## Figure S1

**a**, Plot of SNP and gap differences along chromosomes between versions of S288c from SGD (Saccharomyces Genome Database, <u>http://www.yeastgenome.org</u>, downloaded October 2<sup>nd</sup> 2007) and SGRP (Saccharomyces Genome Resequencing Project, this work). Chromosomes I and II appear to have a higher dissimilarity rate than the other chromosomes and there are cluster of dissimilarities present in subtelomeric regions and multicopy genes; **b**, Example of dissimilarity over *MCM7*, an essential gene on chromosome II, where comparative analysis supported the SGRP sequence; **c**, SGRP quality scores where all other strains agreed with SGD (left graph) and with SGRP (right graph).

#### Figure S2

Distribution of novel hypothetical ORFs (rows) among the sequenced strains (columns). Gray squares indicate the newly-sequenced strains in which the six novel proteins and 38 ORFS were identified.

## Figure S3

Neighbour-joining (NJ) trees, based on SNP differences between all *S. paradoxus* strains sequenced, with geographic subgroups highlighted in different colours. The *S. cerevisiae* NJ tree is shown to the same scale. Variation in *S. cerevisiae* is comparable to that in a single *S. paradoxus* subpopulation and is substantially less than *S. paradoxus* as a whole.

#### **Figure S4**

Changing topology of the NJ trees along chromosome VIII. The clean lineages show the same NJ topology across the genome whereas mosaic strains exhibit different topologies for different segments. For example in strain UWOPS83.787.3 (green) the leftmost 80kb of chromosome VIII groups with the Wine/European cluster. In the interval from 240-320 kb the strain groups with the North American strains. For the same intervals the lab strain S288c (violet) is in a long branch followed by the Wine/European cluster.

**a**, DNA similarity plots comparing sequences from each clean lineage to a selection of other strains depicted in different colours. Each subplot shows the similarity along the length of a chromosome between the strain printed on the left and each of the strains listed at the bottom. Within each 10kbp block along the chromosome, similarity is defined as N/(D+1), where N is the number of positions in the block for which both strains have a nucleotide of quality 40 or more (maximum 10,000) and D is the number of those positions where the nucleotides differ. Thus, for example, the middle plot shows that DBVPG6765, represented by the yellow line, is more similar to L-1528 across the whole of the chromosome than are any of the other strains listed at the bottom of the diagram. Chromosome X is displayed and similar results were obtained for the rest of the genome. The top four panels are for strains with a mosaic genome, as evidenced by the fact that no single line is consistently highest for any of them. Strain YIIC17-E5 is close to the European/Wine cluster in the phylogenetic tree and most of the chromosomes show high similarity to this lineage (yellow). The bottom five panels are representatives of the five clean lineages showing high similarity to a single query genome right across the chromosome.

**b**, Similar to **a**, but for chromosome II, and with the W303 genome added (purple). This shows large blocks of homology between S288c and W303. Between 150 and 200 kbp W303, but not S288c, shares high homology with the West African lineage (black). Both SK1 and Y55 exhibit high similarity to the West African lineage up to ~600 kbp, when they switch to the sake (red) and Wine/European (yellow) lineages respectively. Y55 also contains a Wine/European segment at around 400kbp.

## **Figure S6**

Ribosomal DNA polymorphism associated with genome mosaicism. Variable nucleotide positions (substitutions only) found in the 9.1 kb rDNA repeat are mapped for each *S. cerevisiae* strain. The proportion of sequencing reads showing base substitution at a given variable position is indicated by the colour of the bar. Fully resolved polymorphisms (i.e. SNPs) are excluded. Low frequency polymorphisms, indicated by red bars, predominate, with increasing within-strain variation particularly evident in the non-coding IGS1 and IGS2 regions. Strain names are given on the left, with structured genome strains shown in blue and mosaic strains in red. Ribosomal DNA copy number estimate (in

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green) and total number of polymorphic positions (in black) are shown for each strain on the right. Strains are sorted top to bottom by increasing number of polymorphic positions. Strains with mosaic genomes possess significantly greater numbers of polymorphisms. The average for mosaic strains was 98 polymorphic sites compared to the structured strain average of 34 sites ( $p=1.3 \times 10^{-6}$  under Mann-Whitney U rank test). L-1528 was excluded from this analysis due to a high number of unaligned reads resulting in unreliable data.

## Figure S7

Abundance of Ty transposable element sequences across *Saccharomyces* strains. The proportion of Ty sequences in ABI shotgun sequencing reads identified by RepeatMasker is shown for each strain of *S. cerevisae* (red) and *S. paradoxus* (blue). Population are defined as in Fig. 1 and abbreviated as follows: WE - Wine/European, CL - Clean Lineage, MO - Mosaic, UK - United Kingdom, RU - Russia, FE - Far East, DK - Denmark, HA - Hawaii, NA - North America, SA - South America. The 6 strains identified as potential clonemates in Table S6 are also excluded from this analysis. Comparison of overall TE abundance in shotgun reads (3.53%) from *S. cerevisiae* strain S288c with the reference genome sequence from the same strain (3.35%) reveals that estimates of overall TE content from reads are similar to finished genome assemblies. Our estimate of Ty abundance for the finished S288c assembly is slightly higher than previous estimates (3.1%)<sup>31</sup> since we used an expanded RepeatMasker library with newly reported *Saccharomyces* Ty variants<sup>32</sup>.

## Figure S8

**a**, Derived allele frequencies in single nucleotide polymorphisms (SNPs) in non-coding regions compared to those in synonymous sites (unfilled symbols). All categories of non-coding SNPs show an excess of low frequency alleles indicating the action of purifying selection, with SNPs in tRNAs (red bars) showing the strongest effect.

**b**, Distribution of McDonald-Kreitman (M-K) ratios for yeast genes. Dotted trace indicates the expectation in the absence of selection or changes in effective population size. Inset is the ration of amino acid changing to synonymous polymorphisms as a function of allele frequency. Because of the

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excess of amino acid polymorphism at low frequency, only SNPs with minor allele frequency >20% were used for M-K tests.

# **Figure S9**

Phenotype variation among sequenced *S. cerevisiae* and *S. paradoxus* strains. Quantification of strain growth phenotypes in 67 environments was performed using high resolution micro-cultivation, automated measurements of population optical density (OD) and calculation of strain doubling times, lags and maximum densities. See Supplementary Materials and Methods for details. Strain (n=2) doubling time, lag and maximal density phenotypes in relation to 20 replicates of the haploid S288c derivative BY4741. Logarithmic strain coefficients, LSC=LN (strain/BY4741) are displayed. Green = poor growth, red = good growth. Hierarchical clustering of strain doubling time, lag and maximum density phenotypes was performed using a centred Pearson correlation metric and average linkage mapping. Blue lines = *S. paradoxus*, pink lines = *S. cerevisiae*, grey line = *S. bayanus* isolate CBS7001.

## Figure S10

**a**, Phenotypes that distinguish *S. paradoxus* from *S. cerevisiae*. The growth (LSC, n=2) relative the reference strain (n=20) in each environment, averaged over all *S. cerevisiae* and all *S. paradoxus* isolates, is displayed. Error bars indicate standard error. Differences are significant (Student's t-test, Boole-Bonferroni correction; cycloheximide=  $p=10^{-17}$ , heat=  $p=10^{-11}$ , paramomycin=  $p=10^{-12}$ , CuCl<sub>2</sub>=  $p=10^{-10}$ ).

**b**, Phenotypes that distinguish the *S. cerevisiae* Wine/European & mosaic strains (left cluster group) from other *S. cerevisiae* strains (right cluster group). The growth (LSC, n=2) relative the reference strain (n=20) in each environment, averaged over all strains and all environments is displayed. Error bars indicate standard error. Differences are significant (Student's t-test, rate  $p=10^{-55}$ , lag  $p=10^{-5}$ ).

## **Supplementary Methods**

#### Strain genome assembly

Assembly was carried out using PALAS, for Parallel ALignment and ASsembly. All *S. cerevisiae* strains were assembled together in one run, and all *S. paradoxus* in another. The PALAS algorithm worked as follows.

The whole-genome sequence for each strain was initialized to the reference sequence for its species, generalized to a (low-complexity) graph by adding edges that allow transposons and one or more copies of tandem repeats to be omitted, and others that allow transposons or long terminal repeats (LTRs) to be inserted at places where an initial alignment of reads to the reference sequence suggests they may be present: i.e. where a read matches a piece of unique sequence and one end of a transposon or LTR. Successive iterations of PALAS then caused each sequence to diverge away from the reference in the direction of the correct sequence for that strain. Each iteration involved the following steps.

1. All still-unplaced Sanger reads for each strain were aligned to the sequence graph for that strain using SsahaSNP (http://portal.acm.org/citation.cfm?id=1099538.1099840&coll=&dl= )with the parameters

-diff 2000 -score 20 -seeds 2 -cut 50000

to ensure that as many non-trivial matches as possible for any part of each read were found. For this purpose, the sequence graph is represented as a main "backbone" sequence plus smaller sequences extending 1200bp (the maximum length of a read) in each direction from each choice point.

2. Matches for each read, or each read pair when applicable, were assigned to clusters. One match could belong to more than one cluster. Each cluster represented a consistent set, in the sense that all matches for the same read had to have the same orientation and be in the right order. In the case of a pair, the matches for the two reads had to be in opposite orientation and be separated by at most 20kbp, a generous estimate of the upper limit of the insert-size distribution plus an allowance for a large

deletion. Each cluster was assigned a score according to the scores of its component matches and the number of those matches. The highest-scoring clusters consisted of a single match for each of a pair of reads (indicating no large structural variations), consistently oriented, and with each match containing relatively few nucleotide or short-indel differences.

3. Some clusters were discarded on various grounds, including mainly: low absolute score; too much inserted material relative to the matched material, or too many individual insertions; implying a (large) indel at a point across which a read for the same strain had been placed in an earlier iteration, or across which a surviving cluster for another read matches without a break.

4. When the best cluster exceeded that of the next-best cluster (if any) by at least a given threshold, the matches in it were passed forward to the next stage. Otherwise, no matches for that read (pair) were passed forward. However, when two clusters consisted of identical matches to different parts of the genome, both were accepted; in practice, this only occurred for matches to the rDNA region, which is represented as two identical copies in the reference genome.

5. Surviving matches were then pruned. Where two matches overlapped and either they were for the same strain, or one (or both) originated in a cluster involving a large indel, the lower-scoring one was rejected. This cautious approach increased the number of PALAS iterations required, but had the advantage of making sequence changes implied by one read available for matching other reads in subsequent iterations, thereby ensuring consistency between overlapping accepted matches. All matches not rejected on these grounds were firmly accepted and incorporated into an overall whole-genome, multi-strain, multi-read alignment, containing the matches accepted in the current and all previous iterations, and quality scores as well as nucleotides.

6. At each position in this alignment, a consensus nucleotide value (or gap symbol) and quality score was inferred for each strain that had one or more reads matching at that point. The consensus value was the one whose sum of quality scores was highest. The initial quality score  $q_1$  was this sum, minus the sum for the next-best value if any.  $q_1$  was then adjusted to  $q_2$  using the formula  $q_2 = K (1-e^{-0.029q})$ , where K was 38.5 if any match specified a gap symbol and 55 otherwise. This formula was determined from statistics on the frequency of mismatches resulting by considering only forward-matching reads

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and only reverse-matching reads, as a function of the  $q_1$  values from each of those sources. Its main effect is to flatten off  $q_2$  values so that they never exceed 55.

7. Because of the low coverage and presence of sequencing errors, the sequence for each strain is neither as complete nor as correct as it could be. This is remedied using an imputation process, in which a sample of ancestral recombination graphs (ARGs) are calculated using the Margarita system<sup>33</sup> (in order to give a sample of possible trees relating the strains at each point in the genome. Felsenstein's algorithm<sup>34</sup> is then applied to infer a value at every strain. The effect of this is to correct sequencing errors that have low quality scores and to fill in missing values.

8. A sequence graph for each strain is then read off from the alignment, preserving the uncertainty that arises when strain S1 has no or very little material placed in a region R; strain S2 has a deletion across R; and strain S3 has some sequence in it. When this happens, the sequence graph for S1 will allow region R to be either included or skipped in subsequent matching.

9. A decision is then made on whether to continue iterating or to finish. Another iteration is started if, on average, more than one genome position in 10,000 has been newly filled in for each strain on the current iteration.

10. Otherwise, a final iteration is run, which differs from the earlier ones in four respects. In step 4, only clusters for paired reads involving one comprehensive match for each read in the pair are created. In step 5, overlapping reads for the same strain are allowed. In step 7, 25 ARGs are sampled, rather than 3 as in earlier iterations, to increase the accuracy of imputation. In step 8, a firm decision is made on which subsequences to include, so as to yield a sequence rather than a graph.

11. Once a sequence has been generated for each strain, Illumina (Solexa) reads are aligned using Maq<sup>35</sup>. Alignment is to the PALAS-derived (imputed) sequence for the strain if one was created, or otherwise to the species reference sequence. A final consensus sequence per strain is then derived by combining Sanger and Illumina nucleotide values, taking the highest-scoring value when there is a clash.

## S. paradoxus assembly

First, we built an *S. paradoxus* reference sequence using the Phusion assembler<sup>36</sup> from reads from the following sources.

1) Ten strains collected in London, totalling about 11x coverage. We tried including further European strains, but found that doing so produced less good results, presumably because the greater divergence confused the assembly process more than the extra data helped it.

2) All reads from the original *S. paradoxus* sequencing project<sup>37</sup>, again totalling about 11x coverage.

3) Artificial reads constructed by shredding the 832 contigs created by Kellis *et al*<sup>37</sup> into paired 1,000 bp sequences, 5kbp insert size, with reads overlapping by 500bp, giving 2x coverage.

Running Phusion on these reads created 608 contigs organized into 471 supercontigs, for a total length of 12,265,206 bp. The N50 contig size was 172,493, compared to 11,872,617 bp total and N50 49,124 for the Broad assembly.

Next, we aligned the contigs against the Sc reference using Ssaha2 with default settings. The best alignments for the contigs were in good agreement with the supercontigs that Phusion had independently created: we were able to place 52 supercontigs (roughly the largest 52, covering 11,639,177 bp, or 94.9% of our assembled sequence). All but two of these placements were completely syntenic, once allowance had been made for subtelomeric rearrangements. We broke the other two supercontigs: one at a point between two contigs, and the other in the middle of a contig which appeared to be chimeric owing to sequence similarity between two regions of approximately 2,500 bp located at roughly 1,243,250 to 1,245,753 on ChrIV and 575,099 to 577,600 on ChrXV.

We then formed most of the Sp assembly by juxtaposing all the placed contigs, separating contigs within the same supercontig with 50 ``N" symbols and separating adjacent supercontigs by 100 ``N" symbols. However, coverage of the Sc sequence by the Sp contigs was poor in the mitochondrion (only about 20\%, all short contigs) and the rDNA region on chromosome XII because of its multiple repeats. We therefore did not attempt to create a mitochondrial sequence. We carried out a separate Phusion run on the reads aligning to the Sc rDNA region; these assembled into a sequence of 8,393 bp for the each

of the rDNA sequences proper (cf 8,375 for Sc) separated by spacers of 721 bp (cf 762 for Sc), and ending with a partial copy of the region containing only the first 1,200 bp.

Second we performed deep 80X coverage using Illumina GA on our version of CBS432 to create an independent assembly. Essentially, we obtained the same genome architecture albeit with strain specific SNPs and indels. This complete reference did not result in any substantial changes in the analysis.

