533	0.95925	0.96467	0.9575
chr18	57622920	57622953	5	0.96614	0.1246	0.81693	0.952	0.94293	0.9628	0.9584	0.9642	0.949
chr18	58626015	58626088	2	0.95521	0.9305	0.96517	0.957	0.95675	0.969	0.88225	0.989	0.955
chr18	58626136	58626245	2	0.95957	0.935	0.95617	0.9765	0.96625	0.9609	0.982	0.9525	0.98
chr18	63074350	63074398	5	0.95291	0.938	0.95607	0.9216	0.963	0.94943	0.9549	1	0.9182
chr18	70324249	70324260	2	0.95332	1	0.92625	1	0.97358	0.948	0.9045	0.9615	0.95
chr18	75511997	75512045	5	0.95298	0.9518	0.95093	0.9778	0.96693	0.96072	0.8471	0.9834	0.925
chr18	76460114	76460231	5	0.95309	0.9602	0.95643	0.955	0.96283	0.97772	0.9168	0.9768	0.973
chr18	77114643	77114676	4	0.0015	0	0.00133	0.86525	0.00929	0.4818	0.85925	0.38725	0.7765
chr18	79405069	79405085	3	0.94652	0.8737	0.94117	0.471	0.94267	0.9326	0.542	0.962	0.38367
chr18	79496382	79496404	4	0.96789	0.9648	0.97333	0.03575	0.97425	0.02915	0.66963	0.02075	0.931
chr18	79795006	79795030	4	0.10725	0.014	0.00546	0.973	0.03063	0.9404	0.9195	0.882	0.986
chr18	79943309	79943372	8	0.97518	0.096	0.97098	0.95237	0.97817	0.97788	0.95638	0.977	0.97025
chr18	79943314	79943372	7	0.97333	0.0963	0.97348	0.95086	0.97845	0.9788	0.95679	0.97857	0.97457
chr18	79963952	79964005	2	0.95307	0.9415	0.9435	0.829	0.95917	0.9685	0.3665	0.9605	0.964
chr18	79983881	79983889	2	0.95493	0.936	0.96	0.9215	0.948	0.9824	0.9295	0.9895	0.9715

***FIG. 6* (Continued)**

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chr19	361554	361588	5	0.7634	0.9633	0.95765	0.94456	0.9314	0.9714	0.9857	0.9564	0.9634	0.9766	0.9238	0.95422
chr19	1090855	1090880	3	0.94633	0.9306	0.19425	0.89625	0.588	0.25	0.9145	0.8842	0.5463	0.3857	0.94517	0.92804
chr19	1155168	1155200	4	0.98425	0.9749	0.93394	0	0.96275	0.9623	0.13862	0.9533	0.9645	0.9585	0.951	0.0095
chr19	1155184	1155259	6	0.9595	0.9722	0.93254	0	0.96433	0.9602	0.12458	0.9515	0.9415	0.9565	0.9445	0.00797
chr19	1155187	1155259	5	0.9514	0.9677	0.93075	0	0.9612	0.958	0.1197	0.9442	0.9364	0.9617	0.9412	0.00957
chr19	1155291	1155325	4	0.94275	0.9727	0.92463	0.001	0.91225	0.956	0.1225	0.9501	0.9513	0.9541	0.936	0.00529
chr19	1423709	1423802	6	0.96633	0.9781	0.94183	0.94757	0.963	0.9745	0.972	0.973	0.9685	0.9704	0.96442	0.96356
chr19	1647509	1647575	5	0.9484	0.9621	0.96362	0.94148	0.941	0.9292	0.9201	0.9208	0.9704	0.938	0.9496	0.96897
chr19	1647516	1647624	8	0.96775	0.9564	0.97588	0.92657	0.93962	0.9369	0.92875	0.946	0.9669	0.9568	0.94894	0.97067
chr19	1647547	1647624	7	0.96314	0.9561	0.97464	0.9222	0.94886	0.9331	0.932	0.9446	0.9621	0.9536	0.94586	0.96964
chr19	1647555	1647624	6	0.97783	0.9488	0.97838	0.92023	0.962	0.9323	0.94017	0.9463	0.9558	0.9595	0.95275	0.96722
chr19	1647572	1647624	5	0.9734	0.9412	0.97605	0.9178	0.9544	0.931	0.9438	0.9401	0.9624	0.9629	0.9483	0.96493
chr19	1647574	1647624	4	1	0.9468	0.97731	0.911	0.943	0.9223	0.952	0.9516	0.9625	0.9751	0.94563	0.97121
chr19	1647894	1647953	5	0.976	0.9595	0.96625	0.9558	0.947	NaN	0.9353	0.9627	0.972	0.9408	0.9617	0.9665
chr19	1648277	1648423	10	0.9656	0.9722	0.97663	0.95414	0.9517	0.9667	0.9221	0.9658	0.9421	0.9424	0.96175	0.97065
chr19	1648350	1648423	8	0.957	0.9692	0.98019	0.95985	0.95312	0.9735	0.91488	0.9708	0.9325	0.9478	0.96906	0.97273
chr19	1648360	1648423	7	0.96271	0.9666	0.97843	0.9632	0.96271	0.985	0.91371	0.9788	0.9384	0.9476	0.96843	0.97629
chr19	1648364	1648423	6	0.9565	0.9664	0.97608	0.96167	0.96117	0.9887	0.91092	0.9753	0.9323	0.948	0.97567	0.97789
chr19	1648373	1648423	5	0.9554	0.9642	0.97275	0.96488	0.9648	0.9928	0.9095	0.9732	0.9342	0.9562	0.9807	0.9799
chr19	1648937	1648993	6	0.98333	0.9837	0.96967	0.95063	0.95767	0.9408	0.96708	0.9603	0.964	0.9586	0.94667	0.97356
chr19	1648945	1648993	5	0.98	0.9841	0.97335	0.95296	0.9544	0.9472	0.966	0.9621	0.9568	0.969	0.9469	0.97783
chr19	1656098	1656132	3	0.894	0.9848	0.97367	0.94507	0.922	0.9483	0.96067	0.9197	0.9223	0.9222	0.088	0.94933
chr19	1836793	1836880	6	0.8725	0.9642	0.96904	0.9274	NaN	0.9645	0.95842	0.9396	0.9507	0.9553	0.20708	0.96161
chr19	1836827	1836981	4	NaN	0.9648	0.97537	0.93375	NaN	0.9623	0.95937	0.9003	0.9578	0.9316	0.07113	0.96192
chr19	1882274	1882299	4	0.979	0.0242	0.043	0.9467	0.00875	0.0435	0.85437	0.0826	0.011	0.0128	0.93738	0.95971
chr19	2347992	2348056	6	0.9725	0.9735	0.95242	0.93557	0.98717	1	0.96092	0.969	0.9625	0.9811	0.94492	0.97464
chr19	2348309	2348418	9	0.977	0.9774	0.95222	0.95182	0.98189	0.9731	0.98394	0.9651	0.9761	0.968	0.97489	0.96681
chr19	2540652	2540716	6	0.97283	0.9698	0.96583	0.93883	0.9775	NaN	0.95375	0.9614	0.952	0.9685	0.90258	0.95844
chr19	2540829	2540924	6	0.9815	0.9714	0.97033	0.94603	0.951	0.9545	0.97558	0.9596	0.9615	0.9368	0.89117	0.96339
chr19	2540921	2541019	8	0.97375	0.9719	0.97087	0.94615	0.9855	0.9855	0.96987	0.9714	0.9711	0.9703	0.94469	0.9611

***FIG. 6* (Continued)**

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chr19	361554	361588	5	0.9708	NaN	0.95107	0.9944	0.94812	0.91992	0.9406	0.9502	0.912
chr19	1090855	1090880	3	0.94119	0.8377	0.91739	0.796	0.92111	0.94553	0.78267	0.984	0.832
chr19	1155168	1155200	4	0.016	0.0748	0.00258	0.9665	0.019	0.9643	0.89775	0.957	0.95575
chr19	1155184	1155259	6	0.01302	0.029	0.00383	0.94317	0.02397	0.96207	0.869	0.96217	0.94767
chr19	1155187	1155259	5	0.01189	0.0172	0.00367	0.9318	0.02483	0.96228	0.8575	0.9576	0.9372
chr19	1155291	1155325	4	0.01613	0.078	0.00363	0.9455	0.03833	0.95955	0.87238	0.93	0.924
chr19	1423709	1423802	6	0.94938	0.3127	0.09156	0.97967	0.94772	0.97277	0.96875	0.98567	0.97717
chr19	1647509	1647575	5	0.94069	0.9572	0.9318	NaN	0.93003	0.029	0.1079	0.055	0.9654
chr19	1647516	1647624	8	0.94896	0.9348	0.94435	NaN	0.94004	0.03698	0.10881	0.051875	0.94288
chr19	1647547	1647624	7	0.94814	0.9254	0.95136	NaN	0.94283	0.0378	0.11564	0.046	0.93471
chr19	1647555	1647624	6	0.95112	0.9297	0.95367	0.08067	0.94389	0.03767	0.11508	0.044167	0.93183
chr19	1647572	1647624	5	0.94823	0.9298	0.9528	0.0468	0.9474	0.041	0.1037	0.038	0.9266
chr19	1647574	1647624	4	0.94925	0.923	0.95271	0.0585	0.9495	0.04665	0.10612	0.035	0.929
chr19	1647894	1647953	5	0.9598	0.9436	0.94337	0.0808	0.95707	0.0298	0.0903	0.0154	0.9812
chr19	1648277	1648423	10	0.96366	0.9597	0.94922	NaN	0.9547	0.05542	0.03905	0.0408	0.9611
chr19	1648350	1648423	8	0.96461	0.9633	0.95308	NaN	0.95646	0.0592	0.03963	0.051	0.95662
chr19	1648360	1648423	7	0.96757	0.9626	0.9576	NaN	0.95905	0.06111	0.03957	0.054143	0.96257
chr19	1648364	1648423	6	0.965	0.9698	0.95908	NaN	0.95686	0.06167	0.03908	0.047333	0.96017
chr19	1648373	1648423	5	0.96506	0.9696	0.95577	NaN	0.95417	0.05723	0.0404	0.0412	0.961
chr19	1648937	1648993	6	0.95283	0.9618	0.96778	0.024	0.94842	0.02033	0.06358	0.021833	0.97683
chr19	1648945	1648993	5	0.9494	0.9616	0.96433	0.0248	0.9489	0.02188	0.0682	0.0262	0.9778
chr19	1656098	1656132	3	0.93114	0.9483	0.95278	0.98467	0.94711	0.9648	0.94617	0.966	0.95233
chr19	1836793	1836880	6	0.95352	0.9058	0.93806	0.9445	0.95569	0.96127	0.94633	0.97433	0.97217
chr19	1836827	1836981	4	0.94471	0.5753	0.94304	0.94825	0.95363	0.9757	0.91975	0.975	0.9285
chr19	1882274	1882299	4	0.9635	0.954	0.96446	0.93175	0.94554	0.9773	0.85013	0.9885	0.009
chr19	2347992	2348056	6	0.98202	1	0.96428	0.94783	0.97167	0.97287	0.97242	0.98583	0.97233
chr19	2348309	2348418	9	0.97119	0.9836	0.97374	0.95711	0.97363	0.95756	0.97628	0.984	0.99244
chr19	2540652	2540716	6	0.94598	0.9342	0.93578	0.97617	0.95675	0.95902	0.94942	0.94183	0.96917
chr19	2540829	2540924	6	0.96457	0.9308	0.92814	0.97917	0.95589	0.97747	0.93908	0.97367	0.97283
chr19	2540921	2541019	8	0.97037	0.9533	0.95396	0.96475	0.96577	0.96732	0.95031	0.97487	0.96538