#### Multiple-species whole genome alignments

We created an initial whole-genome alignment between *S. cerevisiae*, *S. paradoxus*, *S. mikatae*, *S. kudriavzevii* and *S. bayanus*, using the SGD reference sequence for *S. cerevisiae*, our *S. paradoxus* assembly (see above), and assemblies for the other three species downloaded from

#### ftp://genome-ftp.stanford.edu/pub/yeast/sequence/fungal genomes

We used the MIT assembly for *S. mikatae* and the Washington University assemblies of the last two species. We aligned each species to *S. cerevisiae*, using  $ssaha2^{38}$  in each case except for S paradoxus, where we used BLASTN (with parameters W=9 M=1 N=-1 Q=3 R=2 wordmask=seg) because ssaha2 was not able to handle chromosome-length query sequences. We found that where we were able to use ssaha2, it gave better results (fewer separate matches, encompassing more sequence) than Blastn. We then formed the multi-species alignment by placing the two-species alignments beside each other, using the *S. cerevisiae* sequence as backbone.

### Inference of ancestral states and allele frequencies

To infer ancestral states for SNPs in non-coding regions the whole genome alignments described above were used. Where the outgroup matched one of the segregating alleles, this was inferred to be ancestral. Where the outgroup matched neither of the segregating alleles, no ancestral state was inferred.

To infer ancestral states in coding regions, alignments based on proteins rather than DNA are expected to be more accurate. Therefore, we obtained the one-to-one orthologue assignments of protein coding

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sequences (CDS) from SGD, translated these and aligned them using T-coffee<sup>39</sup>. Genes with introns were excluded from these analyses. The gaps in these protein alignments were then re-introduced into the sequences of the CDSs. These alignments were used to infer the ancestral states of SNPs, as well as to calculate the number of fixed differences in coding regions for analysis of synonymous and non-synonymous sites. Codons in which there were more than one SNP or substitution, or where the outgroup matched neither segregating allele were not considered.

Insertion and deletion mutations were identified by searching for the largest possible continuous region of gap characters in the alignments, where at least one other strain had sequence observed. Indels and stop codons in essential genes were identified using essential genes as indicated in http://chemogenomics.stanford.edu/supplements/01yfh/files/orfgenedata.txt<sup>40</sup>.To compute allele frequencies, residues with quality less than 40 were excluded, as were positions with more than two alleles. The observed counts of each residue were divided by the total number of residues at each position. For indels, data from strains were excluded if any of the two residues flanking the indel on either side had quality less than 40, or if there was another indels within 15 basepairs. Such indels were considered likely to have alignment difficulties, particularly in the case of homopolymeric repeats, where placement of the indel is often arbitrary. Only markers with exactly two alleles and at least eight total observations were included in the analyses. For minor allele frequency analysis, aligning sequence in the outgroup was required, but it was not required to match either the reference or variant codon in the strains. All this analysis was performed on the observed sequence data, rather than imputed data.

## Linkage Disequilibrium

Calculations of  $\theta$ ,  $\rho$  and linkage disequilibrium based on raw (not imputed) data with q>40 with gaps treated as missing data.  $\theta_{\pi}$ ,  $\theta_{S}$  and Tajima's D were calculated using Variscan (version 2.0.1; option numnuc = 4). Linkage disequilibrium was measured by r<sup>2</sup> and calculated using custom Perl scripts.

# Analysis of CNVs.

A gene coverage table (available at ftp site

ftp://ftp.sanger.ac.uk/pub/dmc/yeast/latest) was produced with the average

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aligned depth for each gene across each strain. This number was then divided by the mean coverage of the strain, in order to get an approximation of the copy number for each gene in each strain, giving a total of 36 x 6577 estimates altogether. These estimates were rounded to the nearest integer. For estimates up to n=4 the distribution fits a Poisson with mean 1. For n≥5, the observed distribution of estimates is much higher than the Poisson would predict. These discrepancies are evidence of copy number >1, with an estimated 4120 (out of 36\*6577) gene-strain combinations showing evidence of five or more copies. After Bonferroni correction only estimates of n≥10 remain significant. Excluding rDNA genes, known to be high-copy, nearly all of the remaining genes with increased copy numbers are from three strains. The counts are:

226 genes in YJM981

202 genes in NCYC361

27 genes in YS2

4 genes in DBVPG1373

1 gene in 273614N

1 gene in BC187

The karyotypes show that YJM981 and possibly also NCYC361 have an unusual chromosome structure (results not shown). The high-copy genes in these strains do not seem to cluster in specific chromosomes.

The seven (4+1+1+1) CNVs in the strains that have four or fewer CNVs are:

YBL071C-B UWOPS05.217.3

YFR012W 273614N

YGR201C BC187

<sup>1</sup> gene in UWOPS05\_217\_3

#### YHR052W-A DBVPG1373

CUP1-1 DBVPG1373

YHR054W-A DBVPG1373

## CUP1-2 DBVPG1373

Apart from *CUP1*, the other genes are all either uncharacterised or dubious. The *CUP1* story we have presented may be the only CNV example that we can detect in this way. There is clearly something interesting going on with the three strains with high counts of genes with increased copy number and this will merit further investigation. Because of the large number of gene-strain combinations and the consequent need for a Bonferroni correction, we cannot use read coverage alone to spot copy numbers >1 but <10. For more sensitivity, we would need to look at assembly clashes (multiple apparent withinstrain SNPs and/or structural inconsistencies) in alignments from the same strain to the same gene, which is beyond the scope of this paper.

## Analysis of novel genes

One of the advantages of direct re-sequencing over the microarray approach is the detection of novel genes not present in a reference genome. Putative novel genes in the newly sequenced *S. cerevisiae* isolates were identified from the sequence reads. Here we describe the approach used to identify potential new ORFs.

- To start our search we have used the reads that had not been aligned by PALAS to the reference genome sequence S288c. These reads have at least 400 bp of good sequence and are therefore expected to align.
- The sequences of the unaligned reads were compared to the published genome sequence using BLAST<sup>41</sup> and matches discarded. These sequences included the coding sequences of genes with multiple copies in the newly sequenced isolates but only one copy in the published sequence.

- We predicted translations in all six frames in the 2506 reads for which no match was found in the reference genome and found 1118 open reading frames (ORFs) of 100 amino acids or more in 923 different reads.
- 4. Of these 923 reads 278 found a match only in the same strain when compared to all 923 sequences using BLAST search. Analyses of these reads suggested that they are likely to be contamination during the DNA extraction or sequencing process.
- Among the remaining predicted peptides, we determined that 38 were likely to be real genes because they contained matches to protein domains (Pfam) or matched other sequences in the NCBI database.
- 6. In order to identify which isolates and lineages encode these putative novel genes, the six previously known proteins and the 38 newly identified ORFs were compared to the complete set of SGRP reads using BLAST. A match was accepted (Figure S2) if the ends of the match were determined either by the ends of the ORF or by the ends of the read and at least 70% of the residues were identical. Two previous non-reference proteins and five hypothetical novel ORFs were identified in our version of S288c.The seven proteins found in our version of S288c (BIO6, RTM1, SGRP\_9, SGRP\_10, SGRP\_16, SGRP\_24 and SGRP\_28) were searched for in the published genome. BIO6, RTM1, SGRP\_9, SGRP\_10, SGRP\_9, SGRP\_10, SGRP\_10, SGRP\_10, SGRP\_10, SGRP\_24 and SGRP\_28 have matches with the published reference S288c genome, however they are quite divergent and the matched sequence seems to be the same as the matched S288c reads. The level of divergence resulted in rejection by PALAS. SGRP\_16 finds no match in published genome, but a good match in our S288c (97% id., 99% positives) with first 92 residues of the ORF.

Identifier: SGRP\_Hypothetical protein\_1

Sequencing reads: SK1-7c04.p1k and SK1-10i11.p1k

MEPISSGSSLQSNMRETVQSQNAEILPQMSNENKNKPSCEHFESVGEYIMVGGRLFKKSDTNTYLEDLG PGTPVEQPGQVGFANPLPLGLASFSFMCLTLGLVNARVRGVTNLYLLNASFIFGGAVVLLSGLLSFCVG DTFCMTVFGSFGGFWISWGCLNLEQFGVTKAYADDPQALQNVLGFYLAGWTVFNFLVMVCSMKSTWGIF LLLLFLDLTFLMLCIGSFTQSTNVSMAGGYFGILSSCCGWYSLYCSIANKDSSYVPLVAYPMPGSQIV **Top BLAST hit:** hypothetical protein SCRG\_02225, *S. cerevisiae* RM11-1a

Putative functional domain: pfam01184, Grp1\_Fun34\_YaaH, GPR1/FUN34/yaaH family.

Identifier: SGRP\_Hypothetical protein\_2

Sequencing reads: UWOPS05\_227\_2-15k24.p1k

Predicted protein sequences:

MFAIITPVALTPAILVMAYLEHQANKTGEIPVGSDPLAKKKVEVTESHISGFKQYLELLKASLIEIDAF GLILLGFAFSLILLPCSLYSYAEGGWNNPSMIAMEVVGGIFLITYVVFEVFFAPFPLLPKRVLMNRTFI CCVIIDFIYQMAGYFSLLFFTSYTFVVLNLSYRDWVYLSNTTTMGLCFFGVVWGALFRCFHRYKIFQVV GIAIKLIGMGLYVACSKQGW

Top BLAST hit: GENE ID: 2894316, KLLA0E24849g, hypothetical protein, Kluyveromyces lactis

**Putative functional domain:** Fungal trichothecene efflux pump (TRI12). This family consists of several fungal specific trichothecene efflux pump proteins. Many of the genes involved in trichothecene toxin biosynthesis in Fusarium sporotrichioides are present within a gene cluster. It has been suggested that TRI12 may play a role in F. sporotrichioides self-protection against trichothecenes.

Identifier: SGRP\_Hypothetical protein\_3

Sequencing reads: UWOPS05\_217\_3-3b07.p1k

**Predicted protein sequences:** 

MGLNILLEAVKARAGIDVYHISLFCGVASLFDRITCSENGAEKQYNHPGRIVLMEITCIFIFVRVCCLV YRQYKKVSKEELMAILTDFDHTTARFCNETLDIRSDLFQHIIRDKNKSDYHRDIIHGIEKVLGREIITT IESCEREVLSSDEYRQAQYMGNVATKDLDYLRYYLNLDIFPELNTDDELWDDLKEIDKYYCSSV

Top BLAST hit: hypothetical protein SCY\_1426, S. cerevisiae YJM789

Putative functional domain: Not detected

Identifier: SGRP\_Hypothetical protein\_4

Sequencing reads: L\_1374-12c04.q1k, L\_1374-15n06.q1k

## **Predicted protein sequences:**

MSDKKSKKACEVCKRRKKRCSGGRPCDYCIKIDKQLACTYRVKVSSKTVKVTEKYLVNLKSKIKDLELQ LATRSNCHPNDVSTNDNPLVSSEDDEEDRDGMDDPSEGNNYYRLGNSACGKFLLRIKDSLGKSCQLRGD VRPSVIETISLETSPNMALIEQIVRENCPSPSEAKNWILAASNVIGADYMYIEPDYEKSVLDELIWTSD SHNADFVKYATEVTRFFTYLALGCLFNKDRSPEK

Top BLAST hit: KLLA0C18953p, Kluyveromyces lactis

Putative functional domain: Not detected

Identifier: SGRP\_Hypothetical protein\_5

Sequencing reads: DBVPG6044-29h08.q1k, DBVPG6044-24h21.p1k

**Predicted protein sequences:** 

MSAYLDNSINAANYQKNRITYPKSLYETVLQHHLGERNLAVDVGCGTGIGSFPLLDYFEKVVGCDPSEK MLQTARMIADTIPESSKRNVEFKETGGETLGKYFKEDSVDLIIAGESLQYTKFEQFFEQAHKILKPNGT LAYWFYCDPIFIDYPKANEIFKYFVYEDERFFKAFWPPEMDYVRHLGSTIEIPKNSFTDVYSEKYIPLK SEKAGKFLISEMISL

Top BLAST hit: hypothetical protein CaO19.2468, Candida albicans.

**Putative functional domain:** pfam08241, Methyltransferase domain. Members of this family are SAM dependent methyltransferases.

Notes: This hypothetical protein is specific to the West African lineage.

**Identifier:** SGRP\_Hypothetical protein\_6

Sequencing reads: NCYC110-12f22.p1k

#### **Predicted protein sequences:**

MLLHYFLLVASFMKFTIGNQTIWLDDLEHNLANGAPISIYDDIPDLNKTAMEIYSENTLDINWNGMNDF LDHLSETDNATLAKREDLLGVIINAIDPSKATNSDKLAKREESCEQGYTRSLYSRLTNWRTIRSLSSNI REFYYTYATAMIDNASGLASLGYSVAVDLKNRSNKQSCNGGSDWFDVYNKDGSKHTYLVAIAPWTTGKN CDTTATSGMLKEMTTWILDKAQEEHLSAWCSRYDNGGSWHADVRS

Top BLAST hit: KLLA0D00660g, hypothetical protein Kluyveromyces lactis

# Putative functional domain:

**Note:** This hypothetical protein is specific to the West African lineage and is also present in *S. mikatae* and *S. bayanus* 

Identifier: SGRP\_Hypothetical protein\_7

Sequencing reads: UWOPS03\_461\_4-5k23.p1k

**Predicted protein sequences:** 

MLRPLWCLLSCTVTKEQPLESYCIATKDLYGIDGVKAGESSRAYYNIYDGANATCPSVQRLIDMSAVIV GTLKLTHFENRETPTADYVDYHTPFNLRGDGYQSHFSSSCASGATEAAYD

Top BLAST hit: S. cerevisiae (unspecified strain)

Putative functional domain: PRK05962, Amidase superfamily

Note: ORF previously cloned nearby MEL1

Identifier: SGRP\_Hypothetical protein\_8

Sequencing reads: DBVPG6044-18g13.q1k, DBVPG6044-26f04.q1k, DBVPG6044-36o12.q1k

# Predicted protein sequences:

DPLDFQGLSIISCKTCRQRKIKCGRQFPKCQNCIKRSCECTYPRTFRKTSTKLTRKRRDVNARFYGFSS VNRSLFEVGMPFSNVDFELEGENAANQMKRFSSSPVFKKYIGDTKLILAAIQSVRSSISCSFFDETVDL NLLEQKIFSKQGADYQTLLLSYAVIIVSERFYETPPDVREVVSELDILLNECSDCSEKVSSLILLSEYY HYNFKIETAWKCIFLAASIGYALGLHTTSSKVWTMLVLQDSLLCSVLGRPTSISCVNSKLVSDQCDGWG EIAILLREGNDMLLNLKSETCVEKAISLDFKIDDVIERTKKNMSSSEKSDSSVNLLVGYLKVCILSASR IKLLFPFFTKHRSIKAQLDENCSSLAGCLCGLFQLLNASNLTSGDKKFPLRPHFFPAYCSVFQGFLLQF LYTSNELFKNFDETTNGANSIFLPKDLGRTGLFLPSLDVTSVLMEDYDLITGKVKFCSFMTDLFASFRS LLNQKKS

# **Top BLAST hit:**

**Putative functional domain:** cd00067, GAL4, GAL4-like Zn2Cys6 binuclear cluster DNA-binding domain, found in transcription regulators like GAL4. Domain consists of two helices organized around a Zn(2)Cys(6 )motif; Binds to sequences containing 2 DNA half sites comprised of 3-5 C/G combinations.

Note: well conserved in Saccharomyces sensu stricto complex

Identifier: SGRP\_Hypothetical protein\_9

Sequencing reads: DBVPG6044-22p13.q1k

**Predicted protein sequences:** 

DPLGAVDKNKYSGQLYTLPMLQAFNTLDSLGPGMFVTAQSVAISDGFSGNKTVSEIQFPVLFDSGTTYS TLPTEIADSIGKIFDGKYSSDDQGYIADCSKMNNTLLSIDFGGFDISANISNFVTRTKDHCLLNIEATD SGFVLGDAFLVDAYVVYDLEDYEVSIAQASFNSQGEDIEIISNSIPGAIPAPGYSSTWVYTPDSPIGTG DFLNMSWTSYSDYSEYQTLLSTATASSSSSSSSSDQTTTXKRNSGDRIQQSFFSFSLIPLLSYILL

Top BLAST hit: Aspartic proteinase yapsin-6 precursor S. cerevisiae RM11-1a

Putative functional domain: pfam00026, Eukaryotic aspartyl protease.