FIG. 6 **(Continued)**

chr19	2540932	2541019	7	0.97571	0.9731	0.97271	0.94789	0.98571	0.9834	0.97093	0.9731	0.969	0.979	0.95371	0.96229				
chr19	2541016	2541126	8	0.961	0.9715	0.97937	0.9465	0.96037	0.9639	0.96937	0.9646	0.9518	0.9578	0.93238	0.96181				
chr19	2622367	2622410	4	0.9805	0.9388	0.86338	0.9197	0.8885	0.8458	0.90375	0.847	0.8168	0.263	0.927	0.91612				
chr19	2623828	2623869	4	0.97225	0.9661	0.97081	0.97445	0.91225	0.9678	0.92388	0.9331	0.96	0.9551	0.9375	0.97233				
chr19	2775364	2775393	2	0.899	0.9327	0.956	0.12488	0.877	0.961	0.24525	0.942	0.927	0.9395	0.93575	0.5843				
chr19	2810897	2810970	5	0.9506	0.9804	0.96165	0.95552	0.9252	0.9638	0.9282	0.9794	0.931	0.9513	0.9457	0.96763				
chr19	3179253	3179368	9	0.00667	0.0095	0.00247	0.00929	0.00522	0	0.00761	0.0006	0.003	0.0072	0.00578	0.03183				
chr19	3179280	3179368	6	0.00217	0.0108	0.00371	0.0086	0.00233	0	0.00492	0.0009	0.0045	0.006	0.00508	0.02689				
chr19	3179513	3179536	5	0.0236	0.0065	0.0047	0.0058	0	0	0.0077	0	0.0064	0.0015	0.0092	0.04807				
chr19	3194553	3194591	3	0.982	0.9544	0.98717	0.952	0.96833	0.9383	0.97067	0.959	0.9683	0.9662	0.10517	0.96694				
chr19	3201342	3201381	2	0.921	0.9657	0.95025	0.2585	0.91	0.9135	0.63225	0.9293	0.9405	0.9075	0.9205	0.75375				
chr19	3548879	3548992	5	0.932	0.9485	0.93265	0.02211	0.9216	0.9618	0.1564	0.927	0.9818	0.9516	0.867	0.04533				
chr19	3685545	3685648	7	0.97057	0.9753	0.96375	0.97654	0.97286	0.9577	0.98657	0.9592	0.9401	0.9559	0.964	0.97554				
chr19	3690901	3690912	2	0.8835	0.9827	0.96338	0.7978	0.8415	0.8485	0.26175	0.9825	0.8345	0.789	0.933	0.90058				
chr19	4657966	4658072	5	0.9808	0.9699	0.93975	0.9478	0.9774	0.9524	0.8738	0.2076	0.973	0.8961	0.9585	0.96943				
chr19	4691586	4691601	2	0.866	0.9377	0.96225	0.2905	0.9645	0.975	0.39975	0.934	0.9335	0.9723	0.90125	0.2392				
chr19	6668968	6669098	4	0.97375	0.9359	0.81963	0.87815	0.192	0.0623	0.75913	0.2506	0.0703	0.0588	0.87963	0.87792				
chr19	6744920	6744970	7	0.97329	0.9806	0.96936	0.96394	0.95843	0.9657	0.96557	0.9742	0.9519	0.9741	0.94736	0.974				
chr19	8573822	8573838	2	0.875	0.9638	0.85288	0.0607	0.818	0.915	0.08525	0.0433	0.307	0.0418	0.88575	0.14683				
chr19	10167477	10167651	4	0.9705	0.9621	0.94469	0.9592	0.93225	0.9618	0.87888	0.1264	0.8863	0.8753	0.95262	0.97154				
chr19	10197359	10197421	5	0.964	0.9603	0.95405	0.96236	0.9912	0.9668	0.9723	0.9588	0.9792	0.9615	0.9464	0.96487				
chr19	10206409	10206451	2	0.938	0.965	0.96475	0.1368	0.9345	0.9615	0.2235	0.9358	0.925	0.892	0.90975	0.08075				
chr19	10273825	10273876	5	0.9068	0.9822	0.9651	0.88688	0.9614	0.9342	0.8383	0.8794	0.869	0.8981	0.8956	0.88777				
chr19	10334208	10334278	6	0.97067	0.9758	0.97867	0.95	0.98167	0.9667	0.96908	0.9753	0.9685	0.9707	0.95	0.96722				
chr19	10334519	10334575	5	0.965	0.9722	0.96555	0.92764	0.946	0.9928	0.9483	0.9582	0.9436	0.9716	0.8993	0.9593				
chr19	10334677	10334746	5	0.965	0.9772	0.96625	0.93928	0.9546	0.958	0.9673	0.9351	0.945	0.9657	0.88	0.9531				
chr19	11033536	11033568	4	0.9585	0.6838	0.837	0.9601	0.32925	0.7408	0.98037	0.944	0.4645	0.896	0.94075	0.95679				
chr19	11179143	11179242	5	0.9806	0.9642	0.9537	0.93292	0.9484	0.9348	0.9371	0.9455	0.9382	0.9189	0.9218	0.93917				
chr19	11179171	11179249	5	0.9954	0.9626	0.954	0.93672	0.9476	0.9418	0.9261	0.9545	0.9512	0.9306	0.9322	0.9537				
chr19	11562819	11562830	2	0.9545	0.98	0.95825	0.08108	0.9405	0.985	0.2155	0.92	0.9045	0.954	0.89925	0.0933				

FIG. 6 (Continued)

chr19	2540932	2541019	7	0.97376	0.9604	0.95857	0.96143	0.97026	0.96723	0.94886	0.97314	0.96529	
chr19	2541016	2541126	8	0.96471	0.9511	0.95931	0.94925	0.96835	0.9691	0.94262	0.97925	0.97537	
chr19	2622367	2622410	4	0.93371	0.8778	0.88288	0.2975	0.90521	0.91355	0.11987	0.9665	0.86525	
chr19	2623828	2623869	4	0.96979	0.9238	0.94883	0.05475	0.94996	0.01155	0.1785	0.017	0.949	
chr19	2775364	2775393	2	0.34474	0.838	0.84125	0.975	0.80175	0.9557	0.94575	0.973	0.949	
chr19	2810897	2810970	5	0.95571	0.9492	0.9617	0.3966	0.95867	0.18692	0.6342	0.1458	0.9756	
chr19	3179253	3179368	9	0.03916	0.0269	0.00059	0.014	0.00157	0.00402	0.01689	0.056444	0.00489	
chr19	3179280	3179368	6	0.04055	0.0293	0.00019	0.00783	0.0015	0.00333	0.014	0.052	0.00733	
chr19	3179513	3179536	5	0.0452	0	0.00027	0.0324	0.00047	0.00872	0.0301	0.045	0.0048	
chr19	3194553	3194591	3	0.97352	0.9373	0.96728	1	0.96589	0.97827	0.97933	0.98833	0.96467	
chr19	3201342	3201381	2	0.7772	0.9465	0.93817	0.913	0.95775	0.9564	0.733	0.9565	0.973	
chr19	3548879	3548992	5	0.05854	0.0056	0.00517	0.9482	0.06653	0.93972	0.896	0.9514	0.9468	
chr19	3685545	3685648	7	0.98512	0.9691	0.97241	0.95886	0.95756	0.96183	0.94329	0.97229	0.96171	
chr19	3690901	3690912	2	0.9195	0.8995	0.89533	0.9545	0.92658	0.9841	0.91425	0.9725	0.939	
chr19	4657966	4658072	5	0.96657	0.954	0.9629	0.9622	0.96803	0.97096	0.9282	0.9644	0.9638	
chr19	4691586	4691601	2	0.47725	0.7515	0.85008	0.9665	0.50629	0.9546	0.91525	1	1	
chr19	6668968	6669098	4	0.90561	0.8748	0.93783	0.9225	0.90596	0.95585	0.79675	0.9355	0.4365	
chr19	6744920	6744970	7	0.97335	0.9707	0.96412	0.96586	0.97629	0.97246	0.95407	0.96514	0.96614	
chr19	8573822	8573838	2	0.10579	0.0475	0.0325	0.85	0.08558	0.9571	0.46325	0.939	0.8675	
chr19	10167477	10167651	4	0.96029	0.9573	0.9715	0.77325	0.96821	0.94905	0.46988	0.981	0.90675	
chr19	10197359	10197421	5	0.95838	0.9586	0.96653	NaN	0.95847	0.8524	0.0865	0.9758	0.9688	
chr19	10206409	10206451	2	0.11086	0.941	0.94183	0.9195	0.91925	0.9745	0.88475	0.978	0.9265	
chr19	10273825	10273876	5	0.87006	0.9318	0.9491	0.8922	0.91433	0.9608	0.2222	0.9412	0.8932	
chr19	10334208	10334278	6	0.95931	0.9463	0.95478	0.96617	0.95842	0.97687	0.94575	0.96983	0.9615	
chr19	10334519	10334575	5	0.974	0.9268	0.96343	0.9482	0.97493	0.97348	0.9666	0.9708	0.954	
chr19	10334677	10334746	5	0.96451	0.9698	0.9566	0.9108	0.9663	0.96848	0.9292	0.9744	0.9548	
chr19	11033536	11033568	4	0.97136	0.9453	0.95246	0.967	0.95738	0.9725	0.96362	0.987	0.548	
chr19	11179143	11179242	5	0.93823	0.9384	0.94363	0.0804	0.9274	0.87744	0.0809	0.9366	0.9406	
chr19	11179171	11179249	5	0.93831	0.9468	0.9542	0.124	0.9325	0.89604	0.0955	0.961	0.9464	
chr19	11562819	11562830	2	0.06893	0.072	0.81317	0.893	0.66325	0.9245	0.916	0.9345	0.9785	

FIG. 6 **(Continued)**

chr19	11563778	11563826	3	0.80333	0.9601	0.97008	0.94487	1	0.9813	0.95533	0.9663	0.9603	0.9545	0.06967	0.94578				
chr19	11576718	11576817	5	0.9582	0.9675	0.97035	0.91524	0.9648	0.9656	0.962	0.9672	0.9614	0.9583	0.9225	0.94177				
chr19	12799899	12799975	5	0.9502	0.9811	0.96485	0.94672	0.9732	0.9466	0.9726	0.9552	0.9486	0.9631	0.2627	0.95787				
chr19	12887094	12887130	3	0.82967	0.97	0.98667	0.95327	0.95433	0.9477	0.97717	0.95	0.985	0.9715	0.15333	0.97333				
chr19	13209343	13209376	7	0.98343	0.9714	0.97971	0.95491	0.976	0.9803	0.93357	0.9731	0.952	0.9647	0.95871	0.96019				
chr19	13209355	13209376	5	0.9834	0.9729	0.9758	0.9512	0.97	0.9866	0.917	0.9709	0.953	0.9689	0.9584	0.95957				
chr19	13719934	13720026	5	0.7834	0.9768	0.9614	0.94796	0.9418	0.9736	0.9355	0.9547	0.9414	0.9447	0.1334	0.96647				
chr19	13719960	13720026	4	0.7655	0.9752	0.95763	0.9545	0.94	0.98	0.93063	0.956	0.932	0.9469	0.09175	0.96496				
chr19	15362590	15362621	5	0.975	0.9874	0.95795	0.96792	0.9752	0.9378	0.9844	0.9715	0.962	0.9678	0.9616	0.98013				
chr19	15388741	15388790	5	0.9534	0.9802	0.9753	0.9748	0.9014	0.9592	NaN	0.9579	0.9366	0.9109	0.9652	0.97693				
chr19	15457280	15457322	8	0.971	0.9707	0.97162	0.9658	0.97037	0.9709	0.9645	0.9835	0.9686	0.9923	0.97244	0.95781				
chr19	15457298	15457322	5	0.9708	0.9676	0.97305	0.96188	0.9696	0.979	0.9647	0.9776	0.9712	0.9956	0.9729	0.9561				
chr19	15457354	15457391	5	0.9682	0.9757	0.97205	0.95012	0.9462	0.9848	0.9384	0.9704	0.9852	0.9779	0.9573	0.97177				
chr19	15457388	15457437	5	0.962	0.9625	0.9595	0.94404	0.967	0.9628	0.9503	0.9569	0.99	0.9753	0.9432	0.97167				
chr19	15457446	15457462	5	0.9622	0.9676	0.9904	0.95236	0.9688	0.957	0.9719	0.9736	0.9948	0.9744	0.9713	0.9841				
chr19	15457517	15457542	5	0.9436	0.9522	0.9571	0.9588	0.9868	0.9836	0.9315	0.9404	0.9762	0.9896	0.9335	0.96423				
chr19	15457588	15457613	5	0.9588	0.938	0.9684	0.95496	0.9752	0.9722	0.9698	0.9807	0.986	0.9664	0.9719	0.97077				
chr19	16217518	16217541	2	0.9565	0.9168	0.21375	0.9589	0.9755	0.8865	0.9645	0.9383	0.975	0.897	0.9225	0.962				
chr19	16234903	16234956	3	0.93133	0.892	0.25967	0.86905	0.879	0.8893	0.87083	0.8613	0.8747	0.8767	0.85933	0.90244				
chr19	16302701	16302798	4	0.9	0.9789	0.9565	0.95375	0.961	0.9273	0.94588	0.9696	0.9195	0.9193	0.92913	0.95312				
chr19	16326987	16327008	4	0.9555	0.013	0.04194	0.93765	0.03375	0.0218	0.66375	0.0093	0.0215	0.0173	0.96962	0.95504				
chr19	16443640	16443848	8	0.96688	0.9745	0.95837	0.89645	0.96513	0.9439	0.88275	0.9725	0.9635	0.9553	0.93125	0.92277				
chr19	16443663	16443848	6	0.95583	0.973	0.95937	0.8812	0.95967	0.9408	0.86325	0.9723	0.9565	0.9535	0.92042	0.90536				
chr19	16838398	16838480	4	0.19	0.9689	0.97469	0.94295	0.94425	0.9703	0.95775	0.9383	0.9453	0.9526	0.87225	0.95863				
chr19	17132345	17132377	2	NaN	1	0.93467	0.56667	1	0.859	0.8285	0.8865	0.8	0.9523	1	0.76963				
chr19	17184788	17184820	3	0.913	0.3708	0.08658	0.92	0.34767	0.5947	0.8185	0	0.0747	0	0.884	0.93422				
chr19	17557639	17557760	4	0.93375	0.9724	0.90481	0.0017	0.89525	0.9245	0.12638	0.908	0.9555	0.9043	0.90487	0.02496				
chr19	18149539	18149576	6	0.97567	0.9648	0.9355	0.9414	0.95117	0.9773	0.88617	0.078	0.9335	0.7392	0.89625	0.96419				
chr19	18149549	18149576	5	0.9798	0.9644	0.94085	0.9436	0.9526	0.9786	0.8837	0.0765	0.932	0.7487	0.9087	0.9641				
chr19	18149552	18149576	4	0.9785	0.9596	0.94131	0.9371	0.9495	0.9733	0.87938	0.0645	0.9205	0.7533	0.89875	0.96067				

FIG. 6 (Continued)

chr19	11563778	11563826	3	0.95852	0.7517	0.96783	0.95867	0.95872	0.96953	0.97283	0.97	0.96067
chr19	11576718	11576817	5	0.93911	0.1422	0.9194	0.9398	0.943	0.97196	0.9484	0.973	0.9646
chr19	12799899	12799975	5	0.96803	0.935	0.9551	0.9428	0.96493	0.96456	0.9337	0.9874	0.946
chr19	12887094	12887130	3	0.96443	0.9903	0.95778	0.96467	0.97111	0.959	0.918	0.97833	0.943
chr19	13209343	13209376	7	0.95171	0.952	0.97002	0.00214	0.97072	0.05871	0.11	0.50529	0.981
chr19	13209355	13209376	5	0.9452	0.9554	0.96687	0.0016	0.96839	0.05396	0.0965	0.4744	0.9896
chr19	13719934	13720026	5	0.95574	0.9496	0.9515	0.9348	0.9628	0.97008	0.9343	0.9716	0.954
chr19	13719960	13720026	4	0.95407	0.9513	0.95108	0.9345	0.96233	0.96575	0.94362	0.977	0.94925
chr19	15362590	15362621	5	0.98143	0.9894	0.95979	0.9914	0.9872	0.98257	0.9923	0.9508	0.9778
chr19	15388741	15388790	5	0.97389	0.9596	0.93753	0.93	0.9538	0.98228	0.9384	0.9346	0.9634
chr19	15457280	15457322	8	0.97455	0.978	0.97092	0.98575	0.9799	0.98272	0.98519	0.97875	0.98687
chr19	15457298	15457322	5	0.9728	0.9686	0.9736	0.9796	0.97623	0.98256	0.9843	0.9858	0.9892
chr19	15457354	15457391	5	0.96137	0.9476	0.97813	0.9898	0.96163	0.98016	0.9882	0.9514	0.9848
chr19	15457388	15457437	5	0.96923	0.9878	0.9707	0.9786	0.96697	0.96312	0.9908	0.9652	0.9828
chr19	15457446	15457462	5	0.97583	0.9878	0.96613	0.993	0.97863	0.97992	0.9851	0.9804	0.9872
chr19	15457517	15457542	5	0.96823	0.9838	0.95073	0.9704	0.96287	0.98288	0.9838	0.978	0.9862
chr19	15457588	15457613	5	0.975	0.9932	0.9584	0.978	0.96623	0.97996	0.9902	0.9578	0.9916
chr19	16217518	16217541	2	0.97471	0.9555	0.97667	0.972	0.97217	0.9774	0.95025	0.964	0.9485
chr19	16234903	16234956	3	0.9051	0.5277	0.79022	0.91	0.87583	0.95253	0.935	0.99233	0.88667
chr19	16302701	16302798	4	0.94686	0.963	0.95058	0.105	0.94946	0.9401	0.12725	0.966	0.954
chr19	16326987	16327008	4	0.9685	0.9668	0.95587	0.00925	0.94404	0.1313	0.03438	0.905	0.0325
chr19	16443640	16443848	8	0.89946	0.9133	0.96225	NaN	0.91875	0.00989	0.11525	NaN	0.96763
chr19	16443663	16443848	6	0.88148	0.911	0.95858	NaN	0.901	0.00422	0.06383	0.42017	0.98317
chr19	16838398	16838480	4	0.94729	0.935	0.94212	0.95375	0.95121	0.9744	0.94863	0.97175	0.97
chr19	17132345	17132377	2	0.45625	0.75	0.82283	0.9	0.80997	0.93788	0.8045	0.9615	0.889
chr19	17184788	17184820	3	0.9471	0.9063	0.89328	0.57467	0.90983	0.93927	0.40983	0.931	0.72633
chr19	17557639	17557760	4	0.03188	NaN	0.01046	0.8845	0.02567	0.93295	0.9145	0.97375	0.95725
chr19	18149539	18149576	6	0.93555	0.8942	0.95064	0.9705	0.95183	0.97593	0.95692	0.9765	0.95783
chr19	18149549	18149576	5	0.93843	0.8976	0.953	0.9694	0.9522	0.97572	0.9566	0.9818	0.9546
chr19	18149552	18149576	4	0.93539	0.8763	0.947	0.97425	0.94833	0.9756	0.94575	0.9865	0.94325

FIG. 6 **(Continued)**

chr19	18504372	18504377	2	0.95	0.9602	0.9605	0.8512	0.8935	0.944	0.71175	0.9553	0.877	0.9528	0.94675	0.18746		
chr19	18839153	18839218	3	0.979	0.9572	0.877	0.9578	NaN	NaN	0.93067	0.8637	0.2047	0.2002	0.985	0.96117		
chr19	21745666	21745714	6	0.96933	0.9889	0.97376	0.97877	0.9465	0.9872	0.9855	0.9458	0.9858	0.9688	0.95292	0.94664		
chr19	32490738	32490801	5	1	0.9867	0.94953	0.9536	1	0.9652	0.9774	0.9685	1	0.9689	0.862	0.95733		
chr19	32977449	32977459	2	0.873	0.9812	0.94162	0.1364	0.936	0.9445	0.543	0.9633	0.973	0.9795	0.8235	0.348		
chr19	34350532	34350646	5	0.9678	0.0202	0.02865	0.94888	0	0.0156	0.8588	0.0431	0.0066	0.0245	0.9642	0.96767		
chr19	35354998	35355098	6	0.92967	0.9578	0.89987	0.91133	0.8795	0.8518	0.85167	0.2805	0.7462	0.3518	0.91975	0.93325		
chr19	36069842	36069872	6	0.93517	0.9654	0.91279	0.93633	0.93717	0.9722	0.97917	0.9108	0.902	0.9727	0.95208	0.9605		
chr19	36278836	36278910	6	NaN	0.9861	0.96963	0.96148	0.93783	0.9762	0.92325	0.9629	0.9667	0.9761	0.96267	0.98368		
chr19	36278887	36278929	5	NaN	0.9865	0.9713	0.96484	0.974	0.9516	0.9565	0.9723	0.9584	0.974	0.9375	0.98205		
chr19	36282388	36282423	5	1	0.9863	0.97043	0.99224	0.98	0.95	0.9745	0.9807	1	0.9841	0.9551	0.97335		
chr19	36292649	36292703	5	0.9724	0.9629	0.96325	0.96044	0.9358	0.9324	0.9607	0.955	0.9122	0.9463	0.889	0.95427		
chr19	36292830	36292906	6	0.93883	0.9679	0.96446	0.9437	0.95333	0.9508	0.96008	0.9602	0.9488	0.9569	0.90508	0.95678		
chr19	36294253	36294277	5	0.879	0.9596	0.9879	0.9311	0.9732	0.9334	0.9802	1	1	0.9877	0.9464	0.97065		
chr19	36294723	36294889	12	0.92575	0.9636	0.96517	0.942	0.96517	0.9857	0.96629	0.9531	0.9678	0.9732	0.8925	0.95829		
chr19	36294735	36294782	5	0.9542	0.9742	0.9739	0.95867	0.9706	0.9904	0.9583	0.9769	0.96	0.9733	0.9411	0.97487		
chr19	36300101	36300145	5	0.9338	0.9776	0.98287	0.97568	0.973	0.9858	0.9713	0.9894	0.9616	0.9919	0.9336	0.96683		
chr19	36304764	36304805	7	0.96343	0.9815	0.965	0.9336	0.96357	0.955	0.9765	0.9623	0.9594	0.9554	0.93393	0.95102		
chr19	36304792	36304861	7	0.95614	0.9646	0.96032	0.93323	0.96086	0.9627	0.96929	0.9575	0.9684	0.957	0.93621	0.95433		
chr19	36306485	36306528	6	0.95683	0.9749	0.93889	0.97447	0.972	0.9723	0.95208	0.9233	0.951	0.9465	0.94525	0.97383		
chr19	37281325	37281407	5	0.9528	0.9782	0.98242	0.95096	0.9422	0.9488	0.9654	0.9413	0.9424	0.9768	0.8604	0.95123		
chr19	37281355	37281424	7	0.95686	0.9857	0.9945	0.98183	0.945	0.985	0.95243	0.9391	0.9431	0.9818	0.89364	0.95576		
chr19	37281367	37281424	6	0.94967	0.9878	0.99358	0.98483	0.9415	1	0.94625	0.9496	0.9488	0.9823	0.91192	0.95728		
chr19	37281411	37281444	6	0.94033	0.9843	0.98829	0.96723	0.96817	0.9897	0.94617	0.9444	0.952	0.9849	0.91058	0.94953		
chr19	37281415	37281444	5	0.9466	0.9833	0.9889	0.96488	0.9654	0.9876	0.947	0.9403	0.9502	0.998	0.906	0.94483		
chr19	37294395	37294419	4	0.74425	0.9482	0.96056	0.93225	0.9435	0.961	0.94112	0.9011	1	0.9804	0.9345	0.93167		
chr19	37298506	37298548	5	0.8494	0.9788	0.9772	0.976	0.9742	0.9722	0.9737	0.9715	0.9776	0.9709	0.9679	0.96627		
chr19	37298635	37298693	6	NaN	0.9641	0.95325	0.91497	0.982	0.9492	0.958	0.9395	0.978	0.9638	0.94017	0.95447		
chr19	38860721	38860817	5	0.968	0.9804	0.97645	0.93912	0.9182	0.9252	0.9689	0.9591	0.9216	0.9484	0.9314	0.9623		
chr19	38928284	38928358	6	0.9445	0.9706	0.9445	0.93823	0.95567	0.9443	0.89325	0.172	0.7888	0.637	0.96267	0.94817		