Identifier: SGRP\_Hypothetical protein\_10

Sequencing reads: 273614N-42n13.q1k

**Predicted protein sequences:** 

SIFHQWTSVIACFFSWVHTVCFLYQAFREGGTDGMQYQWKSQLIWRTGVPPLLFLTLLWLFSLLFIRKY IYELFLQFHWILAIGFYVSLFYHVYPELNTHMYLVGTIVIWFAQLLYRLVSKGYLRPGKTFMTSSIATI TLKGIGCIELIVKDIDMDYSPGQHILLRTIDKDVVENHPFSIFPSSHSPGALKILMRAQNGFTKSLYLS QCTAKRILVDGPYGGIERDVRSFTNLYLICSGSGISSCLPFLIRYGPLLQETNLRFIRLEWIIRYEEDI SWVSDELRYLTTILKRSFLEGRIVIKIYICSSGDP

Top BLAST hit: EDN63726.1, S. cerevisiae YJM789

Putative functional domain: pfam08030, NAD\_binding\_6, Ferric reductase NAD binding domain.

Identifier: SGRP\_Hypothetical protein\_11

Sequencing reads: 273614N-41n14.q1k

# Predicted protein sequences:

PEHMVFAWGGATIFCEVMAEMKRPMDFWKGMLCAQSLILVVYLFYGLFVYAYNGQFSYVTANMAIGSIG LQNAGNVLTIITGIIAMVLYGNIGIKVIYQGFLVTDFNFPSLTSRKGTFAWAGFVVVYWAIAYILGTAI PSISALVAIVGAFCILNFSYTFPFLFGFCLLCRQDAALADNFDAKTLTVEKADSYRSWSRWKRALGYGG TYRILIKVSLFLLFLASLATCGLCSYSAISGAIAVYQTNPAQPFTCTSPVA Top BLAST hit: GENE ID: 2900766, DEHA0C00484g, hypothetical protein, Debaryomyces hansenii

Putative functional domain: pfam01490, Transmembrane amino acid transporter protein.

**Identifier:** SGRP\_Hypothetical protein\_12

Sequencing reads: 322134S-11b12.p1k

# Predicted protein sequences:

DPIVTFGGAGGQHAVAVAESLGINEILAHRYSSILSAYGIFLADVVEEKQEPCFLNLNDPDDAKSARKR LDQLVKTCSESLIIQGFSETQILHEKYLNLRYEGTETSLMILEQNENWEFEKWFAEAHKREFGFAFSEK CVIVDDVRVRATAKSCVRDEEPVDEQLKRYKPRSVFAAKEASFFKNVYFDNGWLKTPVFKIDDMTYGSV VKGPAILADGTQTNIIPENSEAIVLKSHIFVKILRKSEENVSDEQKVPVDPVMLXIFSHRFMDIAXAMG TXLKKTSVSTXCEGRXDFSCALFXPRWXXVANAPHVPVHFGSMSTCIAA

Top BLAST hit: hypothetical protein SCRG\_03375 S. cerevisiae RM11-1a

**Putative functional domain:** pfam02538, Hydantoinase B/oxoprolinase. This family includes Nmethylhydaintoinase B which converts hydantoin to N-carbamyl-amino acids, and 5-oxoprolinase EC:3.5.2.9 which catalyses the formation of L-glutamate from 5-oxo-L-proline. These enzymes are part of the oxoprolinase family and are related to pfam01968.

Identifier: SGRP\_Hypothetical protein\_13

Sequencing reads: UWOPS05\_217\_3-1n08.q1k

**Predicted protein sequences:** 

MMPASFARVYLRENADRCIDTITEGSKNNISQERVNHKRISLYERNGCKLSFDSSTKDLVNVPLFPWNT EDMLVIMGSTTFMDYSLASHIVIEYGLYLRAIADLRIS

**Top BLAST hit:** Low similarity with *S. cerevisiae RDS1*, Zinc cluster protein involved in conferring resistance to cycloheximide

# Putative functional domain:

Identifier: SGRP\_Hypothetical protein\_14

Sequencing reads: UWOPS05\_227\_2-15g20.q1k

MFTERSXVXARNDAGEKDLVSVNDGLXQVPTSISSCNGEKIIKTRGVTRIEVVRERMSTKVTWILGLSI FLTSWVAALDATTTYNYQPYATSSFNRHSMLSTLTIANSVIGAVCKPFIAKISDLSSRPVTYFVVLVLY VIGFVITACSPTIAAYVIGSVFIAIGQSGISLMNMVIIADTTTLKWRSFFTSLLSVPYLVTTWISGYIV EDIINSNWRWGYGMFAIITPVALTPAILVMAYLEHQANKTGEIPVGSDPLAKKKVEVTESHISGFKQYL ELLKASGDP

Top BLAST hit: GENE ID: 2894316 KLLA0E24849g, hypothetical protein Kluyveromyces lactis

Putative functional domain: pfam00083, Sugar (and other) transporter

Identifier: SGRP\_Hypothetical protein\_15

Sequencing reads: UWOPS83\_787\_3-1g13.p1k

**Predicted protein sequences:** 

FVWNCTYAKIVRGIRCVGIDTSKYFEKVQLLIPVDVLFMKNFIPIVLAFALNNACLFSCLYIIDQYSQY AERDSPLLAGVKLVPLIICMVIGNALCAFESTKLKPRVGVALGFFLALAGSVILIQLHLVKEDVFWKIF FSSQALVGFGVAIFYPYALQIAVGGAPDQSKGIASGVAQTFGQLGIEITFSVMASVLGNINEMKGRTDA VQKFRTGFQNCSYFTVAVGALGFLVTAICIRDIHPPNDDNSDLESSIHRTKIEIDQEKSGSEGEA

Top BLAST hit: GENE ID: 2892277, KLLA0C18931g, hypothetical protein, Kluyveromyces lactis.

Putative functional domain: pfam07690, Major Facilitator Superfamily

Identifier: SGRP\_Hypothetical protein\_16

Sequencing reads: SK1-5f12.p1k

**Predicted protein sequences:** 

MGVEEFSIHVSENELEDLKRRLSSARIPKNVERKNWNFGTNAEYLAEVINYWKNSYDWRNIEQKLNGFH HFQTTISNIRIHYIHEKGKSANSIPIILTHGWPDSFLRYTKLIPLLTDPEKFGVSSGISFDVVIPSLPG FGFSDYPAGGSINNDTISDIWLELMKNKLGYDRFLAAGGDIGSGVTRYLGFKYPQNLIGIHLTDVGIIR DLLNQSQLQSFSSEEQEYCKIASDWLDKEAGYMKIQSTKPQTLAFGLTDSPVGLAAWILESFIPGETYR QFTPR

**Top BLAST hit:** gb|ABE98164.1, epoxide hydrolase S. paradoxus

Putative functional domain: pfam06441, EHN, Epoxide hydrolase N terminus

Identifier: SGRP\_Hypothetical protein\_17

Sequencing reads: SK1-31g11.p1k

# **Predicted protein sequences:**

GMGLYVACSKRDGSPGIGLVVAALVVTNFGDAANVMGTQVAAQAAVPHQDMAATISVLSLYSSIGAAIG TAITSAVWTDKLPGALSKYVPDKEKAAAFFESLTSIWEEPWGSVNREGAINAYQKVNYTLFCMGLGVSS IMFIVALFQTNYYLGDQQNCVEGEQKEDYHHNANGSKKTLLNRAFDFWK

Top BLAST hit: GENE ID: 2894305, KLLA0E24871g, hypothetical protein, Kluyveromyces lactis

# Putative functional domain:

Identifier: SGRP\_Hypothetical protein\_18

Sequencing reads: DBVPG6765-30e14.q1k

# **Predicted protein sequences:**

EDPLNVDYMDLDVPDNNISNEDGFDPKILIANTKLALHIGSVMKKVYVTSGDNDFITNIVDSLKQLELF RDSLDPELRVLPDIIESNRSIAVLTLRYHQIIIVTGRPLYLSLLKSTIRVTDELQDAKVKCVLAAVTNI CILNNLWNSGWFCIFGFLEAQCCFSSILMLVMETLNGDAFPELQIALSLNASMCKAGNITALDNYSRLK ELDSILFEAEKERQNREESSMKSLQSNRTTITEDGENSLVENESLHAKKISTLQDNAPLSEELRQDELN ANLPSLIELKSSGAGFELFSPETFRNLSKKLERWDASLDLPTGNSL

Top BLAST hit: GENE ID: 4840364 FST10, putative zinc-finger protein, Pichia stipitis

**Putative functional domain:** 

Identifier: SGRP\_Hypothetical protein\_19

Sequencing reads: YIIc17\_E5-3o17.q1k

# Predicted protein sequences:

HPFTGYLGSLMISKNVEKNFGLIFSPSIMFVMSAAFLIRILNNAHKYKLQSRHGVQENNIFFLSWGEFS AINSHHSPSHPNQEPELFFEPKTAANKTRTLLEALLGVAQFSIHAIRCLRINSPICSFHLIGAFISCAL WLPILIVIFCRITVYNQSMRWLSFNLFDLWVVCIVCYTILFSISIVAFRSVSVGHVDDEAEAFYIKWQF FTNLTLFFLTFTGKIEKSGSTTKTSA

Top BLAST hit: gb|EDO14338.1, hypothetical protein Kpol\_175p1, Vanderwaltozyma polyspora

# Putative functional domain:

Identifier: SGRP\_Hypothetical protein\_20

Sequencing reads: SK1-62i15.plk

**Predicted protein sequences:** 

MAFNKVTLLLKWFGDIRNKCQKSRYQLNVNVGLIFLGCTFDLLNVASMISLIDDLAKTYNISYTTASWS LTSYAVTFAGFIACMGRLGDIVGNSVLFTISCSLFAILSLLCAVMPNFPAFAVFRAIQGICAAGLVPCA YALIPILAPKEKVQTYFSIVSCGFSSTIGLGLIIGGAFAATKIGYRGIFYLTFAVMSVISLVALFFHL

Top BLAST hit: GENE ID: 2892277, KLLA0C18931g, hypothetical protein, Kluyveromyces lactis

**Putative functional domain:** COG2814, Arabinose efflux permease. Carbohydrate transport and metabolism.

Identifier: SGRP\_Hypothetical protein\_21

Sequencing reads: 322134S-20m09.q1k

**Predicted protein sequences:** 

MKGKIASVTGASGGIGYEIAIGFAQAGADVAMWYNTNPSIEKEVEGLSMKYGVKVKAYQCALTDGAKVA QTIKKIENDFGKIDIMIANAGIAWASGPLVDFAEXDSESCDAEWMKIMDVDVNSVYYVSKSIGSIFQKQ GYGSLVITASMSGHIANIPQYKLLITQLGQL

Top BLAST hit: GENE ID: 2906628, YALIOB16192g, hypothetical protein, Yarrowia lipolytica

Putative functional domain: PRK12825, fabG, 3-ketoacyl-(acyl-carrier-protein) reductase

Identifier: SGRP\_Hypothetical protein\_22

Sequencing reads: DBVPG6040-20m04.q1k

#### **Predicted protein sequences:**

GSLRALYSKVLRQEGVEAAARVNADFDRQTVRIDGRLVSFEYVREMKRDLARDFQVQMGLLGEWLEFGQ VADVYTTVMANKGVKVVDNISGRGSVFNVLDASSVAGYCMRFRNQEEAGEEHKRCRILKVISSITKLLM LSVWFNPGLPLRFPELSILSFGGSQRNLYFDAGDRVFIIRSRYNKNTKYDTRLLFLDAGVSAQLFWLIY VLWPF

Top BLAST hit: hypothetical protein SCY\_5432, S. cerevisiae YJM789

**Putative functional domain:** 

Identifier: SGRP\_Hypothetical protein\_23

Sequencing reads: BC187-29g19.q1k

**Predicted protein sequences:** 

EDPHYEKSVLDELIWTSDSHNADFVKYATEVTRFFTYLALGCLFNKDRSPEKTGSKFPGLQYFETALRL QSELLKVYDMMANTSLVQSFLYVAYYALSLDKPEFAYLTIGSAIRMVFTLNYHKKTTTFTENRVFWLCF VYDRLVSVRFGFPLMINELDIDVSLLNEPTISSQETLIDSCHFNWQVKLANIITQTLRKIYTRNSFSFI HNCYTVLKELKYWLDGLPDDLKIDMDNFSTTQPRSTINLHINYNYTIIITTRPVFLYVFNXVADSEQKA EELFPKKLLHTITTLLESSGQAAQIQSFIFTK

Top BLAST hit: GENE ID: 2892177, KLLA0C18953g, hypothetical protein, Kluyveromyces lactis

Putative functional domain: pfam04082, Fungal specific transcription factor domain.

Identifier: SGRP\_Hypothetical protein\_24

Sequencing reads: 322134S-17d07.q1k

**Predicted protein sequences:** 

MLQSLKQSGKVDKLWLFTNAYKNHGVRCVKLLGVADLFDGITYCDYAQRDTLICKPDVRAFERAKLQSG LGDYHNAWFVDDSGNNIDQGIALRMRKCIHLVEKEVDENLGKTPAGSHVIQEIIHLPKALPELF

Top BLAST hit: EDV10424.1, protein SSM1, S. cerevisiae, RM11-1a

Putative functional domain: COG1011, Predicted hydrolase (HAD superfamily)

Identifier: SGRP\_Hypothetical protein\_25

Sequencing reads: 322134S-18n10.q1k

# Predicted protein sequences:

MNAEERTSDSTLATIMMLAAFDIFFSDKRRKWRAHVYGAGRLIMERLCDSGSNMLTISDEGESNDLFFI TRWFSYVDIIGSLSSTSKVITSEKLRAIKYKFEKMTDQENWSRRRINLKDIEAGTGLEAKVLSYLADVS WLIREREQRQDANGGEITQKLLSQVLELDYEINAHLNESERERDEIFKAYYSQGRPEIHKGYRILRATN LIFGLTGPYD Top BLAST hit: Match with hypothetical protein SCRG\_03376, S. cerevisiae RM11-1a

**Putative functional domain:** 

Identifier: SGRP\_Hypothetical protein\_26

Sequencing reads: 322134S-1g05.q1k

# Predicted protein sequences:

MEKIELLNKQIDNSFTKDQTITLTSNLEKTTLRYHLKRSHVSDYYIDLIIKESISGKYLDWHFITENCY FEELSPCVSFFSCGNGKLEATKMLEKYPSLKDLLLSFGVSEATMDMLSTKESPITCTRQHDTLCEISPT ESMMHALSLYNNDNIYFLKYFICFILDRKVYESMDCDMIWCTKIYNTLSKEHFTKVYMSLVDKQDYLMH YR

Top BLAST hit: KRE29, S. cerevisiae, S288c

**Putative functional domain:** pfam08691, DNA repair protein Nse5. Nse5 is a non essential nuclear protein that is critical for chromosome segregation in fission yeast. Nse5 forms a dimer with Nse6 and facilitates DNA repair as part of the Smc5-Smc6 holocomplex.

Identifier: SGRP\_Hypothetical protein\_27

Sequencing reads: 322134S-7n18.q1k

# Predicted protein sequences:

MSKARKRSKVACSRCSCRKVRCSGDRPSCRACIISSNGNSCTYPLKSRKISVLDTDIKKMEEKMNALEA ECCRLRSIQRGHDCSSHPGKHMENLIDSNHFFPTMKPSADSSNCTTDELMLGSLEIKPKVPGNSSCQRF VGALRWHLIRNASGHDSAGGVAECLKYNVNEGRESLTKRLYLDDQERGDNQKAILPERAYASELIHRVY QFFAKEYGLFSITEFHVRLEETYRDVQSQDPSWLAYLMVTFAVGEQYTNDAAGVGI

Top BLAST hit: ref|XP\_001483600.1| hypothetical protein PGUG\_04329, Pichia guilliermondii

# Putative functional domain:

Identifier: SGRP\_Hypothetical protein\_28

Sequencing reads: DBVPG6040-15p11.q1k

# MTKTDQKTAVALNNQAIQDWNIPDIEVPTYPRKAVKEGIVHLGVGGFHRSHLALYMNRLMQNHGTKDWS ICGVGLMRFDAPMRDALQSQDCLYTLMERGIEKTTTQVIGSITSYMGI

Top BLAST hit: hypothetical protein SCRG\_03070, S. cerevisiae RM11-1a

Putative functional domain: pfam01232, Mannitol dehydrogenase Rossmann domain

Identifier: SGRP\_Hypothetical protein\_29

Sequencing reads: DBVPG6040-1p12.q1k

**Predicted protein sequences:** 

MIKQITNVTSEELVAILDIWLQANIDAHHFIPKEYWERNYEFVRSTLPKATLFTYCVGNEIVGFLGLMG SYIAGIFVKKQWRSCGIGRKLINTVKAEKMRLSLSVYDKNERAISFYLSEGFTLKEKKIESETNEIESI LFWASNR

Top BLAST hit: YJM-GNAT, S. cerevisiae YJM789

**Putative functional domain:** PRK10562, predicted acyltransferase with acyl-CoA N-acyltransferase domain

Identifier: SGRP\_Hypothetical protein\_30

Sequencing reads: DBVPG6040-2b02.q1k

**Predicted protein sequences:** 

LHXXVCLQILLLVPRSAGMTIVSALLYLCALRVTYNFEKMQDAMTXSGLTLGFYGGIAIVIGIPYQLLC MPETKNRTLEEIDDIFEKPTRQIIRENLSHLRKGRISY

Top BLAST hit: emb|CAC08232.1, fructose symporter, S. pastorianus

Putative functional domain: pfam00083, Sugar (and other) transporter.

Identifier: SGRP\_Hypothetical protein\_31

Sequencing reads: DBVPG6040-16j12.q1k

# MNRIACLGCRESKRQCDSEQPICSRCIKTGRTCRYELFSKRKPATNRYVQSLKNRIRSLEGVLKVSHEV EFENYKSKDVNVYPNLRELNFGRDVLEHPKKIR

Top BLAST hit: XP\_001482887.1, hypothetical protein PGUG\_04842, Pichia guilliermondii

Putative functional domain: pfam00172, Fungal Zn(2)-Cys(6) binuclear cluster domain

Identifier: SGRP\_Hypothetical protein\_32

Sequencing reads: DBVPG6044-25i22.p1k

**Predicted protein sequences:** 

MTLLVSSALAIDSNDLGFYNITLSWIDRNVTDSPENLVHIPPGANISDYITMYANTSTILKDLSTNIVY TDLLIVPPANLTDGQALNARSVKSYNYDGWQQSWKQVQTLRSGQWWSPWYPASHCFWNGKNAGGSVSVP IEMGYQYTWSMDWSAGLSSNVLSATVGMSVSSAVSRSMQVDCTXQRETMGQVW

Top BLAST hit: GENE ID: 2886474 CAGL0A02255g | hypothetical protein, Candida glabrata

**Putative functional domain:** COG4143, ABC-type thiamine transport system, periplasmic component, coenzyme metabolism.

Identifier: SGRP\_Hypothetical protein\_33

Sequencing reads: L\_1374-11i16.q1k

## **Predicted protein sequences:**

IPSALLFERAAGCESNEGSNGGWGSGWGGWKGGWGSGWKGGWGTGSKGGSKGGSKGGSIYNVAPHCPNL DFGWRADECDRMNFSMDLLAVDWIESETYGVTVKVQGAESIDWKYLSSLKLTGIDGPQSCVEVTKSNKD CSINSATEFTVSFPVYAQKIENEPCQVLMPSFQIEYEFLKGEAQQYSEGWKWGETCFNLESGCQHQSSS SKANCDFPLWHWNCGHIPGCPSSSSSTSTASGSSTTWTPITSETPCTETP

Top BLAST hit: gb|EDV12484.1| hypothetical protein SCRG\_03373, S. cerevisiae RM11-1a

## Putative functional domain:

**Identifier:** SGRP\_Hypothetical protein\_34

Sequencing reads: L\_1528-23b02.q1k

# MDDLATNNATILKRDSSDVSCVNETCQYVDYHVDDEGVITIDISTYRIPVEWDNGSAGNASYGVSKRDT KYETFCKKKICGINVSGFCNAYDFAVPAFDFGGNVYNLVSGITDRIKEATKRDKTECLGYELDHVGD

Top BLAST hit: gb|EDN61464.1| killer toxin [Saccharomyces cerevisiae YJM789]

# **Putative functional domain:**

Identifier: SGRP\_Hypothetical protein\_35

Sequencing reads: NCYC361-14b18.q1k

**Predicted protein sequences:** 

LSSSKSTRQTTLVTVTSCESGICSETASPAIISTATTTINDAVTVYTTWCSLTANDKGDTVEMNTSVGS TPAILEGSQTETVTKTNEKYSISESETHLPTATQNIIHSNGASSAPDTSKVEAIASTYLTTISQQPRRG S

Top BLAST hit: BAG49462.1, flocculin, S. pastorianus

Putative functional domain:

Identifier: SGRP Hypothetical protein 36

Sequencing reads: NCYC361-33h22.p1k

**Predicted protein sequences:** 

SCISFKRANVKYYMSFLVFSWSIITLSSGFVRSHKSLLALRVLLGTFEGGFFPAMTLIISIVYKPQEQA KRIAFFFGSAALSGAFGGLIATGLSSVKNGGGLEGWRWLYIIEGLISVCASVWLFFGLPAKFEVLPFLN ERECHLMSIRSKQRTQYMGSTEKFSWSCVKDAFLDFKTYLSFTIQFCQDTIMYGFSTFLTAILKMGLGF SSMQAQYLSVPVYILAGVVFLISAFLSDRFKMRGPIFFCYNLLGIVGYILLLSVGNDAVKYFACYLITF SLYTGTXLNISWXTNNMAPHYKRXTAF

Top BLAST hit: KLLA0C19019g, hypothetical protein, Kluyveromyces lactis

**Putative functional domain:** COG2271, UhpC, Sugar phosphate permease, Carbohydrate transport and metabolism

Identifier: SGRP\_Hypothetical protein\_37

Sequencing reads: UWOPS83\_787\_3-2i14.p1k

#### **Predicted protein sequences:**

# DLLIIAQMFFVLNVFNPFQGSFSYLAVCFPNYYASVMAGNGLFRAVFACAFPLFGRAMYKNLGTTKYPV AWGSSLIGFFGVGLAAIPFIMYKNGSKLRGRSRYAAA

Top BLAST hit: EDN64624.1, major facilitator transporter, S. cerevisiae YJM789

## **Putative functional domain:**

Identifier: SGRP\_Hypothetical protein\_38

Sequencing reads: 273614N-8k04.p1k

# **Predicted protein sequences:**

MSKLVPIASPNLSMMTSRAYDEAKKEKGSQGTIDHEKGEYVDISGREIISSESEKHGRQLPLQAYVHYA EIQREFERERDEDGLYAVQREQMYTDPHSNVSPSKLDSQRMLRIAKAYSVFFLITTDILGPSNAPYAVA QMGWVPGVILYVIFGVAAAFGGWLLNFCFCKVDSNNYPIRTFSDLAARVVAPWFRYPFGLLQFIQMILN CGLLLLSTAQSVSQMLV

Top BLAST hit: XP\_505107.1, hypothetical protein, Yarrowia lipolytica

Putative functional domain: pfam01490, Transmembrane amino acid transporter protein

#### rDNA analysis

Raw sequencing reads were processed in three stages. In stage one, using the rDNA consensus sequence derived from the *S. cerevisiae* reference strain S288c<sup>42,43</sup>, a series of 100 bp (rDNA) query sequences were selected at 20bp sliding intervals. These sequences were used for gapped BLAST queries against the complete *S. cerevisiae* whole-genome shotgun sequencing (WGSS) database to produce a fresh database of reads definitely containing rDNA sequence. In the second stage, less stringent BLAST searches were performed to produce alignments that might be quite divergent from the S288c consensus sequence. False positives due to sequencing error were accepted at this stage in order to ensure comprehensive sampling of variability. In the third stage, multiple alignments were generated using  $MUSCLE^{44}$  with the default parameters. At this stage, the original BLAST window

query was included with each stack of read fragments to be aligned to ensure the resulting output alignments could be compared to the S288c rDNA consensus sequence. In order to distinguish authentic sequence variation from variation due to sequencing error, PHRED quality (q) scores, published along with the WGSS database, were extracted and examined. To minimise the expected number of false positives due to sequencing error to less than one, candidate polymorphisms (base substitutions only) were accepted only if they appeared either in two or more covering reads with q scores >38, or in three or more reads if all q scores were >25. Using this strategy, rDNA polymorphisms were identified, their frequencies calculated, and their positions mapped (in relation to the S288c rDNA consensus sequence) for each individual *S. cerevisiae* strain.

#### Analaysis of Ty abundance

Ty element abundance was estimated from the ABI shotgun sequencing reads using a custom RepeatMasker library for both *S. cerevisiae* and *S. paradoxus* constructed as follows: (1) all "Saccharomyces" repeats (including TEs, simple repeats and RNA genes) were exported from the RepeatMasker 20061006 library; (2) the TY element was removed since it is redundant with Ty1; (3) the Ty4 entry was replaced with two entries: one for the internal region (633-6116) and one LTR entry (262-632) from GenBank accession X67284; (4) the LTR (AY198187.1) and internal region (AY198186.1) for Ty3-1p<sup>32</sup> was added; (5) all names were standardized to a common format. RepeatMasker open-3.1.6 was run on each strain using the parameters "-s -nolow -xsmall gff -no\_is" and Ty element content for each strain was estimated from the LTR component of the RepeatMasker ".tbl" file.

# Global phenotyping of yeast isolates

Sequenced strain isolates as well as 10 individual replicates of the haploid reference strain BY4741<sup>45</sup> were subjected to precise phenotyping in 67 experimental conditions using a high-resolution microcultivation approach. Two consecutive rounds of 48-hour pre-cultivation in SC media (0.14% yeast nitrogen base, 0.1% monosodium glutamic acid, 1% succinic acid, 2% (w/v) glucose and 0.077% Complete Supplement Mixture (ForMedia), pH 5.8) were followed by a 72-hour cultivation in stress media (see Figure S9) using micro-cultivation instruments Bioscreen C (Growth curve Oy, Finland). Readings of optical density were taken every 20 minutes. Strains were tested as duplicates (N=2). Growth curves were calibrated and the growth variables growth lag (adaptation time, h), growth rate (doubling time, h) and growth efficiency (change in cell density, OD units) calculated as earlier described<sup>46,47</sup>. Growth variables were normalized to the behaviour of the 20 BY4741 replicates forming the ratio LN (BY4741/isolate). This ratio is referred to as LSC, Logarithmic Strain Coefficient, and reflects strain isolate sensitivity relative the reference strain BY4741.

$$LSC_{ij} = \frac{1}{2} \sum_{r=1}^{2} \left[ \frac{1}{20} \sum_{k=1}^{20} \log(wt_{kj}^{r}) - \log(x_{kj}^{r}) \right]$$

 $wt_{kj}$  is the growth variable of the k<sup>th</sup> measurement of the wild-type in environment j,  $x_{kj}$  is the growth variable of strain i in environment j and r indicates the run. In total, 60,000 growth curves, corresponding to 12 million measurements of optical density, were evaluated.

To test for statistical significance of environments where *S. paradoxus* phenotypes are clearly distinct from *S. cerevisiae* phenotypes a two sample Student's t-test and Boole-Bonferroni correction was carried out. The phenotypes most clearly ( $p<10^{-9}$ ) separating the two species were strong *S. paradoxus* resistance to cycloheximide and sensitivity to paramomycin, heat and copper. Similarly, using a two sample Student's t-test it was found that the overall characteristic separating the two main groups of *S. cerevisiae* strains, one containing most of the Wine/European lineage and most of the long-branch recombinants, the other mainly consisting of the North American, Malaysian and African lineages, was rapid growth (short lag and steep slope in rate,  $p<10^{-4}$ ) for the Wine/European and mosaics. To test for differences in degree of phenotypic variation among *S. paradoxus* strains (excluding the Hawaiian isolate) as compared to among *S. cerevisiae* strains a two sample Student's t-test was carried out comparing the overall phenotypic variatice averaged over all environments (equal weights) within each species. It was found that *S. paradoxus* show significantly (p=0.002) lower phenotypic variation. A similar test also revealed that there was no significant (p=0.78) deviation in phenotypic variation

	Source or location <sup>a</sup>	Strains	<sup>⊳</sup> ABI	<sup>c</sup> IGA
S. cerevisiae		36	43.3	37.3
	Fermentation	13	11.4	
	Clinical	6	5.6	
	Wild	9	10.0	
	Laboratory	4	10.6	37.3
	Baking	3	2.6	
	Unknown	1	3.1	
S. paradoxus		35	38.5	151.8
	England	18	10.7	71.8
	Continental Europe/Siberia	6	12.6	80.0
	Far East Russia/Japan	4	6.8	
	North & South America	6	6.8	
	Hawaii	1	1.6	

Table S1. Origin of strains and sequence coverage

<sup>a</sup>Geographic origin of *Saccharomyces* strains and more detailed information are given in Supplementary table S2. Number of <sup>b</sup>ABI and <sup>c</sup>Illumina GA (Solexa) nucleotides successfully aligned and divided by the genome size estimate to give total coverage depth for each category of strains.

OS	STRAIN	Geographic, Isolated by, Year and references	Source	Provided by	Notes, genotype
96	S288c	Merced, California, USA, Mrak E, 1938 <sup>48</sup>	Rotting fig	Haber JE	Laboratory strain used in the genome project. Mat $\boldsymbol{\alpha}$
17/A	SK1	USA, Kane S, pre-1974 <sup>49</sup>	Soil	Haber JE	Laboratory strain used in meiotic studies.
281	W303	Created by Rothstein R by multiple crossing <sup>50,51</sup>	NA	EUROFAN	Laboratory strain,64/A Mat a, ura3-1, trp1-d2, leu2-3, his3-11, ade2- 1, can1-100
97/A	Y55	France, Winge Ö, between 1930-60 <sup>52</sup>	Grape	Haber JE	Laboratory strain
284/A	322134S	Royal Victoria Infirmary, Newcastle UK, Galloway A	Clinical isolate (Throat- sputum)	Mackenzie D	Mat a
287/A	378604X	Royal Victoria Infirmary, Newcastle UK, Galloway A	Clinical isolate (Sputum)	Mackenzie D	Mat α
288/A	273614N	Royal Victoria Infirmary, Newcastle UK, Galloway A	Clinical isolate (Fecal)	Mackenzie D	
258/A/A	YS2	Australia <sup>53</sup>	Baker strain	Bell P	
259/A/A	YS4	Netherlands, 1975, Barnett J <sup>53</sup>	Baker strain	Bell P	NCYC817
262/A/A	YS9	Singapore <sup>53</sup>	Baker strain	Bell P	Le Saffre yeast, commercial
270/A	UWOPS83- 787.3	Great Inagua Island, Bahamas, 1983, Lachance M	Fruit, <i>Opuntia stricta</i>	Lachance M	
271/A	UWOPS87- 2421	Puhelu Road, Maui, Hawaii, Lachance M, 1987	Cladode, <i>Opuntia</i> megacantha	Lachance M	
220/A	L-1374	Cauquenes, Chile, Ganga A, 1999	Fermentation from must País	Martinez C	
221/A	L-1528	Cauquenes, Chile, Ganga A, 1999	Fermentation from must Cabernet	Martinez C	
181	BC187	Napa Valley, Bisson L, USA <sup>54</sup>	Barrel fermentation	Gerke J	Spore derivative of UCD2120
150/A	DBVPG1106	Australia, 1947, Fornachon J	Grapes	Vaughan A	
91/A	DBVPG1373	Netherlands, Capriotti A, 1952 <sup>55,56</sup>	Soil	Vaughan A	
3/A	DBVPG6765	Unknown <sup>55,56</sup>	Unknown	Vaughan A	Previously regarded as <i>S. boulardii</i>
174	YIIc17_E5	Sauternes, France	Wine	Souciet JL	
155/A	DBVPG6040	Netherlands, 1947 <sup>57</sup>	Fermenting fruit juice	Vaughan A	Previously regarded as <i>S. fructuum</i> .
248/A/A	NCYC361	Ireland, Gilliland R, 1952 <sup>58</sup>	Beer spoilage strain from wort	NCYC	Previously regarded as <i>S. diastaticus</i> .