FIG. 6 (Continued)

chr19	18504372	18504377	2	0.16525	0.9045	0.7525	0.9565	0.87117	0.9676	0.90475	0.931	0.908	
chr19	18839153	18839218	3	0.95352	0.9557	0.947	0.28067	0.9515	0.89007	0.118	0.979	0.59267	
chr19	21745666	21745714	6	0.96694	0.952	0.98167	0.969	0.9715	0.97797	0.97642	0.99117	NaN	
chr19	32490738	32490801	5	0.95575	0.9834	0.9752	1	0.9605	0.98624	0.9467	0.9548	0.9818	
chr19	32977449	32977459	2	0.12021	0.013	0.09208	0.9645	0.11583	0.9341	0.9395	0.818	0.975	
chr19	34350532	34350646	5	0.95883	0.9664	0.9544	0.7094	0.93153	0.74968	0.592	0.756	0.0132	
chr19	35354998	35355098	6	0.92521	0.1407	0.92481	0.81517	0.91222	0.94877	0.52242	0.9745	0.86367	
chr19	36069842	36069872	6	0.959	0.9753	0.94732	0.9595	0.95536	0.97163	0.98242	0.96567	0.947	
chr19	36278836	36278910	6	0.98025	1	0.97653	0.97417	0.97531	0.95523	0.95842	0.947	0.977	
chr19	36278887	36278929	5	0.98249	1	0.96673	0.961	0.97133	0.952	0.9698	0.9698	0.9658	
chr19	36282388	36282423	5	0.95755	0.9644	0.98331	0.9852	0.97931	0.99107	0.9671	0.9816	0.975	
chr19	36292649	36292703	5	0.95529	0.9274	0.94285	0.9686	0.94293	0.95516	0.945	0.967	NaN	
chr19	36292830	36292906	6	0.95329	0.948	0.949	0.959	0.95472	0.96213	0.93758	0.904	0.9565	
chr19	36294253	36294277	5	0.96617	0.9632	0.97427	0.9878	0.99393	0.9574	0.8998	0.994	0.9814	
chr19	36294723	36294889	12	0.96596	0.9752	0.97038	0.95408	0.95519	0.96983	0.98108	0.96208	0.9585	
chr19	36294735	36294782	5	0.97477	0.9654	0.97	0.971	0.96933	0.97844	1	0.965	0.9778	
chr19	36300101	36300145	5	0.97386	0.9532	0.9628	0.9802	0.97263	0.96844	0.9766	0.985	0.9844	
chr19	36304764	36304805	7	0.95696	0.952	0.9495	0.96571	0.9566	0.95891	0.96307	0.94843	0.975	
chr19	36304792	36304861	7	0.95739	0.9747	0.96326	0.94186	0.95874	0.97	0.94471	0.958	0.97414	
chr19	36306485	36306528	6	0.96442	0.919	0.95417	0.96367	0.95828	0.9745	0.9655	0.95617	0.97117	
chr19	37281325	37281407	5	0.96309	0.9278	0.96243	0.9168	0.94963	0.92336	0.969	0.8484	0.9158	
chr19	37281355	37281424	7	0.9559	0.9324	0.96174	0.93214	0.97081	0.91663	0.9485	0.87657	0.966	
chr19	37281367	37281424	6	0.95219	0.9413	0.96497	0.92083	0.9745	0.9163	0.93992	0.8945	0.9795	
chr19	37281411	37281444	6	0.9534	0.9577	0.96808	0.948	0.96625	0.9172	0.942	0.92683	0.98633	
chr19	37281415	37281444	5	0.95623	0.9714	0.97153	0.9582	0.964	0.91956	0.959	0.9304	0.9836	
chr19	37294395	37294419	4	0.91846	0.9528	0.95479	0.94175	0.93433	0.9257	0.95975	0.39975	0.97725	
chr19	37298506	37298548	5	0.97534	0.9554	0.97153	0.9738	0.96847	0.97576	0.9514	0.9678	0.9796	
chr19	37298635	37298693	6	0.94686	0.97	0.95025	0.86967	0.93611	0.95503	0.94308	0.95717	0.962	
chr19	38860721	38860817	5	0.98629	0.9682	0.94539	0.0484	0.95073	0.84848	0.1646	0.8786	0.9698	
chr19	38928284	38928358	6	0.97698	0.965	0.96566	0.96333	0.94064	0.96551	0.97233	0.9555	0.95317	

FIG. 6 **(Continued)**

chr19	38928287	38928358	5	0.9734	0.974	0.94055	0.93804	0.9776	0.9474	0.8874	0.168	0.7752	0.6331	0.9592	0.94153
chr19	40273068	40273111	3	0.94733	0.9543	0.96525	0.94027	0.95833	0.9303	0.94817	0.9488	0.9837	0.9698	0.194	0.95411
chr19	40360920	40360947	3	0.95267	0.9804	0.97992	0.04333	0.97733	0.941	NaN	0.972	0.9777	0.9665	0.90033	0.04889
chr19	40361031	40361142	5	0.9318	0.9731	0.94405	0.03291	0.9458	0.955	0.1928	0.9268	0.9196	0.953	0.8901	0.02683
chr19	40361096	40361215	5	0.9236	0.9751	0.94065	0.01855	0.9236	0.938	0.1799	0.9246	0.9328	0.94	0.8471	0.02407
chr19	43688514	43688575	5	0.9262	0.9324	0.90675	0.08772	0.8926	0.9206	0.2827	0.9014	0.8848	0.8352	0.8455	0.04207
chr19	45137565	45137640	6	0.96917	0.9738	0.97488	0.9646	0.96967	0.9853	0.97683	0.9702	0.9807	0.9563	0.96675	0.97675
chr19	46734000	46734083	5	0.9462	0.9785	0.92535	0.02464	0.9684	0.9512	0.2084	0.9308	0.9608	0.9543	0.9476	0.02757
chr19	48753905	48753914	3	0.93267	0.8448	0.82933	0.88107	0.36867	0.8437	0.85067	0.9137	0.2453	0.849	0.72167	0.89906
chr19	48891309	48891409	5	0.9532	0.9638	0.95925	0.92784	0.9026	0.8392	0.9307	0.9513	0.916	0.8998	0.9182	0.94893
chr19	49326025	49326120	5	0.9194	0.9689	0.93763	0.91376	0.9228	0.9754	0.9115	0.9593	0.962	0.9264	0.8512	0.91749
chr19	49498005	49498110	4	0.90975	0.7814	0.82913	0.9509	0.41975	0.1953	0.96738	0.941	0.331	0.4865	0.94488	0.95637
chr19	49520822	49520833	2	0.929	0.9617	0.93562	0.8449	0.944	0.95	0.9245	0.9605	0.9345	0.905	0.882	0.08125
chr19	49908278	49908370	6	0.964	0.9726	0.97092	0.95803	0.9375	0.9717	0.97267	0.9522	0.947	0.968	0.95842	0.96311
chr19	51371798	51371808	2	0.981	0.982	0.8435	0.8869	0.987	0.772	0.8465	0.031	0.8685	0.0695	0.88325	0.93342
chr19	51372120	51372133	3	0.98433	0.9629	0.85433	0.9102	0.982	0.7637	0.8105	0.0882	0.8093	0.0585	0.95967	0.92728
chr19	51372128	51372133	2	0.9835	0.9638	0.84275	0.9026	0.9795	0.79	0.79475	0.0673	0.8045	0.0445	0.96525	0.91417
chr19	51738747	51738760	2	0.9545	0.9612	0.95913	0.2119	0.88	0.959	0.305	0.9268	0.956	0.921	0.89625	0.17795
chr19	52820241	52820340	8	0.9725	0.9965	0.9785	0.9666	0.9805	0.9948	0.99375	0.9801	0.9955	0.9778	0.94575	0.97892
chr19	52820261	52820309	6	0.96967	0.9954	0.98133	0.973	0.9815	1	1	0.9833	1	0.9756	0.9505	0.98136
chr19	55228723	55228765	3	0.93767	0.9707	0.97333	0.9566	0.97333	0.9507	0.97067	0.9668	0.975	0.9498	0.09	0.94728
chr19	55326854	55326910	6	0.946	0.9672	0.92567	0.01023	0.9575	0.901	0.18617	0.9343	0.9387	0.9359	0.93992	0.00989
chr19	55326860	55326910	5	0.9436	0.9661	0.9276	0.0106	0.9582	0.8978	0.1869	0.95	0.9576	0.9417	0.947	0.0106
chr19	55626530	55626659	6	0.93583	0.1912	0.11092	0.9512	0	0.0098	0.90058	0.7174	0	0.0638	0.914	0.95422
chr19	56104135	56104162	5	0.9784	0.9666	0.9759	0.94584	0.9646	1	0.9297	0.9917	0.9752	0.9628	0.9639	0.97992
chr20	2887841	2887917	2	0.932	0.9747	0.9535	0.0361	0.958	0.989	0.174	0.9385	0.95	0.9613	0.8925	0.1685
chr20	3019918	3019946	5	0.974	0.9848	0.9841	0.9788	0.9786	1	0.9893	0.9857	0.9746	0.9796	0.9854	0.9918
chr20	4052580	4052613	2	1	0.9883	0.983	0.17825	0.941	1	0.53675	0.9805	0.9545	0.9515	0.95	0.76192
chr20	5594492	5594589	5	0.965	0.9496	0.96115	0.93868	0.8614	0.9612	0.9385	0.9338	0.9686	0.9457	0.961	0.96877
chr20	11458529	11458562	4	0.969	0.986	0.97219	0.89555	0.966	1	0.95962	0.9603	0.9235	0.9389	0.96062	0.95733

***FIG. 6* (Continued)**

SUBSTITUTE SHEET (RULE 26)

chr19	38928287	38928358	5	0.97429	0.958	0.96507	0.9742	0.948	0.96589	0.9668	0.9466	0.9652		
chr19	40273068	40273111	3	0.95757	0.1157	0.93939	0.91933	0.95483	0.96527	0.97867	0.95633	0.93567		
chr19	40360920	40360947	3	0.03744	NaN	0.81456	0.972	0.5696	0.97993	0.9285	0.97	0.95867		
chr19	40361031	40361142	5	0.04618	0.26	0.30837	0.9522	0.09727	0.97136	0.9123	0.9616	0.9512		
chr19	40361096	40361215	5	0.03012	NaN	0.01665	0.9356	0.03429	0.95508	0.9054	0.9486	0.929		
chr19	43688514	43688575	5	0.07114	0.1064	0.04217	0.9184	0.09257	0.96916	0.7719	0.9672	0.9334		
chr19	45137565	45137640	6	0.97336	0.9648	0.97833	0.11967	0.97544	0.86013	0.11417	0.98517	0.9655		
chr19	46734000	46734083	5	0.02891	0	0.01177	0.9218	0.0407	0.9516	0.9208	0.9714	0.9608		
chr19	48753905	48753914	3	0.87138	0.9783	0.88456	0.93533	0.88767	0.91827	0.879	0.875	0.66		
chr19	48891309	48891409	5	0.93003	0.9688	0.94876	NaN	0.9402	0.92768	0.1248	0.979	0.9246		
chr19	49326025	49326120	5	0.92697	0.947	0.95003	NaN	0.91937	0.26659	0.0809	0.8822	0.9428		
chr19	49498005	49498110	4	0.95057	0.9495	0.96042	0.8375	0.95725	0.9709	0.37762	0.984	0.70325		
chr19	49520822	49520833	2	0.10986	0.9015	0.83283	0.9015	0.89983	0.9643	0.742	0.9555	0.9165		
chr19	49908278	49908370	6	0.96833	0.963	0.96919	0.89183	0.96581	0.95803	0.30058	0.977	0.97367		
chr19	51371798	51371808	2	0.9255	0.9355	0.82067	0.95	0.91742	0.9499	0.873	0.964	0.973		
chr19	51372120	51372133	3	0.93538	0.9643	0.83306	0.96167	0.91772	0.95867	0.94933	0.97667	0.97733		
chr19	51372128	51372133	2	0.92307	0.9545	0.80475	0.958	0.90758	0.9456	0.929	0.965	0.978		
chr19	51738747	51738760	2	0.43767	0.8695	0.41827	0.9655	0.289	0.9424	0.9375	0.9555	0.984		
chr19	52820241	52820340	8	0.97971	0.9965	0.96788	NaN	0.9773	0.97949	0.96562	0.988	0.98638		
chr19	52820261	52820309	6	0.9799	1	0.97725	NaN	0.97614	0.9829	0.975	0.99283	0.98883		
chr19	55228723	55228765	3	0.96986	0.958	0.97244	0.97567	0.95628	0.9624	0.93867	0.97467	0.95433		
chr19	55326854	55326910	6	0.01617	0.6073	0.05453	0.9415	0.02572	0.9541	0.89367	0.9415	0.942		
chr19	55326860	55326910	5	0.018	0.7264	0.06463	0.9446	0.02877	0.95884	0.9006	0.9362	0.9498		
chr19	55626530	55626659	6	0.9576	0.9243	0.93611	0.87733	0.94567	0.9666	0.37792	0.96317	0.0995		
chr19	56104135	56104162	5	0.95486	0.9882	0.96067	0.9166	0.99173	0.96412	1	0.9778	0.937		
chr20	2887841	2887917	2	0.26636	0.7515	0.79025	0.9245	0.7995	0.9529	0.90175	0.972	0.9685		
chr20	3019918	3019946	5	0.9832	0.976	0.96573	0.9692	0.98483	0.98188	0.9469	0.9544	0.9914		
chr20	4052580	4052613	2	0.76557	0.932	0.95625	0.9555	0.95233	0.9592	0.92575	0.9725	0.9515		
chr20	5594492	5594589	5	0.97311	0.9652	0.95323	0.0834	0.95993	0.89716	0.0968	0.9584	0.9328		
chr20	11458529	11458562	4	0.93118	0.1845	0.87212	0.974	0.92038	0.93045	0.83537	0.3615	0.938		