84/A	DBVPG1788	Turku, Finland, Capriotti A, 1957 <sup>55,56</sup>	Soil	Vaughan A	
92/A	DBVPG1853	Ethiopia, Rossi J, 1959 <sup>55,56</sup>	White Teff	Vaughan A	
303/A	YJM978	Ospedali Riuniti di Bergamo, Italy, 1994-6 <sup>59</sup>	Isolated from vagina of patient suffering from vaginitis	McCusker J	
304/A	YJM981	Ospedali Riuniti di Bergamo, Italy, 1994-6 <sup>59</sup>	Isolated from vagina of patient suffering from vaginitis	McCusker J	
308/A	YJM975	Ospedali Riuniti di Bergamo, Italy, 1994-6 <sup>59</sup>	Isolated from vagina of patient suffering from vaginitis	McCusker J	
278/A	UWOPS03- 461.4	Telok Senangin, Malaysia, Wiens F, 2003 <sup>60</sup>	Nectar, Bertram palm	Lachance M	
279/A	UWOPS05- 217.3	Telok Senangin, Malaysia, Lachance M, 2005	Nectar, Bertram palm	Lachance M	
280/A	UWOPS05- 227.2	Telok Senangin, Malaysia, Lachance M, 2005	<i>Trigona</i> spp (Stingless bee) collected near Bertam palm flower	Lachance M	
251/A/A	K11	Japan, 1981 <sup>61</sup>	Shochu sake strain	Fay J	Awamori-1
252/A	Y9	Indonesia, pre-1962 <sup>61</sup>	Ragi (similar to sake wine)	Fay J	
253/A/A	Y12	Ivory Coast, pre-1981 <sup>61</sup>	Palm wine strain	Fay J	
182	YPS606	Pennsylvania, USA, Sniegowski P, 1999 <sup>62</sup>	Bark of Q. <i>rubra</i>	Gerke J	Woodland isolate. Spore derivative of YPS142
104/A	YPS128	Pennsylvania, USA, Sniegowski P, 1999 <sup>62</sup>	Soil beneath <i>Q. alba</i>	Sniegowski P	Woodland isolate
247/A	NCYC110	West Africa, Guilliermond A, pre-1914 <sup>63</sup>	Ginger beer from Z. officinale	NCYC	Previously regarded as <i>S. chavalieri</i> .
60/A	DBVPG6044	West Africa, Guilliermond A, 1925 <sup>55,56</sup>	Bili wine, from Osbeckia grandiflora	Vaughan A	Previously regarded as <i>S. manginii</i>

Table S2 A

OS	STRAIN	Geographic, Isolated by, Year	Source	Provided by	Notes and genotype
298//	A Q31.4	Windsor Great Park, UK Koufopanou V, 1998 <sup>64</sup>	Bark of Quercus spp	Koufopanou V	
167/	A Q32.3	Windsor Great Park, UK Koufopanou V, 1998 <sup>64</sup>	Bark of Quercus spp	Koufopanou V	
168/	A Q59.1	Windsor Great Park, UK Koufopanou V, 1998 <sup>64</sup>	Bark of Quercus spp	Koufopanou V	
169/	A Q62.5	Windsor Great Park, UK Koufopanou V, 1998 <sup>64</sup>	Bark of Quercus spp	Koufopanou V	
296/	A Q69.8	Windsor Great Park, UK Koufopanou V, 1998 <sup>64</sup>	Bark of Quercus spp	Koufopanou V	
294/	A Q74.4	Windsor Great Park, UK Koufopanou V, 1998 <sup>64</sup>	Bark of Quercus spp	Koufopanou V	
170/	A Q89.8	Windsor Great Park, UK Koufopanou V, 1998 <sup>64</sup>	Bark of <i>Quercus</i> spp	Koufopanou V	
171/	A Q95.3	Windsor Great Park, UK Koufopanou V, 1998 <sup>64</sup>	Bark of Quercus spp	Koufopanou V	
172/	A S36.7	Silwood Park, UK, Koufopanou V, 1997 <sup>64</sup>	Bark of <i>Quercus</i> spp	Koufopanou V	
40/A	T21.4	Silwood Park, UK, Koufopanou V, 1998 <sup>64</sup>	Bark of <i>Quercus</i> spp	Koufopanou V	
297/	A W7	Silwood Park, UK, Koufopanou V, 1996 <sup>64</sup>	Bark of <i>Quercus</i> spp	Koufopanou V	
165/	A Y6.5	Silwood Park, UK, Koufopanou V, 2003 <sup>65</sup>	Bark of Quercus spp	Koufopanou V	
164/	A Y7	Silwood Park, UK, Koufopanou V, 2003 <sup>65</sup>	Bark of Quercus spp	Koufopanou V	
302/	A Y8.1	Silwood Park, UK, Koufopanou V, 2003 <sup>65</sup>	Bark of <i>Quercus</i> spp	Koufopanou V	
299/	A Y8.5	Silwood Park, UK, Koufopanou V, 2003 <sup>65</sup>	Bark of Quercus spp	Koufopanou V	
293/	A Y9.6	Silwood Park, UK, Koufopanou V, 2003 <sup>65</sup>	Bark of Quercus spp	Koufopanou V	
301/	A Z1	Silwood Park, UK, Koufopanou V, 2003 <sup>65</sup>	Bark of Quercus spp	Koufopanou V	
173/	A Z1.1	Silwood Park, UK, Koufopanou V, 2003 <sup>65</sup>	Bark of Quercus spp	Koufopanou V	
26/A	N-17	Tartastan, Russia <sup>66</sup>	Exudate of Q. robur	Naumov G	
142	CBS432	Moscow area, Russia, pre- 1931 <sup>66</sup>	Bark of Quercus spp	Naumov G	Neotype strain of S. paradoxus
98/A	CBS5829	Denmark, Jensen V, pre- 1967 <sup>66</sup>	Mor soil, pH3.6	Naumov G	

28/A	DBVPG4650	Marche, Italy, Bartolini, pre- 1992 <sup>55,56</sup>	Fossilized guano in a cavern	Vaughan A	
254/A	KPN3828	Novosibirsk, Siberia, Russia, Yurkow A, 2003 <sup>67</sup>	Bark of <i>Q. robur</i>	lurkow A	
255/A	KPN3829	Novosibirsk, Siberia, Russia, Yurkow A, 2003 <sup>67</sup>	Bark of <i>Q. robur</i>	lurkow A	
76/A	N-43	Vladivostok, Russia, Naumov G, 1987 <sup>68</sup>	Exudate of <i>Q. mongolica</i>	Naumov G	
77/A	N-44	Ternei, Russia, Naumov G, 1987 <sup>68</sup>	Exudate of <i>Q. mongolica</i>	Naumov G	
78/A	N-45	Ternei, Russia, Naumov G, 1987 <sup>68</sup>	Exudate of <i>Q. mongolica</i>	Naumov G	
137/A	IFO1804	Japan <sup>68</sup>	Bark of Quercus spp	Pérez-Ortín J	
115/A	YPS138	Pennsylvania, USA, Sniegowski P, 1999 <sup>62</sup>	Soil beneath Q. velutina	Sniegowski P	
32/A	DBVPG6304	Yosemite, California, USA, Phaff H, 1951 <sup>69</sup>	Drosophila pseudoobscura	Vaughan A	
186/A	A4	Mont St-Hilaire, Quebec, Canada, Bell G and Replansky T, 2003 <sup>65</sup>	Bark of Quercus rubra	Koufopanou V	
187/A	A12	Mont St-Hilaire, Quebec, Canada, Bell G and Replansky T, 2003 <sup>65</sup>	Soil beneath <i>Q. rubra</i>	Koufopanou V	
20/A	UFRJ50791	Catalao point, Rio de Janeiro, Brazil, pre-1992 <sup>70</sup>	Drosophila spp	Naumov G	Previously regarded as <i>S. cariocanus</i>
21/A	UFRJ50816	Tijuca Forest, Rio de Janeiro, Brazil, pre-1992 <sup>70</sup>	Drosophila spp	Naumov G	Previously regarded as <i>S. cariocanus</i>
273/A	UWOPS91- 917.1	Saddle Road, Island of Hawaii, 1991, Lachance M	Flux of Myoporum sandwichense	Lachance M	

Table S2 B

**Table S2** provides additional information on *S. cerevisiae* (A) and *S. paradoxus* (B) strains sequenced.OS column is the accession number in the internal collection at the University of Nottingham.OSNNN/A means a single spore was isolated from the original diploid and NNN/A/A indicates thisprocess was repeated. The absence of any /A indicates that either the strain was haploid, as for S288cand W303, or a monosporic culture was provided.

Strain	Bases	Total	Reads	%	Seque-	Seque-	Imputed	Imputed	SNP	SNP	SNP	SNP
	aligned to	bases	placed	unplaced	nced	nced at	(10)	at	rate	rate	rate	rate
	ref	aligned	P	reads	(S0)	a≥40	()	a > = 40	for	for	for I0	for
					(~~)	(S40)		(140)	S0	S40		140
S cerevisiae						(0.0)		()	~ ~	~		
273614N	10603108	10805160	10843	2 46	55 54	34 10	95.56	56.18	12 59	4 92	4 35	3 54
3221348	11139085	11313055	11524	3.01	55.57	34.43	95.80	54.77	13.06	4.98	4 20	3.36
378604X	12240646	12411973	12465	2.06	60.44	38.17	95.80	59.80	12.67	4.92	4 20	3 32
BC187	7960409	8030840	0337	2.00	45.65	20.17	95.59	55.34	7 76	4.16	4.02	3.32
DDVDC1106	8205777	8202548	9760	1.24	43.03	25.11	05.50	47.08	11 49	4.10	4.02	3.32
DDVF01100	15422642	15592005	8700 17704	1.34	44.00	20.04	95.30	47.90	6 75	4.30	2.07	2.52
DDVPG15/5	13433042	13382903	1//94	1.28	08.31	31./1	93.89	80.04	0.73	4.00	2.05	3.32
DBVPG1/88	13/04629	13833301	10399	1.08	04.13	40.19	96.04	79.33	1.27	4.13	3.95	3.31
DBVPG1853	11023893	1114/625	12930	3.59	55.26	38.67	95.61	55.66	8.18	5.17	4.64	3.45
DBVPG6040	9974326	10088246	10503	2.75	52.04	51.68	95.01	51.64	11.38	4.55	4.13	3.19
DBVPG6044	16/48247	17019143	20328	2.52	69.80	53.95	95.79	90.32	9.07	7.09	7.12	6.56
DBVPG6765	37690033	38082045	43970	2.27	91.54	83.25	97.02	93.20	5.04	4.11	4.17	3.78
K11	10427849	10572577	10850	1.28	55.79	35.81	95.47	57.23	12.09	5.89	5.26	4.35
L-1374	11737402	11841250	13685	1.51	57.73	41.29	96.02	73.46	7.24	4.06	3.98	3.48
L-1528	12776138	12885697	15212	1.51	60.81	43.97	95.79	75.35	7.46	4.23	3.98	3.42
NCYC110	9984080	10152441	10537	3.38	49.60	30.75	95.88	85.34	13.24	7.44	7.06	5.78
NCYC361	6831285	6950628	7949	4.51	31.93	20.09	95.34	31.40	12.29	5.14	4.18	3.52
RM11 1A	27763127	28126688	27862	10.62	95.96	93.26	96.55	95.89	4.25	3.98	4.19	3.64
S288c	14587575	14646276	17059	2.30	97.63	87.44	98.45	97.80	0.18	0.06	0.06	0.05
SK1	39677434	40422817	47667	2.80	96.75	95.56	97.18	96.61	6.90	6.75	6.83	6.59
UWOPS03.461.4	11594012	11771328	12086	2.46	59.20	38.17	94.61	82.72	13.59	7.37	6.91	5.70
UWOPS05.217.3	11372857	11558874	11732	2.83	51.68	34.64	95.16	77.77	13.65	7.27	6.87	5.50
UWOPS05.227.2	12250830	12443738	12906	1.93	60.33	40.29	94.70	83.67	12.25	7.31	6.93	5.80
UWOPS83.787.3	10942739	11121026	11371	1.28	54.93	35.47	95.62	54.54	12.39	5.76	5.30	4.11
UWOPS87 2421	11287925	11414229	11504	1.76	56.99	36.56	95.43	56.99	13.06	6.20	5 38	4 31
W303	30587568	30825148	30491	2.08	96.20	71.05	98.03	97.19	1 77	0.88	0.89	0.72
V12	10286038	10405760	10500	2.00	54.42	33 32	94.92	67.96	13.10	5.98	5 35	4 59
V55	/10200058	10403700	50320	2.03	96.66	94.10	97.92	96.59	6.16	6.00	6.08	5.84
155 V0	0503/28	9711005	0705	1.50	51.55	21.84	04.07	66.44	12.04	6.06	5.32	1.61
19 VII:017 E5	9393420	9/11095	9703	1.30	50.49	28.00	94.97	60.57	12.94	0.00	3.32	2.05
YIN790	11//3493	22002004	12212	1.82	39.48	38.99	93.74	00.37	5 12	4.83	4.4/	3.83
Y JM / 89	22/43301	22902904	22961	0.65	90.00	95.50	97.27	96.47	5.15	4.78	5.10	4.18
YJM975	12519002	12654653	12916	1.16	61.69	41.32	95.32	81.55	9.28	4.09	3.98	3.53
YJM978	12339657	12490681	12526	1.18	60.79	40.65	95.50	81.29	10.03	4.25	4.02	3.59
YJM981	8505186	8/12822	8140	6.25	33.17	19.54	95.48	50.76	11.06	4.60	3.92	3.37
YPS128	15381113	15571993	17720	1.61	68.68	51.66	95.75	87.09	8.14	5.83	5.75	5.05
YPS606	18570601	18799911	22003	1.77	73.85	57.44	95.67	87.05	8.16	5.76	5.78	5.08
YS2	7463314	7622329	8868	3.19	38.26	24.01	95.41	38.23	11.67	4.93	4.22	3.39
YS4	12542187	12739908	12717	1.90	60.61	40.43	95.71	59.65	10.88	4.73	4.59	3.50
YS9	11094911	11259544	11488	6.01	56.76	35.03	95.41	55.23	12.05	4.73	4.22	3.16
S. paradoxus												
A12	13246933	13637501	16192	2.48	64.33	46.86	96.14	63.63	41.30	36.70	37.99	37.15
A4	13705162	14093209	16964	3.39	66.56	49.51	96.18	65.92	40.70	36.98	37.96	37.35
CBS432	49822103	50456282	53230	1.68	96.72	89.14	99.24	96.43	2.46	1.41	1.39	0.77
CBS5829	31072885	31360291	36052	2.15	90.22	79.16	99.15	89.91	2.56	1.32	1.24	0.68
DBVPG4650	17021020	17215542	20954	2.64	73.18	55.87	98.63	72.76	3.63	1.41	1.15	0.52
DBVPG6304	16922088	17359001	21136	2.03	72.93	57.54	96.18	72.30	40.26	37.48	38.11	37.36
IFO1804	10069462	10248290	11102	1 35	54 57	35 47	97 37	53.88	16 79	12.07	12.26	11.68
KPN3828	9906538	10017405	11094	2 51	54.62	35.99	98.12	53 71	6 38	1 75	1 24	0.68
KPN3829	9704300	9814838	10851	1 76	52 70	34 47	98.06	51.87	5 44	1 58	1.21	0.69
N-17	33782511	34131107	39860	2 20	91 49	81 54	98.98	91.07	2.62	1.55	1 44	0.74
N_43	18308240	18605067	212/2	1.60	75 76	59.62	97 /0	75.87	14 60	12 16	12 54	12.09
N-44	15202452	15560627	18502	1.00	60.89	52.05	07 11	60.61	14.00	12.40	12.34	12.00
N 45	13273032	28085209	10302	2 22	07.00	92.26	07.75	02.01	14./3	12.42	12.40	12.09
021.4	0	30003308	44904	2.32	92./1	05.30	91.13	72.4U	13.09	12.4/	12.00	0.75
Q31.4	U 14700062	U 14051000	17041	1.42	99.70	90.01	99.90	98.82	1.05	0.88	0.91	0.75
Q32.3	14/09963	14851989	1/841	1.43	68.23	49.83	98.79	0/.//	4.21	1.11	0.83	0.39
Q39.1	14218580	14360/98	1/180	1.25	6/.4/	46.15	98.62	66.96	4.70	1.43	0.84	0.39
Q62.5	15131650	15278084	19192	1.54	68.56	50.88	98.78	68.11	4.25	1.27	0.96	0.53

Q69.8	0	0	0		99.77	96.67	99.94	99.00	0.99	0.83	0.85	0.70
Q74.4	0	0	0		74.38	7.14	99.61	70.74	10.13	1.68	1.14	0.38
Q89.8	10000133	10082699	11767	1.05	52.97	36.53	98.35	52.52	4.19	1.04	0.82	0.37
Q95.3	16859478	17015684	20580	1.37	73.81	57.37	98.94	73.43	3.31	1.07	0.81	0.39
S36.7	5432507	5475365	6180	2.03	34.59	21.36	97.82	33.96	4.91	1.34	1.53	0.42
T21.4	15997317	16139255	18913	1.33	70.96	51.93	98.89	70.54	3.89	1.06	0.76	0.37
UFRJ50791	8443837	8720036	9241	2.78	46.46	29.08	95.99	45.42	43.85	35.88	37.12	36.60
UFRJ50816	13051390	13442447	15815	3.51	61.26	44.48	96.08	60.55	41.33	36.81	37.85	36.87
UWOPS91.917.1	18989853	19444281	20307	3.79	73.48	55.72	95.84	70.58	42.33	37.10	36.96	23.37
W7	0	0	0		92.73	19.93	99.80	90.16	2.55	0.87	0.86	0.44
Y6.5	11593491	11694293	14035	1.29	59.59	43.14	98.65	59.23	3.65	1.12	0.88	0.48
Y7	13637595	13749127	17572	1.88	64.65	47.81	98.81	64.26	3.67	1.05	0.85	0.37
Y8.1	0	0	0		87.32	30.44	99.76	84.19	4.53	0.88	0.85	0.40
Y8.5	0	0	0		74.32	5.88	99.59	70.41	8.50	1.44	1.08	0.36
Y9.6	0	0	0		72.37	4.08	99.60	69.01	9.25	2.43	1.08	0.43
YPS138	14478872	14880967	18003	2.61	67.21	51.04	96.16	66.59	40.38	36.84	37.98	37.27
Z1.1	10879740	10986081	13006	1.18	55.57	39.59	98.61	54.93	3.74	1.13	0.86	0.41
Z1	0	0	0	2.46	85.69	29.07	99.78	82.18	5.46	1.01	0.97	0.42

**Table S3.** Genome assembly statistics. Columns indicate: strain name; number of nucleotides from ABI reads of this strain that were aligned to reference nucleotides in the final assembly; the same, but counting inserted nucleotides too; number of ABI reads placed; percentage of ABI reads that were judged good quality but that didn't get placed, mostly because of some kind of ambiguity, uncertainty or clash; "S0", percentage of reference positions that were aligned to a nucleotide of any quality in the strain (i.e. fraction of reference covered), including both ABI and Solexa reads; "S40", as S0, but counting only positions of quality  $\geq$ 40; "I0", as "S0", but from the imputed data; "I40", as I0 but counting only positions of quality  $\geq$ 40; then for each of S0, S40, I0 and I40, the number of differences per thousand whose value was different from the reference, out of all positions of the respective type.

Chromosome	Position	SGD	SGRP	Quality
chr01	3836	C	-	44
chr01	3981	A		45
chr01	5244	G	A	40 57
chr01	6454	c	-	36
chr01	6756	-	А	47
chr01	6756	-	А	44
chr01	21531	-	А	63
chr01	25341	С	A	93
chr01	25498	G	A	93
chr01	25507	C	1	90
chr01	25510	G	A	84
chr01	25515		G	04 78
chr01	25585	A	G	64
chr01	25612	G	A	93
chr01	25711	Α	Т	62
chr01	25712	Α	Т	83
chr01	25713	С	G	76
chr01	25714	G	A	78
chr01	25765	G	A	93
chr01	25766		C	93
chr01	25769		G	93
chr01	25779	G	С т	93
chr01	25703	G	Δ	93
chr01	25794	C	Ť	93
chr01	25795	Ă	G	93
chr01	25798	A	G	93
chr01	25799	G	Č	91
chr01	25801	G	Α	93
chr01	36120	С	А	38
chr01	36814	А	С	57
chr01	40231	С	G	53
chr01	41240	A	G	42
chr01	41664	Т	G	45
chr01	41700	C	A	60
chr01	41703	C	A	66
chr01	47821		A	39
chr01	4/620	Т	۱ ۸	39
chr01	40772	C	Δ	57
chr01	50327	č	A	60
chr01	55746	A	G	52
chr01	55954	A	T	53
chr01	58196	Α	С	60
chr01	58247	А	С	60
chr01	58424	С	Т	66
chr01	62767	A	G	39
chr01	70794	C	G	60
chr01	96740	G	C	48
chr01	97025	A		51
chr01	97020		A	51
chr01	97679	C	G	51
chr01	98350	C C	G	39
chr01	98351	Ğ	Č	39
chr01	99565	-	G	39
chr01	99841	А	Т	42
chr01	100399	G	С	54
chr01	110470	С	G	66
chr01	110471	G	С	63
chr01	113702	C	G	50
chrU1	113703	G	C	50
chr01	120442	C	G	5/
chr01	134125	- T	Δ	52
chr01	134854	G	T	- J2 - 40
chr01	152189	č	A	48
chr01	152190	Ă	C	48
chr01	164040	Т	-	42
chr01	167048	G	С	75
chr01	167087	-	С	66
chr01	167134	-	А	78
chr01	167139	-	Т	72
chr01	167144	-	A	63
chr01	167551	G	C	69
chrU1	16/802	C	1	48
chiU1	172044	6	- T	40
chr01	172041	-	Т	57 57
chr01	172172	-	Ť	54
chr01	172434	G	-	51
chr01	174173	G	С	52
chr01	174187	С	G	54
chr01	174188	G	С	57
chr01	178256	G	С	54
chr01	178638	G	-	36