FIG. 6 **(Continued)**

chr20	16392579	16392650	5	0.9498	0.9763	0.9716	0.91448	0.9744	0.97	0.9527	0.9519	0.9454	0.9512	0.9192	0.96523
chr20	19475063	19475106	5	0.9894	0.9918	0.95195	0.94436	0.922	0.9636	0.8717	0.2016	0.9576	0.9454	0.8989	0.96
chr20	19475065	19475106	4	0.98675	0.9931	0.95181	0.9435	0.9025	0.9545	0.87013	0.1548	0.956	0.9465	0.89812	0.95363
chr20	19975223	19975265	5	0.8532	0.9478	0.84845	0.0012	0.914	0.9202	0.1287	0.9418	0.907	0.8854	0.8798	0.0095
chr20	19975286	19975344	5	0.8932	0.9385	0.8353	0.00916	0.9382	0.9208	0.1346	0.9256	0.9428	0.8846	0.91	0.00847
chr20	20464067	20464297	6	0.951	0.9632	0.97138	0.90073	0.94467	0.9765	0.95575	0.9608	0.9272	0.9673	0.927	0.95806
chr20	20464072	20464297	5	0.9412	0.9689	0.9712	0.90232	0.9454	0.9768	0.9523	0.9599	0.9224	0.973	0.9207	0.96417
chr20	20487564	20487586	2	1	0.9607	0.96962	0.93673	1	0.7945	0.95225	1	0.5915	0.9645	0.85825	0.97033
chr20	25015009	25015042	5	0.9378	0.9696	0.9675	0.9578	0.9798	0.9656	0.9473	0.9635	0.97	0.9864	0.9574	0.96547
chr20	25015017	25015042	4	0.9295	0.9631	0.96469	0.95415	0.97475	0.9648	0.953	0.9626	0.9715	0.983	0.95488	0.96508
chr20	25630356	25630433	3	0.954	0.9642	0.88683	0.90293	0.21367	0.0547	0.91467	0.898	0.176	0.2202	0.92717	0.95406
chr20	35514244	35514456	3	0.948	0.9558	0.97575	0.944	0.943	0.945	0.97367	0.9657	0.9483	0.9433	0.12433	0.92917
chr20	36002214	36002264	5	0.9906	0.9819	0.98225	0.96756	0.9924	0.9758	0.9834	0.9763	0.9546	0.9522	0.9408	0.98219
chr20	36645562	36645616	5	0.9344	0.1713	0.07827	0.91192	0.0342	0.0068	0.9224	0.6616	0.1328	0.0757	0.9156	0.96543
chr20	37383595	37383615	3	0.74167	0.9767	0.94017	0.00267	0.83833	0.9347	0.306	0.9368	0.7637	0.8748	0.82433	0.10494
chr20	37990716	37990767	3	NaN	0.6213	0.20583	0	0.61933	0.2833	0	0.0138	0.2773	0.0583	0.21333	0.02892
chr20	44237739	44237797	6	0.97983	0.9637	0.95721	0.96249	0.885	1	0.965	0.9669	0.9665	0.9206	0.97	0.96475
chr20	44666991	44667039	5	0.9592	0.9523	0.96925	0.96672	0.9692	0.942	0.9516	0.9717	0.9256	0.9301	0.9062	0.95981
chr20	44968159	44968208	4	0.73725	0	0.01644	0.02401	0	0	0.01888	0.0251	0	0.0044	0.87688	0.01242
chr20	46389003	46389020	2	0.919	0.9698	0.97637	0.8416	0.9765	0.974	0.7395	0.9615	1	1	0.97025	0.32075
chr20	49282959	49283005	3	0.91667	0.9618	0.875	0.94853	0.51967	0.2747	0.94817	0.9272	0.244	0.1408	0.92567	0.94483
chr20	49866079	49866271	6	0.944	0.9701	0.964	0.95763	0.96683	0.9338	0.95617	0.9499	0.7473	0.7634	0.94817	0.96053
chr20	49958422	49958441	4	0.96275	0.9295	0.87825	0.9409	0.79875	0.6115	0.9795	0.9124	0.5615	0.1694	0.93087	0.97146
chr20	50582750	50582818	9	0.97411	0.9796	0.98069	0.94733	0.94778	0.9761	0.93278	0.9628	0.9636	0.9658	0.96156	0.95022
chr20	50582760	50582818	8	0.97262	0.9777	0.98322	0.9451	0.94625	0.9731	0.93062	0.9674	0.9635	0.9684	0.96425	0.94835
chr20	50582771	50582818	7	0.97086	0.9765	0.98182	0.94374	0.95314	0.9693	0.93007	0.9684	0.9651	0.9683	0.96436	0.94705
chr20	50582791	50582818	5	0.9818	0.98	0.98495	0.94404	0.9634	0.9712	0.9462	0.9764	0.9708	0.9696	0.9645	0.94523
chr20	50810615	50810655	5	0.9762	0.9569	0.841	0.93524	0.9332	0.956	0.874	0.9191	0.9606	0.948	0.9363	0.96817
chr20	50819431	50819678	8	0.961	0.9725	0.97159	0.94565	0.97938	0.9819	0.95556	0.9477	0.9474	0.9782	0.93906	0.96675
chr20	50819453	50819678	7	0.961	0.9732	0.97025	0.94191	0.98057	0.9819	0.9545	0.9477	0.9457	0.9761	0.93779	0.96764

***FIG. 6* (Continued)**

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chr20	16392579	16392650	5	0.96709	0.9488	0.9591	0.0012	0.949	0.01124	0.1831	0.65	0.9744	
chr20	19475063	19475106	5	0.96751	0.9624	0.96274	0.8964	0.95567	0.96044	0.8844	0.9704	0.9384	
chr20	19475065	19475106	4	0.96386	0.953	0.96072	0.9005	0.95675	0.95405	0.87462	0.963	0.935	
chr20	19975223	19975265	5	0.01234	0.2224	0.0037	0.8588	0.0266	0.91236	0.7878	0.87	0.9224	
chr20	19975286	19975344	5	0.01051	0.3326	0.0054	0.882	0.02604	0.91268	0.8161	0.9028	0.9494	
chr20	20464067	20464297	6	0.94864	0.9383	0.96122	NaN	0.94819	0.22538	0.21367	0.898	0.9775	
chr20	20464072	20464297	5	0.95617	0.9636	0.96487	NaN	0.95303	0.21926	0.2322	0.9006	0.9788	
chr20	20487564	20487586	2	0.98636	1	0.97217	0.9165	0.97733	0.9883	0.83325	1	0.95	
chr20	25015009	25015042	5	0.96894	0.971	0.96673	0.9234	0.9752	0.94704	0.1475	0.9744	0.9838	
chr20	25015017	25015042	4	0.96779	0.9675	0.96788	0.9135	0.97442	0.95045	0.12188	0.97525	0.99	
chr20	25630356	25630433	3	0.95516	0.9593	0.95271	0.86267	0.91391	0.96487	0.28367	0.97	0.47567	
chr20	35514244	35514456	3	0.96557	0.9253	0.94978	0.97467	0.94961	0.96467	0.89267	0.97433	0.935	
chr20	36002214	36002264	5	0.97526	1	0.95765	0.9582	0.9553	0.96044	0.9272	0.9672	0.9732	
chr20	36645562	36645616	5	0.94997	0.92	0.95388	0.952	0.94468	0.98228	0.9471	0.9882	0.2622	
chr20	37383595	37383615	3	0.09533	0.845	0.89361	0.38667	0.82306	0.87587	0.37333	0.977	0.76367	
chr20	37990716	37990767	3	0.02389	0	0.01406	0	0.00622	0.012	0.03983	0.008333	0.53867	
chr20	44237739	44237797	6	0.96333	0.977	0.95511	0.977	0.93697	0.9646	0.903	0.9395	0.94267	
chr20	44666991	44667039	5	0.94817	0.9734	0.9613	0.8698	0.9609	0.95364	0.8255	0.9878	0.9798	
chr20	44968159	44968208	4	0.02557	0.0433	0.11588	0	0.04254	0.44435	0.015	0.96	0	
chr20	46389003	46389020	2	0.33571	0.961	0.955	0.9345	0.952	0.9767	0.8835	0.9445	0.973	
chr20	49282959	49283005	3	0.93719	0.9837	0.94189	0.185	0.94622	0.9164	0.08933	0.95833	0.793	
chr20	49866079	49866271	6	0.95162	0.8945	0.94525	0.96283	0.95572	0.98013	0.21125	0.97283	0.90083	
chr20	49958422	49958441	4	0.96629	0.9738	0.96138	0.9415	0.96021	0.93754	0.21238	0.9605	0.506	
chr20	50582750	50582818	9	0.9733	0.9333	0.95969	NaN	0.96319	0.04306	0.15789	0.96922	0.95811	
chr20	50582760	50582818	8	0.97313	0.9319	0.9576	0.0065	0.96225	0.04031	0.15075	0.96888	0.95825	
chr20	50582771	50582818	7	0.97731	0.929	0.95945	0.006	0.96179	0.0415	0.15586	0.97257	0.95571	
chr20	50582791	50582818	5	0.97991	0.946	0.96597	0.0084	0.96837	0.05	0.1566	0.9842	0.9612	
chr20	50810615	50810655	5	0.96351	0.9558	0.95563	0.033	0.95257	0.11081	0.0679	0.0636	0.9354	
chr20	50819431	50819678	8	0.95989	0.9766	0.96808	NaN	0.97008	0.02379	0.10994	0.005875	0.96087	
chr20	50819453	50819678	7	0.95953	0.9733	0.96569	NaN	0.96986	0.02376	0.10021	0.004	0.96086	

FIG. 6 **(Continued)**

chr20	50819459	50819678	6	0.9545	0.9733	0.97	0.93787	0.98	0.9848	0.95325	0.95	0.9475	0.9812	0.93825	0.96639
chr20	50819527	50819678	5	0.9502	0.9769	0.967	0.93448	0.9794	0.9818	0.9479	0.9517	0.9424	0.9859	0.9408	0.96353
chr20	51424407	51424459	4	1	0.9442	0.84975	0.94185	0.35775	0.2983	0.92087	0.8493	0.0673	0.0868	0.95837	0.96067
chr20	51424450	51424459	3	1	0.9421	0.85508	0.94707	0.34867	0.262	0.90633	0.8518	0.042	0.0713	0.95733	0.96594
chr20	51508378	51508411	5	0.955	0.961	0.946	0.97212	0.9708	0.9758	0.9065	0.1462	0.971	0.9156	0.9299	0.96927
chr20	51508393	51508411	4	0.978	0.9593	0.94687	0.9745	0.968	0.9933	0.91263	0.1463	0.9685	0.9185	0.93088	0.97246
chr20	53894053	53894100	5	0.9642	0.9738	0.9788	0.93468	0.9718	0.979	0.8913	0.8916	0.975	0.9496	0.9408	0.92513
chr20	56520803	56520830	2	0.8195	0.9933	0.97588	0.9867	1	0.4735	0.98575	0.9625	NaN	0.9613	0.9615	0.96158
chr20	57431129	57431212	5	0.926	0.9715	0.9725	0.03128	0.9624	0.9816	0.1948	0.9519	0.9564	0.9655	0.9261	0.08437
chr20	58692257	58692303	4	0.873	0.9638	0.95094	0.02165	0.862	0.9678	0.0705	0.9339	0.9488	0.9228	0.96687	0.03121
chr20	62201572	62201663	7	0.97257	0.9723	0.94893	0.95723	0.95214	0.9823	0.9375	0.9787	0.969	0.9528	0.9695	0.9608
chr20	62201601	62201663	5	0.9682	0.9679	0.9444	0.9552	0.947	0.9752	0.9301	0.9758	0.963	0.9444	0.9679	0.95316
chr20	62292318	62292418	4	0.98075	0.9731	0.81556	0.9286	0.9035	0.7385	0.91387	0.0304	0.368	0.139	0.9525	0.95846
chr20	62292398	62292418	3	1	0.9733	0.83617	0.93133	0.88733	0.7513	0.909	0.0297	0.4193	0.1122	0.9495	0.96139
chr20	62292410	62292418	2	1	0.9752	0.86138	0.9305	0.926	0.7975	0.91825	0.0308	0.4425	0.1155	0.95725	0.94942
chr20	62798455	62798461	2	0.962	0.9417	0.958	0.2274	0.937	0.949	0.541	0.959	0.9785	0.9718	0.92025	0.77075
chr20	63730702	63730763	5	0.9248	0.0126	0.00888	0.03471	0	0	0.0108	0.0424	0	0.0108	0.7973	0.06722
chr20	63730716	63730763	4	0.92875	0.0134	0.00869	0.03494	0	0	0.00675	0.0305	0	0.0135	0.7845	0.06978
chr20	63906521	63906582	4	0.92875	0.9736	0.9345	0.89915	0.991	0.955	0.899	0.968	0.9628	0.9836	0.9275	0.90538
chr20	64087424	64087532	10	0.9929	0.984	0.97378	0.97808	0.9687	0.9621	0.9855	0.9687	0.9952	0.9736	0.94945	0.97981
chr20	64087449	64087532	9	1	0.9822	0.97894	0.97756	0.96522	0.9579	0.98389	0.9732	0.9947	0.9776	0.9515	0.97899
chr21	16025919	16025941	2	0.875	0.9583	0.91246	0.8876	0.452	0.8895	0.95825	0.9143	0.923	0.853	1	0.91808
chr21	31180007	31180064	4	0.8965	0.8976	0.96625	0.9498	0.28975	0.4753	0.96463	0.9508	0.702	0.8965	0.78163	0.95358
chr21	31182973	31182981	2	0.9585	0.5443	0.90837	0.9445	0.024	0.101	0.97875	0.9505	0.2355	0.8788	0.91275	0.96192
chr21	32407914	32407923	2	1	0.7807	0.259	0.9397	1	0.8105	0.90475	0.0235	0.521	0.0863	0.88775	0.97158
chr21	32929488	32929538	3	0.9	0.9864	0.87567	0.89997	0.60033	0.777	0.82717	0.0445	0.3083	0.0695	0.89583	0.93194
chr21	33223061	33223109	6	1	0.9889	0.98899	0.97035	1	0.9882	0.98383	0.9968	0.9762	0.9629	0.95933	0.96407
chr21	33296290	33296397	5	0.9664	0.9683	0.95145	0.94604	0.9506	0.9824	0.9364	0.9403	0.9608	0.95	0.9279	0.97353
chr21	33554814	33554829	3	0.97833	0.3148	0.92467	0.95993	0.72733	0.9507	0.96983	0.9417	0.7353	0.9533	0.97483	0.97883
chr21	33808011	33808061	6	0.97433	0.9866	0.97425	0.98403	0.94933	0.9577	0.96583	0.9232	0.9687	0.9518	0.98717	0.96775

***FIG. 6* (Continued)**

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chr20	50819459	50819678	6	0.95821	0.9735	0.96286	NaN	0.96983	0.02628	0.10333	0.004667	0.963
chr20	50819527	50819678	5	0.95557	0.9742	0.96203	NaN	0.96993	0.03022	0.0981	0.0056	0.9728
chr20	51424407	51424459	4	0.95461	0.9245	0.90287	NaN	0.91479	0.883	0.14375	0.951	0.69525
chr20	51424450	51424459	3	0.96067	0.925	0.92383	0.13067	0.92239	0.8778	0.14867	0.94667	0.689
chr20	51508378	51508411	5	0.97137	0.9292	0.96473	0.9698	0.9551	0.97116	0.9737	0.9886	0.988
chr20	51508393	51508411	4	0.97257	0.9265	0.96442	0.973	0.95137	0.9708	0.98388	0.9955	0.985
chr20	53894053	53894100	5	0.93531	0.9654	0.95663	NaN	0.9282	0.00792	0.0585	0.0248	0.9736
chr20	56520803	56520830	2	0.98114	0.9885	0.964	0.91	0.97942	0.9871	0.9425	0.977	0.9675
chr20	57431129	57431212	5	0.08737	0.7586	0.64332	0.9484	0.0809	0.96908	0.9214	0.9818	0.9578
chr20	58692257	58692303	4	0.03864	0.0915	0.08104	0.94625	0.04771	0.9508	0.91237	0.965	0.95675
chr20	62201572	62201663	7	0.95651	0.957	0.95114	0.03114	0.9631	0.20529	0.13279	0.209	0.97743
chr20	62201601	62201663	5	0.95383	0.9536	0.94273	0.0304	0.95557	0.19888	0.1214	0.1896	0.9728
chr20	62292318	62292418	4	0.96004	0.9603	0.96346	0.03875	0.95412	0.842	0.4515	0.9695	0.9715
chr20	62292398	62292418	3	0.95629	0.956	0.96183	0.02133	0.9555	0.84773	0.50183	0.97133	0.962
chr20	62292410	62292418	2	0.96107	0.9605	0.96558	0.0195	0.95625	0.8477	0.52075	0.964	0.9845
chr20	62798455	62798461	2	0.78821	0.9385	0.96717	0.929	0.9025	0.9575	0.97025	1	0.9665
chr20	63730702	63730763	5	0.04739	0.0084	0.00963	0.0056	0.01603	0.00725	0.0147	0.0548	0
chr20	63730716	63730763	4	0.05295	0.0048	0.00729	0.0035	0.01679	0.00731	0.01638	0.03375	0
chr20	63906521	63906582	4	0.88971	0.0815	0.02504	0.929	0.81858	0.9701	0.95675	0.957	0.98125
chr20	64087424	64087532	10	0.96911	0.9788	0.97533	0.9843	0.96681	0.98184	0.9636	0.9883	0.9746
chr20	64087449	64087532	9	0.96911	0.9839	0.97722	0.98256	0.96534	0.98184	0.95956	0.99078	0.97178
chr21	16025919	16025941	2	0.91629	0.861	0.91458	0.9165	0.91275	0.9446	0.7215	0.9815	0.853
chr21	31180007	31180064	4	0.95964	0.9145	0.89333	0.93325	0.92354	0.94965	0.832	0.957	0.34075
chr21	31182973	31182981	2	0.97336	0.946	0.9625	0.963	0.96508	0.9659	0.92825	0.95	0.017
chr21	32407914	32407923	2	0.95671	0.9415	0.95442	0.894	0.94008	0.9707	0.8355	0.924	0.919
chr21	32929488	32929538	3	0.95762	0.9557	0.93339	0.51933	0.9325	0.90073	0.07833	0.98133	0.38067
chr21	33223061	33223109	6	0.98032	0.9722	0.98081	0.97617	0.97158	0.9926	0.97608	1	0.992
chr21	33296290	33296397	5	0.96266	0.9606	0.96307	0.0034	0.9688	0.01596	0.1429	0.0204	0.9706
chr21	33554814	33554829	3	0.97567	0.9013	0.96978	0.962	0.95961	0.972	0.93167	0.96433	0.763
chr21	33808011	33808061	6	0.97517	NaN	0.96739	0.95317	0.97392	0.98077	0.88125	0.97033	0.97117

***FIG. 6* (Continued)**

chr21	33938277	33938329	3	0.98133	0.9458	0.9125	0.94633	0.6	0.838	0.9405	0.8608	0.1007	0.1193	0.974	0.86483
chr21	35041317	35041546	3	0.91467	0.7813	0.82817	0.86913	NaN	0.768	0.8985	0.4957	0.2063	0.3198	0.94733	0.92533
chr21	36253682	36253850	4	0.937	0.9399	0.95519	0.98085	0.94825	0.9295	0.90112	0.9669	0.9763	0.9225	0.90625	0.96724
chr21	37378462	37378535	6	0.9605	0.9611	0.94233	0.97543	0.97717	0.9555	0.94325	0.9035	0.9663	0.9768	0.956	0.97269
chr21	37378466	37378535	5	0.961	0.958	0.9377	0.97052	0.9726	0.9528	0.9388	0.8984	0.964	0.9746	0.9502	0.97337
chr21	39510066	39510101	5	1	0.9688	0.97655	0.97112	0.9706	0.95	0.9683	0.9828	0.9828	0.9679	0.9334	0.96337
chr21	40817922	40817966	5	0.96	0.9867	0.98215	0.9699	0.9532	1	0.9938	0.9648	1	0.98	0.969	0.98263
chr21	40817951	40817970	5	0.96	0.9783	0.97617	0.97754	0.9666	0.9778	1	0.9806	0.9334	1	0.9675	0.97797
chr21	41922135	41922148	3	0.91267	0.9586	0.91117	0.85907	0.93733	0.986	0.88033	0.9417	0.9163	0.9343	0.90833	0.93278
chr21	43353381	43353468	6	0.95317	0.9775	0.96726	0.94117	0.9285	0.9348	0.9735	0.9678	0.9653	0.9598	0.89083	0.97035
chr21	44849755	44849828	6	0.96183	0.9657	0.93812	0.04877	0.96267	0.9767	0.1365	0.9396	0.9662	0.9561	0.95075	0.06792
chr21	44951665	44951684	5	0.9662	0.9652	0.9655	0.94304	0.9452	0.9714	0.955	0.9358	0.9588	0.9696	0.9537	0.96443
chr21	44951985	44952059	8	0.97475	0.9845	0.96078	0.95492	0.95025	0.941	0.96356	0.9611	0.98	0.9599	0.938	0.95829
chr21	44999840	44999902	5	0.955	0.9517	0.9527	0.93712	0.9214	0.8914	0.9523	0.9388	0.9102	0.9137	0.9372	0.94977
chr21	46425245	46425265	2	0.9405	0.8928	0.23763	0.9627	0.9245	0.7685	0.851	0.1175	0.8395	0.1915	0.95625	0.97508
chr21	46561821	46561842	4	0.96925	0.9493	0.25535	0.95885	0.942	0.985	0.97625	0.953	0.965	0.9696	0.92637	0.9785
chr21	46561890	46561913	2	0.9535	0.9273	0.21775	0.9091	0.972	0.932	0.9535	0.9728	0.9615	0.8973	0.9405	0.98225
chr22	17652879	17652959	5	0.976	0.9543	0.9784	0.97104	0.9338	0.9306	0.9328	0.9728	0.9652	0.9619	0.9578	0.97537
chr22	17824902	17824933	3	0.969	0.972	0.97158	0.945	0.97067	0.9423	0.95483	0.9592	0.9363	0.9603	0.32083	0.94428
chr22	17888662	17888677	2	0.943	0.9832	0.9625	0.9204	0.988	1	0.48925	0.9653	0.957	0.9745	0.98825	0.96417
chr22	18184676	18184775	8	0.9465	0.9797	0.97084	0.94543	0.96575	0.9849	0.96856	0.9763	0.9663	0.9682	0.93831	0.9604
chr22	18184718	18184775	5	0.9362	0.9727	0.9707	0.96016	0.9824	0.9848	0.9788	0.9743	0.9692	0.9619	0.9535	0.96317
chr22	18368602	18368686	5	1	0.9915	0.9727	0.97284	0.9678	0.977	0.9673	0.9783	0.9592	0.9892	0.9532	0.97847
chr22	18492783	18492837	6	0.95333	0.9798	0.96217	0.96057	0.99	0.9493	0.96842	0.9563	0.9655	0.972	0.955	0.98417
chr22	18493839	18493896	5	0.9578	0.9877	0.9459	0.96784	0.8712	0.9636	0.9554	0.9618	0.961	0.9873	0.9568	0.94137
chr22	20025429	20025477	4	0.92575	0.9697	0.96144	0.93275	0.9055	0.951	0.96825	0.9144	0.9548	0.9374	0.11063	0.96096
chr22	20101346	20101394	4	0.9795	0.976	0.26081	0.9494	0.85275	0.6908	0.9165	0.8605	0.9233	0.8126	0.95588	0.93321
chr22	20139764	20139776	2	0.937	0.9748	0.945	0.3931	0.8955	0.9315	0.79	0.4883	0.9245	0.851	0.91475	0.89392
chr22	20139832	20139859	3	0.93933	0.9717	0.96233	0.43747	0.94133	0.939	0.88367	0.7812	0.9473	0.9203	0.95567	0.90678
chr22	20475621	20475690	5	0.9526	0.9564	0.9738	0.9376	0.5742	0.2586	0.9378	0.9694	0.8118	0.9404	0.9354	0.89727