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chr01	178647	I	С	66
chr01	179683	Т	A	53
chr01	199804	Т	G	54
ohr01	214049	Ċ	<u> </u>	44
CHIUT	214046	U.	A	44
chr01	216010	A	G	35
chr02	7510	G	А	53
chr02	7014	Δ	_	52
chir02	1314	- <u>-</u>	-	52
chr02	11053	1	C	50
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chr02	11309	А	Т	84
chr02	11345	^	G	50
	11070	~	0	50
chr02	11379	A	C	50
chr02	13102	С	А	44
chr02	13553	G	Δ	54
CHIOZ	13333	0	~	34
chr02	13966	C	A	39
chr02	13982	G	A	42
chr02	15332	G	С	50
-1	00040	õ	~	40
CNFU2	23913	C	A	48
chr02	23947	-	A	60
chr02	28909	-	А	63
ohr02	20655	C	т	26
CHIUZ	30055	6		30
chr02	36312	Т	A	55
chr02	38067	С	Т	52
chr02	38210	Δ	т	57
ofii 02	20210	<u> </u>		44
chru2	38728	C	A	44
chr02	38908	G	A	54
chr02	38917	Ċ	т	53
abr02	200000	č		50
CHL02	38920	U	А	53
chr02	42377	С	G	72
chr02	45495	Т	Α	48
ohr02	40000		Ť	57
CHIUZ	40309	А		57
chr02	55145	A	С	50
chr02	68154	Т	G	49
chr02	69155	Ġ	~	10
	00100	G	A	+9
chr02	73450	С	G	72
chr02	75208	А	G	66
ohr02	00400	<u> </u>	Ű	50
CHIUZ	00493	G	-	52
chr02	89277	G	Т	56
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chr02	02016	G	^	54
CHIOZ	92910	0	~	J4
chr02	92918	С	-	55
chr02	92919	С	-	55
chr02	92920	G	-	55
sh r00	02020	ŏ		00
CHIUZ	93022	U.	-	30
chr02	95345	G	Т	48
		-		
chr02	114868	G	A	60
chr02	114868	G	A	60 54
chr02 chr02	114868 114870	G A	A G	60 54
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chr02 chr02 chr02 chr02	114868 114870 210433 220413	G A A A	A G G G	60 54 42 48
chr02 chr02 chr02 chr02 chr02 chr02	114868 114870 210433 220413 221294	G A A A G	A G G G	60 54 42 48 42
chr02 chr02 chr02 chr02 chr02 chr02	114868 114870 210433 220413 221294 221295	G A A G T	A G G -	60 54 42 48 42 42
chr02 chr02 chr02 chr02 chr02 chr02 chr02	114868 114870 210433 220413 221294 221295	G A A G T	A G G - -	60 54 42 48 42 42 42
chr02	114868 114870 210433 220413 221294 221295 237021	G A A G T -	A G G - - G	60 54 42 48 42 42 42 42 45
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chr02	114868 114870 210433 220413 221294 221295 237021 237839 237892	G A A G T - G	A G G - - G A A	60 54 42 48 42 42 42 45 48 54
chr02	114868 114870 210433 220413 221294 221295 237021 237839 237892 2328416	G A A G T - G G	A G G - - G A A A	60 54 42 48 42 42 42 45 45 48 54 6
chr02	114868 114870 210433 220413 221294 221295 237021 237839 237892 237892	G A A G T - G G G	A G G - - G A A A A	60           54           42           48           42           43           42           44           45           48           54           54
chr02	114868 114870 210433 220413 221294 221295 237021 237839 237839 237892 238116 238133	G A A G T - G G G G G	A G G - - G A A A A A	60           54           42           42           45           48           46           57
chr02	114868 114870 210433 220413 221294 221295 237021 237839 237892 238116 238133 241396	G A A G T - G G G G G	A G G G - - G A A A A A A	60           54           42           48           42           45           48           54           54           48           54           48           54           48           54           48           54           46           57           48
chr02	114868 114870 210433 220413 221294 221295 237021 237839 237839 237839 237839 238133 241396 245111	G A A G T - G G G G G T	A G G - - G A A A A A A A	60           54           42           48           42           45           48           54           46           57           48           48
chr02	114868 114870 210433 220413 221294 221295 237021 237839 237892 238116 238133 241396 245111	G A A G T - G G G G G G T T	G G G - - G A A A A A A A A A	60 54 42 48 42 42 45 45 48 54 46 57 57 48 48 20
chr02	114868 114870 210433 220413 221294 221295 237021 237839 237892 238116 238133 241396 245111 250039	G A A G T - - G G G G G T T T	G G G - G A A A A A A A A G	60           54           42           48           42           45           46           57           48           48           39
chr02	114868 114870 210433 220413 221294 221295 237021 237899 237892 238116 238133 241396 245111 250039 250403	G A A G T - G G G G G T T T C	A G G - - G A A A A A A G G	60           54           42           48           42           44           45           48           54           46           57           48           48           39           42
chr02	114868 114870 210433 220413 221294 221295 237021 237839 237892 238116 2438133 241396 245111 250039 250403 254495	G A A G T - G G G G G T T T C G	A G G - - G A A A A A A G G T	60           54           42           48           42           45           48           54           45           48           54           46           57           48           48           39           42           63
chr02	114868 114870 210433 220413 221294 221295 237021 237899 237892 238116 238133 241396 245111 250039 250403 254495 254532	G A A G T - G G G G G G T T C C C	A G G - - - A A A A A G G G T T A	60           54           42           48           42           48           54           48           54           48           57           48           39           42           63           78
chr02	114868 114870 210433 220413 221294 221295 237021 237839 237892 238116 238133 241396 245111 250039 250403 254495 254495	G A A G T - G G G G G T T T C G C T	A G G G - - G A A A A A A G G T A A	60           54           42           48           42           45           48           54           45           48           54           46           57           48           48           39           42           63           78           42
chr02	114868 114870 210433 220413 221294 221295 237021 237892 237892 238116 238133 241396 245111 250039 250403 254495 254532 254616	G A A G T - G G G G G G G T T T C G C T	A G G G - - G A A A A A A G G G T T A A	60           54           42           48           42           45           48           54           46           57           48           39           42           63           78           42
chr02            chr02           chr02           chr02	114868 114870 210433 220413 221294 221295 237021 237839 237892 238116 238133 241396 245111 250039 250403 250403 254495 254532 254616 254719	G A A G T - G G G G G G T T T C C T T	A G G - - G A A A A A A A G G T T A A T	60           54           42           48           42           44           45           48           54           46           57           48           48           39           42           63           78           42           36
chr02	114868 114870 210433 220413 221294 221295 237021 237839 237892 238116 241396 245111 250039 250403 254495 254532 254616 254719 254720	G A A G T T - G G G G G G T T T C C C T T - -	A G G - - - G A A A A A A G G T T A A T T	60           54           42           48           42           45           48           54           45           48           54           66           57           48           63           78           42           39
chr02	114868 114870 210433 220413 221294 221295 237021 237839 237892 238116 238133 241396 245111 250039 250403 254495 254532 254616 254719 254720 259762	G A A G T - G G G G G T T T C C C T T - C	A G G - - - G A A A A A A G G T T A A T T	60           54           42           48           42           44           45           48           54           46           57           48           46           57           48           46           57           48           48           39           42           63           78           42           36           39           52
chr02	114868 114870 210433 220413 221294 221295 237021 237839 237892 238116 245111 250039 250403 254495 254495 254452 254532 254616 254719 254720 259762	G A A G T - G G G G G G G T T T C C G C T T - C C C	A G G G - - - G A A A A A A A A A T T T T	60           54           42           48           42           45           48           54           46           57           48           48           63           78           42           36           39           52           57
chr02	114868 114870 210433 220413 221294 221295 237021 237839 237892 238116 238133 241396 245111 250039 250403 254495 254532 254616 254719 254720 259762 265902	G A A G G G G G G G G G G C T T - C C C	A G G G - - - G A A A A A A A A A T T T T	60           54           42           48           42           43           44           45           48           54           46           57           48           48           46           57           48           48           48           39           42           63           78           42           36           39           52           55
chr02            chr02           chr02           chr02           chr02           chr02           chr02           chr02           chr02	114868 114870 210433 220413 221294 221295 237021 237839 237892 238116 238133 241396 245111 250039 250403 254495 254532 254616 254719 254720 259762 265902 265905	G A A G T - G G G G G G G G G C T T C C C T	A G G - - - G A A A A A A A A A A T T T T T T T T	60           54           42           48           42           45           48           54           46           57           48           44           48           57           48           49           42           63           78           42           36           39           52           55           55
chr02           chr02      chr02 <td>114868 114870 210433 220413 221294 221295 237021 237839 237892 238116 238133 241396 245111 250039 250403 254495 254532 254616 254719 254720 259762 265902 265905</td> <td>G A A G G G G G G G G G C T T C C C T C C</td> <td>A G G G - - - G A A A A A A A A A A T T T T T T C G G C - - - - G C C C C C C C C C C C</td> <td>60           54           42           48           42           45           48           54           46           57           48           39           42           63           78           42           36           39           52           55           55           54</td>	114868 114870 210433 220413 221294 221295 237021 237839 237892 238116 238133 241396 245111 250039 250403 254495 254532 254616 254719 254720 259762 265902 265905	G A A G G G G G G G G G C T T C C C T C C	A G G G - - - G A A A A A A A A A A T T T T T T C G G C - - - - G C C C C C C C C C C C	60           54           42           48           42           45           48           54           46           57           48           39           42           63           78           42           36           39           52           55           55           54
chr02           chr02 <tchr02< td="">           chr02           chr02           chr02           chr02           chr02           chr02           chr02           chr02           chr02</tchr02<>	114868 114870 210433 220413 221294 221295 237021 237839 237892 238116 238133 241396 245111 250039 250403 250403 254495 254532 254616 254719 254720 259762 265902 265905 265922 265905	G A A G G G G G G G G G G C T T C C C T C C C C	A G G - - - G A A A A A A A A A A T T T T T G G - - - G G - - - - - - - -	60           54           42           48           42           44           45           48           54           46           57           48           48           39           42           63           78           42           36           39           52           55           55           54           44
chr02	114868 114870 210433 220413 221294 221295 237021 237839 237892 238116 238133 241396 245111 250039 250403 254495 254532 254616 254719 254720 259762 265902 265905 265902 315071	G A A A G G G G G G G G G G C T T C C C T C C C T C C C C	A G G G - - - G A A A A A A A A G G T T T T T T T C G C - - - - - - - - - - - - - - - - -	60           54           42           48           42           45           48           54           46           57           48           46           57           48           39           42           63           78           42           36           39           52           55           55           54           44           44
chr02	114868 114870 210433 220413 221294 221295 237021 237839 237892 238116 238133 241396 241396 241396 241396 250403 250403 250403 250403 250403 254495 254532 254616 254719 254720 259762 265902 265905 265922 265905 315071 315270	G A A G T - G G G G G G G G C T T C C C T C C C C T C C C C	A G G - - - G A A A A A A A A A A T T T T - G G C C G C C C C C C C C C C C C C C	60           54           42           48           42           48           54           48           54           46           57           48           46           57           48           46           57           48           39           42           63           78           42           36           39           52           55           55           54           44           36
chr02           chr02      chr02 <td>114868 114870 210433 220413 221294 221295 237021 237839 237892 238116 245131 250039 250403 254495 254532 254616 254720 259762 265902 265902 265902 265902 265905 265922 315071 315270</td> <td>G A A G G G G G G G G G G C T T C C C T C C C C</td> <td>A G G G - - - G A A A A A A A A A A A T T T T T T T T</td> <td>60           54           42           48           42           45           48           54           46           57           48           48           48           57           48           48           57           48           48           39           42           63           78           42           63           39           52           55           54           44           36           39           52           54           44           36           36</td>	114868 114870 210433 220413 221294 221295 237021 237839 237892 238116 245131 250039 250403 254495 254532 254616 254720 259762 265902 265902 265902 265902 265905 265922 315071 315270	G A A G G G G G G G G G G C T T C C C T C C C C	A G G G - - - G A A A A A A A A A A A T T T T T T T T	60           54           42           48           42           45           48           54           46           57           48           48           48           57           48           48           57           48           48           39           42           63           78           42           63           39           52           55           54           44           36           39           52           54           44           36           36
chr02           chr02      chr02 <td>114868 114870 210433 220413 221294 221295 237021 237839 237892 238116 238133 241396 245111 250039 250403 254495 254532 254616 254719 254720 254720 265902 26</td> <td>G A A G G G G G G G G G C T T C C C T T C C C C</td> <td>A G G G - - - G A A A A A A A A A A A C G G T T T T T T - - G G C G G C G G G G C G G G G G G G</td> <td>60           54           42           48           42           48           45           48           54           46           57           48           46           57           48           46           57           48           48           39           42           63           78           42           36           39           52           55           54           44           36           36           36           36           36           36           36           36           36           36           36           36           36           36           36           36           39</td>	114868 114870 210433 220413 221294 221295 237021 237839 237892 238116 238133 241396 245111 250039 250403 254495 254532 254616 254719 254720 254720 265902 26	G A A G G G G G G G G G C T T C C C T T C C C C	A G G G - - - G A A A A A A A A A A A C G G T T T T T T - - G G C G G C G G G G C G G G G G G G	60           54           42           48           42           48           45           48           54           46           57           48           46           57           48           46           57           48           48           39           42           63           78           42           36           39           52           55           54           44           36           36           36           36           36           36           36           36           36           36           36           36           36           36           36           36           39
chr02           chr02 </td <td>114868 114870 210433 220413 221294 221294 237021 237839 237892 238116 238133 241396 245111 250039 250403 250403 254495 254532 254616 254719 254720 259762 265902 265905 265902 265905 265902 265905 265902 265905 265902 265905 265905 265902 265905 265902 265905 265905 265902 265905 26</td> <td>G A A A G G G G G G G G G G G C T T C C C T C C C T C C C C</td> <td>A G G G - - - G A A A A A A A A A A A A</td> <td>60           54           42           48           42           45           48           57           48           57           48           57           48           63           78           42           63           55           55           54           44           36           39           52           55           54           44           36           39           52           55           54           44           36           36           39           42</td>	114868 114870 210433 220413 221294 221294 237021 237839 237892 238116 238133 241396 245111 250039 250403 250403 254495 254532 254616 254719 254720 259762 265902 265905 265902 265905 265902 265905 265902 265905 265902 265905 265905 265902 265905 265902 265905 265905 265902 265905 26	G A A A G G G G G G G G G G G C T T C C C T C C C T C C C C	A G G G - - - G A A A A A A A A A A A A	60           54           42           48           42           45           48           57           48           57           48           57           48           63           78           42           63           55           55           54           44           36           39           52           55           54           44           36           39           52           55           54           44           36           36           39           42
chr02           chr02 </td <td>114868 114870 210433 220413 221294 221295 237021 237839 237892 238113 241396 245111 250039 250403 254495 254532 254616 254719 254720 259762 265905 265902 265905 26</td> <td>G A A G G G G G G G G G G C T T C C C T T C C C C</td> <td>A G G G - - - G A A A A A A A A A A A C G G T T T T T - - G C C C C</td> <td>60           54           42           48           42           48           42           48           54           48           57           48           56           57           48           46           57           48           48           48           39           42           63           78           42           36           39           52           55           54           44           36           36           39           42</td>	114868 114870 210433 220413 221294 221295 237021 237839 237892 238113 241396 245111 250039 250403 254495 254532 254616 254719 254720 259762 265905 265902 265905 26	G A A G G G G G G G G G G C T T C C C T T C C C C	A G G G - - - G A A A A A A A A A A A C G G T T T T T - - G C C C C	60           54           42           48           42           48           42           48           54           48           57           48           56           57           48           46           57           48           48           48           39           42           63           78           42           36           39           52           55           54           44           36           36           39           42
chr02           chr02      chr02 <td>114868 114870 210433 220413 221294 221295 237021 237839 237892 238116 238133 241396 245111 250039 250403 250403 254495 254532 254616 254719 254720 259762 265902 265905 265922 315071 315270 315271 323836 370774</td> <td>G A A G G G G G G G G G G G C T T C C C T C C C T C C C C</td> <td>A G G G - - - G A A A A A A A A A A A C G G T T T T T T C G C C C T</td> <td>60           54           42           48           42           44           45           48           54           46           57           48           44           46           57           48           48           39           42           63           78           42           36           39           52           55           55           54           44           36           36           39           42           51</td>	114868 114870 210433 220413 221294 221295 237021 237839 237892 238116 238133 241396 245111 250039 250403 250403 254495 254532 254616 254719 254720 259762 265902 265905 265922 315071 315270 315271 323836 370774	G A A G G G G G G G G G G G C T T C C C T C C C T C C C C	A G G G - - - G A A A A A A A A A A A C G G T T T T T T C G C C C T	60           54           42           48           42           44           45           48           54           46           57           48           44           46           57           48           48           39           42           63           78           42           36           39           52           55           55           54           44           36           36           39           42           51
chr02           chr02      chr02 <td>114868 114870 210433 220413 221294 221295 237021 237839 237892 238116 238133 241396 245111 250039 250403 254495 254532 254532 254616 254719 254720 259762 265902 265902 265902 315071 315271 323835 323836 370774 374011</td> <td>G A A A G G G G G G G G G C T T C C C T C C C T C C C C</td> <td>A G G G - - - G A A A A A A A A A A A A</td> <td>60           54           42           48           42           48           54           48           54           48           57           48           56           78           42           36           39           52           55           54           44           36           39           42           51</td>	114868 114870 210433 220413 221294 221295 237021 237839 237892 238116 238133 241396 245111 250039 250403 254495 254532 254532 254616 254719 254720 259762 265902 265902 265902 315071 315271 323835 323836 370774 374011	G A A A G G G G G G G G G C T T C C C T C C C T C C C C	A G G G - - - G A A A A A A A A A A A A	60           54           42           48           42           48           54           48           54           48           57           48           56           78           42           36           39           52           55           54           44           36           39           42           51
chr02           chr02 </td <td>114868 114870 210433 220413 221294 221295 237021 237839 237892 238116 238133 241396 245131 250403 250572 205772 205772 20</td> <td>G A A G T - - G G G G G G G C T T C C C T C C C C T T C C G C C T T T T</td> <td>A G G G - - - G A A A A A A A A A A C G G T T C C C C C C T A A</td> <td>60           54           42           48           42           44           45           48           54           46           57           48           46           57           48           46           57           48           48           39           42           63           78           42           36           39           52           55           55           54           44           36           39           42           51           51           54</td>	114868 114870 210433 220413 221294 221295 237021 237839 237892 238116 238133 241396 245131 250403 250572 205772 205772 20	G A A G T - - G G G G G G G C T T C C C T C C C C T T C C G C C T T T T	A G G G - - - G A A A A A A A A A A C G G T T C C C C C C T A A	60           54           42           48           42           44           45           48           54           46           57           48           46           57           48           46           57           48           48           39           42           63           78           42           36           39           52           55           55           54           44           36           39           42           51           51           54
chr02           chr02      chr02 <td>114868 114870 210433 220413 221294 221295 237021 237839 237892 238116 238133 241396 245111 250039 250403 254495 254532 254616 254719 259762 265902 265905 265902 315071 315270 315271 323835 323836 370774 374011 375272</td> <td>G A A A G G G G G G G G G G G C C T T C C C C C</td> <td>A G G G - - - G A A A A A A A A A A A C G T T T T T T T T T T T T T T T T T C G C C C C</td> <td>60           54           42           48           42           45           48           54           46           57           48           46           57           48           39           42           63           78           42           36           39           52           55           55           54           44           36           39           42           51           51           51           51</td>	114868 114870 210433 220413 221294 221295 237021 237839 237892 238116 238133 241396 245111 250039 250403 254495 254532 254616 254719 259762 265902 265905 265902 315071 315270 315271 323835 323836 370774 374011 375272	G A A A G G G G G G G G G G G C C T T C C C C C	A G G G - - - G A A A A A A A A A A A C G T T T T T T T T T T T T T T T T T C G C C C C	60           54           42           48           42           45           48           54           46           57           48           46           57           48           39           42           63           78           42           36           39           52           55           55           54           44           36           39           42           51           51           51           51
chr02           chr02 </td <td>114868 114870 210433 220413 221294 221295 237021 237839 237892 238116 238133 241396 245111 250039 250403 254495 254532 254616 254719 254720 25905 265902 265902 265902 265902 265902 265902 265902 315071 315270 315271 323835 323836 370774</td> <td>G A A G G G G G G G G G G G C T T C C C T T C C C C</td> <td>A G G G - - - G A A A A A A A A A A A C G G T T C C C T C C T A A T T</td> <td>60           54           42           48           42           44           45           48           54           46           57           48           46           57           48           46           57           48           48           39           42           36           39           52           55           54           44           36           39           42           51           54           72</td>	114868 114870 210433 220413 221294 221295 237021 237839 237892 238116 238133 241396 245111 250039 250403 254495 254532 254616 254719 254720 25905 265902 265902 265902 265902 265902 265902 265902 315071 315270 315271 323835 323836 370774	G A A G G G G G G G G G G G C T T C C C T T C C C C	A G G G - - - G A A A A A A A A A A A C G G T T C C C T C C T A A T T	60           54           42           48           42           44           45           48           54           46           57           48           46           57           48           46           57           48           48           39           42           36           39           52           55           54           44           36           39           42           51           54           72
chr02           chr02      chr02 <td>114868 114870 210433 220413 221294 221295 237021 237892 237892 238116 238133 241396 245111 250039 250403 254495 254532 254532 254616 254719 259762 265905 265905 265905 265905 265905 265905 315071 315270 315271 323835 323836 370774 374011 375272 376497 383173</td> <td>G A A G G G G G G G G G G G C T T C C C T T C C C T C C C T T C C C T T C C C T T C C C C C T T C</td> <td>A G G G - - - G A A A A A A A A A A A C G C C C C C C</td> <td>60           54           42           48           42           45           48           54           46           57           48           46           57           48           39           42           63           78           42           36           39           52           55           54           44           36           39           42           51           51           51           54           45</td>	114868 114870 210433 220413 221294 221295 237021 237892 237892 238116 238133 241396 245111 250039 250403 254495 254532 254532 254616 254719 259762 265905 265905 265905 265905 265905 265905 315071 315270 315271 323835 323836 370774 374011 375272 376497 383173	G A A G G G G G G G G G G G C T T C C C T T C C C T C C C T T C C C T T C C C T T C C C C C T T C	A G G G - - - G A A A A A A A A A A A C G C C C C C C	60           54           42           48           42           45           48           54           46           57           48           46           57           48           39           42           63           78           42           36           39           52           55           54           44           36           39           42           51           51           51           54           45