***FIG. 6* (Continued)**

SUBSTITUTE SHEET (RULE 26)

chr21	33938277	33938329	3	0.87271	0.9763	0.94183	0.596	0.89056	0.92153	0.41833	0.97333	0.44233		
chr21	35041317	35041546	3	0.91729	0.7847	0.87761	NaN	0.89428	0.5948	0.19667	0.898	0.54533		
chr21	36253682	36253850	4	0.97479	0.9135	0.96296	0	0.96879	0.07705	0.11163	0.87125	0.9425		
chr21	37378462	37378535	6	0.96352	0.0843	0.95419	0.97183	0.94972	0.97837	0.92817	0.97183	0.97433		
chr21	37378466	37378535	5	0.96354	0.0678	0.9531	0.9706	0.94873	0.97832	0.9222	0.9722	0.9692		
chr21	39510066	39510101	5	0.9862	NaN	0.97777	0.9278	0.96437	0.95016	0.9571	0.9768	0.9542		
chr21	40817922	40817966	5	0.97034	0.9664	0.98206	0.981	0.97285	0.97244	0.9406	0.918	1		
chr21	40817951	40817970	5	0.98014	0.975	0.97556	0.9882	0.97447	0.96442	0.9515	0.938	1		
chr21	41922135	41922148	3	0.88952	0.816	0.91228	0.02	0.89911	0.08769	0.39867	0.839	0.812		
chr21	43353381	43353468	6	0.96776	0.969	0.97267	0.873	0.96521	0.95825	0.311	0.97517	0.97133		
chr21	44849755	44849828	6	0.03941	0.0993	0.02781	0.95933	0.05911	0.96907	0.96158	0.973	0.975		
chr21	44951665	44951684	5	0.95809	0.069	0.86117	0.9468	0.97307	0.92568	0.9475	0.9802	0.9442		
chr21	44951985	44952059	8	0.9747	0.964	0.963	0.93738	0.97052	0.8952	0.91075	0.95212	0.994		
chr21	44999840	44999902	5	0.94874	0.941	0.9511	0.0582	0.95367	0.03477	0.0969	0.194	0.9234		
chr21	46425245	46425265	2	0.9585	0.944	0.92592	0.946	0.948	0.9773	0.95325	0.984	0.8625		
chr21	46561821	46561842	4	0.96036	0.9568	0.97542	0.98	0.98229	0.98095	0.9665	0.99075	0.99325		
chr21	46561890	46561913	2	0.95793	0.969	0.97275	0.965	0.97017	0.9761	0.97225	0.929	0.9465		
chr22	17652879	17652959	5	0.96734	0.9858	0.97649	0.9656	0.95333	0.9766	0.9371	0.9914	0.9642		
chr22	17824902	17824933	3	0.93729	0.9157	0.94161	0.96833	0.9365	0.9598	0.95	0.966	0.94933		
chr22	17888662	17888677	2	0.96029	0.9355	0.94225	0.8775	0.95108	0.9668	0.928	0.9535	0.9915		
chr22	18184676	18184775	8	0.95139	0.9598	0.95837	0.9425	0.95083	0.97213	0.96313	0.9615	0.95725		
chr22	18184718	18184775	5	0.96209	0.9518	0.9569	0.9664	0.95477	0.97284	0.965	0.9666	0.9592		
chr22	18368602	18368686	5	0.9788	0.968	0.97013	0.9928	0.97027	0.9786	0.9445	0.9534	1		
chr22	18492783	18492837	6	0.96536	0.9695	0.95139	0.97633	0.96831	0.9811	0.978	0.98267	0.98333		
chr22	18493839	18493896	5	0.95054	0.9454	0.93543	0.9648	0.95168	0.95032	0.9467	0.9594	NaN		
chr22	20025429	20025477	4	0.94875	0.9948	0.96596	0.972	0.97575	0.9715	0.94	0.98025	0.91025		
chr22	20101346	20101394	4	0.98264	0.946	0.94633	0.9515	0.94329	0.9633	0.902	0.96375	NaN		
chr22	20139764	20139776	2	0.9065	0.8945	0.88108	0.9395	0.91275	0.9742	0.90975	0.9555	0.9215		
chr22	20139832	20139859	3	0.92271	0.8953	0.92089	0.94667	0.93222	0.96113	0.93533	0.96633	0.95333		
chr22	20475621	20475690	5	0.92157	0.8418	0.8259	0.9382	0.90363	0.95776	0.9364	0.967	0.3592		

FIG. 6 **(Continued)**

chr22	21688966	21689061	5	0.9448	0.9747	0.95805	0.9544	0.9044	0.931	0.9463	0.9628	0.9292	0.9092	0.9468	0.96087
chr22	23208768	23208811	5	0.9716	0.9871	0.9611	0.9492	0.9592	0.9402	0.9406	0.9449	0.9788	0.9711	0.9188	0.9704
chr22	23752889	23752986	6	0.9775	0.978	0.96596	0.948	0.9295	0.9462	0.92592	0.9659	0.9472	0.9538	0.952	0.95189
chr22	23752914	23752986	5	0.973	0.9799	0.9661	0.95068	0.968	0.9354	0.9366	0.9658	0.9366	0.9582	0.9572	0.96237
chr22	23800675	23801015	5	0.951	0.9765	0.9635	0.94984	0.951	0.962	0.928	0.9583	0.9208	0.9371	0.8851	0.96447
chr22	23803361	23803437	5	0.9722	0.9676	0.971	0.9578	0.957	0.9608	0.9661	0.9779	0.958	0.9724	0.9324	0.9735
chr22	24134798	24134845	5	0.9018	0.5297	0.33775	0.78564	0.8982	0.8962	0.9082	0.8663	0.9062	0.8459	0.9377	0.90163
chr22	25392217	25392223	2	1	0.9623	0.98075	0.54847	0.915	0.9665	0.80475	0.8793	0.957	0.9768	0.939	0.95883
chr22	26493454	26493481	3	0.927	0.9669	0.97592	0.9532	0.98733	0.982	0.97033	0.9667	0.9553	0.99	0.2395	0.97
chr22	28793017	28793102	6	NaN	0.9528	0.95853	0.9017	0.92417	0.8785	0.93808	0.9248	0.8928	0.9635	0.91408	0.91851
chr22	28793050	28793083	4	NaN	0.9578	0.96385	0.88	0.9255	0.8625	0.9285	0.9354	0.8853	0.973	0.92988	0.90889
chr22	31289591	31289652	4	0.93675	0.0254	0.16994	0.9613	0.0205	0.1123	0.97125	0.8996	0.3948	0.8339	0.956	0.95333
chr22	37752572	37752757	7	0.96586	0.9665	0.97279	0.95109	0.97386	0.9534	0.95771	0.9809	0.9551	0.9709	0.91014	0.9584
chr22	37752656	37752757	5	0.9688	0.9676	0.9796	0.95412	0.9702	0.9416	0.9575	0.9812	0.9604	0.976	0.8974	0.95237
chr22	39176393	39176453	5	0.9604	0.9543	0.9619	0.92172	0.9772	0.9714	0.9554	0.9515	0.9342	0.9491	0.8986	0.9463
chr22	39235288	39235317	4	0.03875	0.2613	0.12938	0.03935	0.74775	0.4395	0.16737	0.115	0.6733	0.7116	0.03538	0.21333
chr22	39904243	39904333	5	0.9404	0.054	0.06315	0.95532	0.0734	0.0062	0.9609	0.8277	0.0078	0.0501	0.9351	0.9546
chr22	39904259	39904333	4	0.94075	0.0547	0.06819	0.9614	0.0695	0	0.96538	0.8531	0.0043	0.0508	0.94762	0.96092
chr22	39907689	39907913	5	0.9806	0.0747	0.09935	0.96912	0.1464	0	0.944	0.8651	0.0234	0.1311	0.9403	0.9621
chr22	39907700	39907913	4	0.98325	0.0602	0.09375	0.967	0.1465	0	0.94712	0.8564	0.0243	0.1288	0.93663	0.95904
chr22	39910438	39910479	4	0.95875	0.1854	0.117	0.87335	NaN	0.0173	0.87138	0.0448	0.0065	0.0033	0.95037	0.86746
chr22	40324597	40324624	4	0.9665	0.0257	0.05306	0.94075	0	0	0.83587	0.1694	0	0.0929	0.94388	0.95925
chr22	40389324	40389367	5	0.9814	0.9831	0.9638	0.87272	0.9704	0.9512	0.8874	0.9288	0.9688	0.9461	0.9578	0.85937
chr22	40771137	40771178	5	0.936	0.9183	0.96185	0.96292	0.959	0.9914	0.9524	0.9825	0.911	0.9684	0.9866	0.96976
chr22	41936546	41936650	5	0.9684	0.9615	0.9779	0.92292	0.951	0.9572	0.9344	0.9736	0.9294	0.9814	0.9574	0.95323
chr22	42031755	42031766	3	0.90167	0.8981	0.9035	0.8936	0.16633	0.2593	0.95967	0.9305	0.2377	0.571	0.92983	0.97161
chr22	42183836	42183863	3	0.96967	0.8242	0.95483	0.96295	0.127	0.204	0.95017	0.9515	0.1233	0.6295	0.9345	0.97328
chr22	46593379	46593443	3	NaN	0.7971	0.25767	0	0.967	0.903	0.0555	0.1828	0.9413	0.7102	0.09417	0.01356
chr22	46593492	46593513	3	NaN	0.8327	0.17717	0	0.927	0.988	0.01883	0.1162	0.945	0.7323	0.20333	0.00767
chr22	46631582	46631648	5	NaN	0.974	0.9831	0.96996	0.9726	0.9708	0.963	0.9809	0.9502	0.9372	0.9291	0.9654

FIG. 6 **(Continued)**

chr22	21688966	21689061	5	0.96394	0.961	0.95823	0.1508	0.96203	0.88936	0.2071	0.9398	0.9554	
chr22	23208768	23208811	5	0.97211	0.9564	0.96713	0.362	0.95147	0.04652	0.2807	0.04	0.9786	
chr22	23752889	23752986	6	0.952	0.9258	0.94486	0	0.94442	0.01393	0.08192	0.043333	0.955	
chr22	23752914	23752986	5	0.95586	0.9406	0.9486	0	0.95333	0.01672	0.0802	0.052	0.956	
chr22	23800675	23801015	5	0.96363	0.9492	0.95175	NaN	0.96067	0.24852	0.1563	0.8448	0.9464	
chr22	23803361	23803437	5	0.96346	0.974	0.9649	0.0882	0.9692	0.93144	0.1838	0.9716	0.9696	
chr22	24134798	24134845	5	0.88683	0.9138	0.91023	0.931	0.87863	0.93684	0.9303	0.9454	0.9198	
chr22	25392217	25392223	2	0.95743	0.893	0.94208	0.9715	0.96958	0.9677	0.95075	0.984	0.9705	
chr22	26493454	26493481	3	0.97824	0.9193	0.97128	0.96	0.97711	0.9772	0.95917	0.99233	0.982	
chr22	28793017	28793102	6	0.8932	0.8847	0.83094	0.88683	0.89103	0.96323	0.15117	0.9625	0.91667	
chr22	28793050	28793083	4	0.88495	0.8755	0.79946	0.904	0.88142	0.96135	0.13387	0.971	0.91925	
chr22	31289591	31289652	4	0.95182	0.893	0.94258	0.0985	0.94175	0.89185	0.27687	0.943	0.014	
chr22	37752572	37752757	7	0.95131	0.9709	0.95186	0.96843	0.96202	0.96057	0.9535	0.96643	0.97343	
chr22	37752656	37752757	5	0.94749	0.9726	0.95173	0.9762	0.9629	0.96324	0.9496	0.9736	0.968	
chr22	39176393	39176453	5	0.93523	0.9546	0.92677	0.9384	0.9383	0.9706	0.8663	0.9542	0.9712	
chr22	39235288	39235317	4	0.21529	0.003	0.01146	0.03275	0.01588	0.03085	0.17638	0.03725	0.4715	
chr22	39904243	39904333	5	0.96354	0.9538	0.96453	0.9508	0.94587	0.96244	0.9381	0.9646	0.1702	
chr22	39904259	39904333	4	0.96575	0.9423	0.969	0.95525	0.94412	0.9661	0.93163	0.9655	0.177	
chr22	39907689	39907913	5	0.96126	0.9738	0.9515	0.952	0.94757	0.96428	0.9396	0.9644	0.2356	
chr22	39907700	39907913	4	0.95493	0.9718	0.95096	0.94	0.94717	0.96125	0.93537	0.96225	0.218	
chr22	39910438	39910479	4	0.8849	0.9305	0.92587	0.21875	0.84671	0.8848	0.06375	0.9725	0.0375	
chr22	40324597	40324624	4	0.95407	0.948	0.96025	0.97225	0.93454	0.97575	0.8915	0.9835	0.02075	
chr22	40389324	40389367	5	0.90343	0.053	0.06623	0.9494	0.87247	0.91287	0.9576	0.912	0.9308	
chr22	40771137	40771178	5	0.95423	0.0948	0.93313	0.9484	0.9601	0.97772	0.9669	0.9514	0.9266	
chr22	41936546	41936650	5	0.95237	0.9654	0.9506	0	0.95987	0.169	0.0647	0.6092	0.971	
chr22	42031755	42031766	3	0.93129	0.896	0.968	0.60267	0.93289	0.9724	0.2295	0.95	0.09	
chr22	42183836	42183863	3	0.96029	0.9463	0.94401	0.77267	0.95876	0.9416	0.46467	0.97833	0	
chr22	46593379	46593443	3	0.00506	0.0087	0.00456	0.09167	0.00922	0.00633	0.04383	0	0.91933	
chr22	46593492	46593513	3	0.01359	0	0.004	NaN	0.00689	0	0.02217	0	0.93533	
chr22	46631582	46631648	5	0.97324	0.9726	0.9685	0.9532	0.96827	0.93052	0.9437	0.9424	0.9798	

FIG. 6 **(Continued)**

chr22	46702697	46702728	5	0.9658	0.9751	0.97545	0.97052	0.9714	0.9634	0.9407	0.9587	0.9796	0.9663	0.9779	0.96793
chr22	49931627	49931692	5	0.898	0.9795	0.9651	0.89032	0.9742	0.9534	0.8993	0.9615	0.945	0.9475	0.8789	0.88507
chr22	50056077	50056269	8	NaN	0.98	0.98003	0.95983	0.91663	0.9363	0.95694	0.9664	0.949	0.9518	0.94113	0.96125
chr22	50056227	50056269	7	0.96257	0.9771	0.97929	0.962	0.919	0.9351	0.961	0.9696	0.9417	0.9486	0.95721	0.96967
chr22	50056229	50056262	5	0.9566	0.9751	0.98185	0.96452	0.9476	0.9418	0.962	0.9737	0.948	0.9613	0.9616	0.97003
chr22	50056238	50056269	5	0.9578	0.9739	0.97835	0.96036	0.9168	0.9378	0.9544	0.9654	0.9396	0.9451	0.9498	0.96867
chr22	50697597	50697629	5	0.9694	0.9849	0.99165	0.98347	0.9714	0.9714	0.9426	0.9721	0.979	0.9728	0.9322	0.97483
chr22	50729682	50729703	5	0.9714	0.9643	0.954	0.94416	0.9574	0.9328	0.9802	0.9564	0.9366	0.9459	0.9459	0.96747

***FIG. 6* (Continued)**

chr22	46702697	46702728	5	0.96637	0.9674	0.97787	0.5162	0.96307	0.0988	0.7532	0.0196	0.9892	
chr22	49931627	49931692	5	0.92334	0.9142	0.8806	0.1198	0.89593	0.02472	0.3455	0.0112	0.9652	
chr22	50056077	50056269	8	0.9652	0.9273	0.96735	NaN	0.9665	0.90946	0.09725	0.9755	0.96413	
chr22	50056227	50056269	7	0.97482	0.9429	0.96817	0.07414	0.97307	0.89989	0.08064	0.98043	0.959	
chr22	50056229	50056262	5	0.97454	0.9436	0.97153	0.075	0.97197	0.90093	0.0823	0.9786	0.9658	
chr22	50056238	50056269	5	0.9736	0.946	0.9665	0.0742	0.9694	0.89241	0.0746	0.9804	0.9538	
chr22	50697597	50697629	5	0.96291	1	0.95844	0.9756	0.96889	0.96604	0.9472	0.9888	0.977	
chr22	50729682	50729703	5	0.95729	0.9486	0.96657	0.0996	0.95857	0.90932	0.1197	0.9716	0.9496	

FIG. 6 (Continued)

	B-cells (Heyn, 2012)	T-cells (Roadmap, 2015)	New born CD4+ T-cells (Heyn, 2012)	Ceneteria n CD4+ T-cells (Heyn, 2012)	Macrophages (Roadmap, 2015)	Dendritic cells (Pacis, 2015)	NK cells (Roadmap, 2015)	AML (Lund, 2014)	HSC CD34+ (Roadmap, 2015)	Healthy Blood (Gao, 2015)	PBMC (Li, 2010)
CD4+ T-cells	0	0.4288	0.8245	0.[illegible]	0	0	0.1473	0.0943	0.1139	0.[illegible]	0.[illegible]
CD4+ Tcm	0	0.0779	0	1	0	0	0	0	0	9	7
CD4+ Tem	0	0.2073	0	0.2066	0	0	0	0	0	0	0.000
CD8+ T-cells	0	0.0031	0.1063	0.2869	0	0	0	0	0	0.002	8
CD8+ Tcm	0	0.0105	0	0	0	0	0	0	0	6	0
CD8+ Tem	0	0.2251	0	0	0	0	0.077	0.0435	0	0.106	0.277
Eosinophils	0	0	0	0	0	0	0	0	0	7	0
Erytrocytes	0	0	0	0	0	0	0.025	0.097	0	0	0
Macrophages M0	0	0	0	0	0	0	0	0	0	0.002	0
Macrophages M1	0	0	0	0	0	0	0	0	0	0	0
Macrophages M2	0	0	0	0	0	0.0838	0	0	0	0	0
Megakaryocytes	0	0	0	0	0	0	0	0	0.7119	0	0
Memory B-cells	0.4289	0	0	0	0	0	0	0	0	0	0
Monocytes	0	0	0	0	1	0.2786	0.0386	0.7049	0.0736	0.128	0.033
NK cells	0	0	0	0	0	0	0.4692	0	0	0.93	2
Naive B-cells	0.5711	0	0	0	0	0	0.1758	0	0	0.[illegible]73	0
Neutrophils	0	0	0	0	0	0	0	0	0.006	0.4741	0
Plasma cells	0	0	0	0	0	0	0	n	0	0	0
Precursor B-cells	0	0	0.0692	0	0	0	0.0671	0.0602	0.0947	0.0187	0.0743
Tregs	0	0.0474	0	0.0927	0	0	0	0	0	0	0.0144
cDC	0	0	0	0	0	0.6376	0	0	0	0	0

FIG. 7

Sample ID	nanograms of DNA	# of reads	# of mapped reads	# of on-target reads	# of on-target reads > 1 CpGs	% of mapped reads	% of on-target reads	% of on-target CpG>1
B-cells	1000	3,297,718	2,433,286	297,314	199,576	73.79%	12.22%	8.20%
CD4+ T-cells	1000	7,692,226	5,494,052	966,632	662,952	71.42%	17.59%	12.07%
CD8+ T-cells	1000	4,164,251	3,038,825	401,630	275,561	72.97%	13.22%	9.07%
Macrophages	1000	4,888,903	3,533,893	373,949	251,605	72.28%	10.58%	7.12%
Monocytes	1000	6,071,579	4,575,100	514,473	344,689	75.35%	11.25%	7.53%
Neutrophils	1000	2,768,320	2,067,539	455,520	308,712	74.69%	22.03%	14.93%
NK cells	1000	5,769,113	4,300,726	239,941	160,902	74.55%	5.58%	3.74%
pDCs	1000	4,707,570	3,467,397	383,360	260,587	73.66%	11.06%	7.52%
Mix1	1000	5,573,496	4,218,053	448,145	299,564	75.68%	10.62%	7.10%
Mix2	1000	5,635,386	4,245,298	451,050	302,922	75.33%	10.62%	7.14%
Mix3	1000	5,475,612	3,922,760	460,612	312,168	71.64%	11.74%	7.96%
Mix4	1000	5,998,694	4,446,846	480,998	323,507	74.13%	10.82%	7.27%
CyTOF_1	1000	6,610,183	2,780,484	287,505	190,902	42.06%	10.34%	6.87%
CyTOF_2	1000	4,910,432	3,531,369	693,019	475,602	71.92%	19.62%	13.47%
CyTOF_3	1000	6,570,582	3,588,530	571,396	389,234	54.62%	15.92%	10.85%
CyTOF_4	364	5,161,766	1,978,904	429,171	297,452	38.34%	21.69%	15.03%
CyTOF_5	1000	6,513,762	2,558,167	575,027	399,591	39.27%	22.48%	15.62%
CyTOF_6	1000	5,198,847	2,048,256	438,047	300,801	39.40%	21.39%	14.69%
CyTOF_7	1000	9,250,237	3,391,783	616,873	420,119	36.67%	18.19%	12.39%
CyTOF_8	944	10,883,118	4,326,056	970,550	674,181	39.75%	22.43%	15.58%
CyTOF_9	111	3,362,894	2,138,966	323,281	211,896	63.60%	15.11%	9.91%
CyTOF_10	726	10,126,171	4,418,367	932,034	643,528	43.63%	21.09%	14.56%
CyTOF_11	149.2	3,560,551	1,782,363	341,066	221,943	50.06%	19.14%	12.45%
CyTOF_12	348	2,945,804	1,921,413	240,841	156,679	65.23%	12.53%	8.15%
CyTOF_13	1000	14,226,000	7,297,669	1,194,655	819,460	51.30%	16.37%	11.23%
CyTOF_14	1000	9,610,522	5,196,946	782,494	534,489	54.08%	15.06%	10.28%
CyTOF_15	798	4,261,885	1,954,090	332,265	218,378	45.85%	17.00%	11.18%
CyTOF_16	188.4	13,490,343	4,610,063	755,257	528,064	34.17%	16.38%	11.45%
CyTOF_17	42.6	11,409,093	4,886,962	687,239	469,870	42.83%	14.06%	9.61%
CyTOF_18	956	10,259,503	5,950,351	766,443	522,686	58.00%	12.88%	8.78%
CyTOF_19	674	9,533,693	5,493,328	597,229	408,043	57.62%	10.87%	7.43%
CyTOF_20	334	7,865,311	3,583,734	465,724	316,792	45.56%	13.00%	8.84%

FIG. 8

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US 17/33531

A. CLASSIFICATION OF SUBJECT MATTER
IPC(8) - C12Q 1/68, G06F 17/10, C12N 15/117 (2017.01)
CPC - G06F 19/18, G06F 19/24, C12Q 1/6883, C12Q 2600/154, C12Q 1/6869

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
See Search History Document

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
See Search History Document

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
See Search History Document

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	US 2014/0178348 A1 (The Regents of the University of California) 26 June 2014 (26.06.2014) claim 47, para [0003], [0017], [0066], [0067], [0070], [0102], [0213], [0245], [0246], [0253], [0282], [0315], [0335], [0370], [0372], [0373], [0408], Figues 10A, 10B, 12	1-6, 9-14, 17-22 ---------- 7-8, 15-16, 23-24
Y	US 2015/0099670 A1 (LI et al.) 09 April 2015 (09.04.2015) abstract, claim 8, para [0009]	7-8, 15-16, 23-24
A	US 2012/0196756 A1 (AHLQUIST et al.) 02 August 2012 (02.08.2012) entire document	1-24

☐ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

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Date of the actual completion of the international search	Date of mailing of the international search report
29 July 2017	17 AUG 2017
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US, Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-8300	Authorized officer: Lee W. Young PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774

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