chr02           chr02      chr02 <td>114868 114870 210433 220413 221294 221295 237021 237839 237892 238116 238133 241396 245111 250039 250403 254495 254532 254616 254719 254720 254720 265902 265905 323836 370774 376497 385572 376497 385560</td> <td>G           A           A           G           T           G           C           T           C           G           C           G           G           G           G           G           G           G           G           G           G           G           G           G           G</td> <td>A         G           G         G           -         -           G         A           A         A           A         A           A         G           G         G           T         T           T         T           G         G           G         C           G         C           G         C           G         C           T         T           G         G           G         C           G         G           G         G</td> <td>60           54           42           48           42           44           45           48           54           46           57           48           46           57           48           46           57           48           48           39           42           36           39           52           55           54           44           36           39           42           51           51           51           54           72           45</td>	114868 114870 210433 220413 221294 221295 237021 237839 237892 238116 238133 241396 245111 250039 250403 254495 254532 254616 254719 254720 254720 265902 265905 323836 370774 376497 385572 376497 385560	G           A           A           G           T           G           C           T           C           G           C           G           G           G           G           G           G           G           G           G           G           G           G           G           G	A         G           G         G           -         -           G         A           A         A           A         A           A         G           G         G           T         T           T         T           G         G           G         C           G         C           G         C           G         C           T         T           G         G           G         C           G         G           G         G	60           54           42           48           42           44           45           48           54           46           57           48           46           57           48           46           57           48           48           39           42           36           39           52           55           54           44           36           39           42           51           51           51           54           72           45
chr02           chr02      chr02 <td>114868 114870 210433 220413 221294 221295 237021 237839 237892 238116 238133 241396 245111 250039 250403 250403 250403 254495 254532 254616 254719 254720 259762 265902 265905 265922 315071 315270 315271 323836 370774 374011 375272 376497 383173 385560</td> <td>G A A G G G G G G G G G G G C T T C C C T T C C C C</td> <td>A G G G - - - G A A A A A A A A A A A A</td> <td>60           54           42           48           42           48           54           45           48           57           48           54           46           57           48           48           39           42           63           78           42           63           78           42           63           55           55           55           55           55           55           54           44           36           39           42           51           54           72           45           39           90</td>	114868 114870 210433 220413 221294 221295 237021 237839 237892 238116 238133 241396 245111 250039 250403 250403 250403 254495 254532 254616 254719 254720 259762 265902 265905 265922 315071 315270 315271 323836 370774 374011 375272 376497 383173 385560	G A A G G G G G G G G G G G C T T C C C T T C C C C	A G G G - - - G A A A A A A A A A A A A	60           54           42           48           42           48           54           45           48           57           48           54           46           57           48           48           39           42           63           78           42           63           78           42           63           55           55           55           55           55           55           54           44           36           39           42           51           54           72           45           39           90
chr02           chr02      chr02 <td>114868 114870 210433 220413 221294 221295 237021 237839 237892 237892 238116 238133 241396 245111 250039 250403 254495 254532 254616 254719 254720 259762 265902 265902 265902 265902 265902 265902 265902 265902 265905 315071 315271 315271 315271 323835 323836 370774 376497 385360 385361</td> <td>G           A           A           G           T           G           G           G           G           G           G           G           G           G           G           G           G           G           G           G           G           G           G           C           C           G           C           G           C           G           C           G           C           G           C           G           C           G           C           G           G           C           G           G           G           C           G           G           G           G           G           G           G           G</td> <td>A G G G - - - G A A A A A A A A A A A A</td> <td>60           54           42           48           42           48           45           48           57           48           56           57           48           46           57           48           48           48           48           48           48           39           42           63           78           42           63           78           42           36           39           52           55           54           44           36           39           42           51           51           54           72           45           39           39           39</td>	114868 114870 210433 220413 221294 221295 237021 237839 237892 237892 238116 238133 241396 245111 250039 250403 254495 254532 254616 254719 254720 259762 265902 265902 265902 265902 265902 265902 265902 265902 265905 315071 315271 315271 315271 323835 323836 370774 376497 385360 385361	G           A           A           G           T           G           G           G           G           G           G           G           G           G           G           G           G           G           G           G           G           G           G           C           C           G           C           G           C           G           C           G           C           G           C           G           C           G           C           G           G           C           G           G           G           C           G           G           G           G           G           G           G           G	A G G G - - - G A A A A A A A A A A A A	60           54           42           48           42           48           45           48           57           48           56           57           48           46           57           48           48           48           48           48           48           39           42           63           78           42           63           78           42           36           39           52           55           54           44           36           39           42           51           51           54           72           45           39           39           39
chr02           chr02      chr02 <td>114868 114870 210433 220413 221294 221295 237021 237839 237892 238116 238133 241396 245131 25039 250403 254495 254532 254616 254719 254720 259762 265902 265905 265922 315071 315270 315271 315270 315271 323836 370774 374011 375272 376497 383173 385360 385361 385361</td> <td>G A A G G G G G G G G G G C T T C C C C T T C C G C C T T C C G C C T T C C G C T T C C C C</td> <td>A G G G - - - - G A A A A A A A A A A A</td> <td>60           54           42           48           42           44           45           48           54           46           57           48           46           57           48           46           57           48           48           39           42           63           78           42           36           39           52           55           54           44           36           39           42           51           54           72           45           39           39           45</td>	114868 114870 210433 220413 221294 221295 237021 237839 237892 238116 238133 241396 245131 25039 250403 254495 254532 254616 254719 254720 259762 265902 265905 265922 315071 315270 315271 315270 315271 323836 370774 374011 375272 376497 383173 385360 385361 385361	G A A G G G G G G G G G G C T T C C C C T T C C G C C T T C C G C C T T C C G C T T C C C C	A G G G - - - - G A A A A A A A A A A A	60           54           42           48           42           44           45           48           54           46           57           48           46           57           48           46           57           48           48           39           42           63           78           42           36           39           52           55           54           44           36           39           42           51           54           72           45           39           39           45
chr02           chr02      chr02 <td>114868 114870 210433 220413 221295 237021 237839 237892 237892 238116 238133 241396 245111 250039 250403 254495 254532 254616 254719 254720 259762 265902 265902 265902 265902 315071 315271 323835 323836 370774 374011 375272 376497 385360 385361 385361</td> <td>G           A           A           G           T           G           G           G           G           G           G           G           G           G           G           G           G           G           G           C           C           G           C           G           C           G           C           G           C           G           C           G           C           G           C           G           C           G           C           G           T           A           -           C           G           T           T</td> <td>A         G           G         G           -         -           G         A           A         A           A         A           A         A           A         A           G         G           T         T           T         T           G         G           C         G           C         G           C         G           C         G           G         G           C         C           A         A           A         A</td> <td>60           54           42           48           42           48           45           48           54           48           57           48           56           78           42           36           39           52           55           54           44           36           39           42           51           51           51           54           72           45           39           39           45           78</td>	114868 114870 210433 220413 221295 237021 237839 237892 237892 238116 238133 241396 245111 250039 250403 254495 254532 254616 254719 254720 259762 265902 265902 265902 265902 315071 315271 323835 323836 370774 374011 375272 376497 385360 385361 385361	G           A           A           G           T           G           G           G           G           G           G           G           G           G           G           G           G           G           G           C           C           G           C           G           C           G           C           G           C           G           C           G           C           G           C           G           C           G           C           G           T           A           -           C           G           T           T	A         G           G         G           -         -           G         A           A         A           A         A           A         A           A         A           G         G           T         T           T         T           G         G           C         G           C         G           C         G           C         G           G         G           C         C           A         A           A         A	60           54           42           48           42           48           45           48           54           48           57           48           56           78           42           36           39           52           55           54           44           36           39           42           51           51           51           54           72           45           39           39           45           78
chr02           chr02 </td <td>114868 114870 210433 220413 221294 221295 237021 237839 237892 238116 238133 241396 241396 241396 241396 241396 250403 250403 250403 250403 250403 250403 250403 250403 250403 250403 250403 250403 250403 250403 250403 250403 250403 250502 265905 265902 265905 265902 265905 265902 265905 265905 265905 265905 265905 265905 265905 265905 265905 265905 265905 265905 265905 37074 375272 376497 38836 370774 37572 376497 388367 388773 388774 388775 3997474 3997474 38774 37774 37774 377774 377774 3777777777</td> <td>G           A           A           G           T           -           G           C           G           C           G           C           G           C           G           C           G           C           G           T           T           C           G           T           C           G           T           C           G           T           C           G           T           C</td> <td>A           G           G           G           -           G           A           A           A           A           A           A           A           A           A           G           G           G           G           G           G           G           C           G           C           T           G           C           A           A           A           A           A           A           C           A           A           A           A           A           A           A           G           G           C           A           A           A</td> <td>60           54           42           48           42           48           54           48           54           48           54           48           54           48           57           48           48           39           42           63           78           42           36           39           52           55           55           54           44           36           39           51           54           72           45           39           39           45           78</td>	114868 114870 210433 220413 221294 221295 237021 237839 237892 238116 238133 241396 241396 241396 241396 241396 250403 250403 250403 250403 250403 250403 250403 250403 250403 250403 250403 250403 250403 250403 250403 250403 250403 250502 265905 265902 265905 265902 265905 265902 265905 265905 265905 265905 265905 265905 265905 265905 265905 265905 265905 265905 265905 37074 375272 376497 38836 370774 37572 376497 388367 388773 388774 388775 3997474 3997474 38774 37774 37774 377774 377774 3777777777	G           A           A           G           T           -           G           C           G           C           G           C           G           C           G           C           G           C           G           T           T           C           G           T           C           G           T           C           G           T           C           G           T           C	A           G           G           G           -           G           A           A           A           A           A           A           A           A           A           G           G           G           G           G           G           G           C           G           C           T           G           C           A           A           A           A           A           A           C           A           A           A           A           A           A           A           G           G           C           A           A           A	60           54           42           48           42           48           54           48           54           48           54           48           54           48           57           48           48           39           42           63           78           42           36           39           52           55           55           54           44           36           39           51           54           72           45           39           39           45           78
chr02           chr02      chr02 <td>114868 114870 210433 220413 221294 221295 237021 237839 237892 238116 238133 241396 245111 250039 250403 254495 254532 254616 254719 254720 259762 265902 265905 265902 265905 265902 315071 315270 315271 323835 323836 370774 374011 375272 376497 385360 385361 385361 385361 38574 385775</td> <td>G A A A A G G G G G G G G G G C C T T C C C C T T C C C C</td> <td>A         G           G         G           -         -           G         A           A         A           A         A           A         A           A         A           A         A           G         G           T         T           T         T           G         G           C         G           C         G           C         G           G         G           C         A           A         A</td> <td>60           54           42           48           42           48           54           48           54           48           57           48           56           57           48           39           42           63           78           42           53           55           55           54           44           36           39           42           51           51           51           51           54           72           45           39           39           45           778           42</td>	114868 114870 210433 220413 221294 221295 237021 237839 237892 238116 238133 241396 245111 250039 250403 254495 254532 254616 254719 254720 259762 265902 265905 265902 265905 265902 315071 315270 315271 323835 323836 370774 374011 375272 376497 385360 385361 385361 385361 38574 385775	G A A A A G G G G G G G G G G C C T T C C C C T T C C C C	A         G           G         G           -         -           G         A           A         A           A         A           A         A           A         A           A         A           G         G           T         T           T         T           G         G           C         G           C         G           C         G           G         G           C         A           A         A	60           54           42           48           42           48           54           48           54           48           57           48           56           57           48           39           42           63           78           42           53           55           55           54           44           36           39           42           51           51           51           51           54           72           45           39           39           45           778           42
chr02           chr02      chr02 <td>114868 114870 210433 220413 221295 237021 237839 237892 238116 238133 241396 245111 250039 250403 254495 254532 254616 254719 254720 265902 26</td> <td>G           A           A           G           T           G           G           G           G           G           G           G           G           G           G           G           G           G           G           G           G           G           G           C           C           G           C           G           C           G           C           G           C           G           C           G           C           G           C           G           C           G           C           G           C           G           C           G           T           A           C           G           T           C</td> <td>A G G G - - - G A A A A A A A A A A A A</td> <td>60           54           42           48           42           44           45           48           54           46           57           48           46           57           48           46           57           48           46           57           58           52           55           54           42           36           39           52           55           54           44           36           39           42           51           54           72           45           39           39           45           78           42           66</td>	114868 114870 210433 220413 221295 237021 237839 237892 238116 238133 241396 245111 250039 250403 254495 254532 254616 254719 254720 265902 26	G           A           A           G           T           G           G           G           G           G           G           G           G           G           G           G           G           G           G           G           G           G           G           C           C           G           C           G           C           G           C           G           C           G           C           G           C           G           C           G           C           G           C           G           C           G           C           G           T           A           C           G           T           C	A G G G - - - G A A A A A A A A A A A A	60           54           42           48           42           44           45           48           54           46           57           48           46           57           48           46           57           48           46           57           58           52           55           54           42           36           39           52           55           54           44           36           39           42           51           54           72           45           39           39           45           78           42           66
chr02           chr02      chr02 <td>114868 114870 210433 220413 221294 237021 237839 237892 237892 238116 238133 241396 245111 250039 250403 254495 254532 254532 254616 254719 259762 265902 265905 265902 315071 315270 315271 323835 323836 370774 374011 375272 376497 383173 385360 385361 388775 389421 389423 389423</td> <td>G A A A A G G G G G G G G G G G G G C C T T C C C C</td> <td>A G G G - - - G A A A A A A A A A A A C G C C C C C C</td> <td>60           54           42           48           42           45           48           54           46           57           48           46           57           48           39           42           63           78           42           55           55           55           55           55           54           44           36           39           42           51           51           51           51           53           39           39           45           78           42           66           38</td>	114868 114870 210433 220413 221294 237021 237839 237892 237892 238116 238133 241396 245111 250039 250403 254495 254532 254532 254616 254719 259762 265902 265905 265902 315071 315270 315271 323835 323836 370774 374011 375272 376497 383173 385360 385361 388775 389421 389423 389423	G A A A A G G G G G G G G G G G G G C C T T C C C C	A G G G - - - G A A A A A A A A A A A C G C C C C C C	60           54           42           48           42           45           48           54           46           57           48           46           57           48           39           42           63           78           42           55           55           55           55           55           54           44           36           39           42           51           51           51           51           53           39           39           45           78           42           66           38
chr02           chr02      chr02 <td>114868 114870 210433 220413 221294 221295 237021 237839 237892 238113 241396 245111 250039 250403 254495 254532 254616 254719 254720 25905 265902 315071 315271 323836 3378774 385360 385361 388774 388775 389421 389423 389425 38</td> <td>G           A           A           G           T           G           G           G           G           G           G           G           G           G           G           G           G           G           G           C           T           C           G           C           G           C           G           C           G           C           G           C           G           C           G           C           G           C           T           C           G           C           T           A           C           G           C           T           C           G           C           T           G           C</td> <td>A           G           G           G           G           -           G           A           A           A           A           A           A           G           G           T           T           T           G           G           C           G           C           G           C           G           C           G           C           G           C           A           T           G           C           A           T           G           C           A           A           G           G           G           G           G           G           G           G           G           G           G           G           G</td> <td>60           54           42           48           42           44           45           48           54           46           57           48           46           57           48           46           57           48           48           39           42           63           78           42           36           39           52           55           54           44           36           39           42           51           51           54           72           45           39           39           39           39           39           39           39           39           39           39           39           39           39           39</td>	114868 114870 210433 220413 221294 221295 237021 237839 237892 238113 241396 245111 250039 250403 254495 254532 254616 254719 254720 25905 265902 315071 315271 323836 3378774 385360 385361 388774 388775 389421 389423 389425 38	G           A           A           G           T           G           G           G           G           G           G           G           G           G           G           G           G           G           G           C           T           C           G           C           G           C           G           C           G           C           G           C           G           C           G           C           G           C           T           C           G           C           T           A           C           G           C           T           C           G           C           T           G           C	A           G           G           G           G           -           G           A           A           A           A           A           A           G           G           T           T           T           G           G           C           G           C           G           C           G           C           G           C           G           C           A           T           G           C           A           T           G           C           A           A           G           G           G           G           G           G           G           G           G           G           G           G           G	60           54           42           48           42           44           45           48           54           46           57           48           46           57           48           46           57           48           48           39           42           63           78           42           36           39           52           55           54           44           36           39           42           51           51           54           72           45           39           39           39           39           39           39           39           39           39           39           39           39           39           39
chr02           chr02      chr02 <td>114868 114870 210433 220413 221294 221295 237021 237839 237892 238116 238133 241396 245111 250039 250403 254495 254532 254616 254719 254720 259762 265902 265902 265902 265902 265902 265902 265902 315071 315270 315271 315270 315271 323836 370774 374011 375272 376497 383173 385360 385361 385774 388173 385361 388775 388775 388775</td> <td>G           A           A           G           T           -           G           G           G           G           G           G           G           G           G           G           G           G           G           C           C           G           C           G           C           G           C           G           C           G           C           G           T           T           C           G           T           T           C           G           T           T           G           C           G           T           T           G           G           T           T           G           G           C</td> <td>A G G G - - - G A A A A A A A A A A A A</td> <td>60           54           42           48           42           48           54           48           54           48           54           48           54           46           57           48           48           39           42           63           78           42           36           39           52           55           54           44           36           36           39           42           51           54           44           36           39           39           39           39           39           39           39           39           39           39           39           39           39           39           39           38</td>	114868 114870 210433 220413 221294 221295 237021 237839 237892 238116 238133 241396 245111 250039 250403 254495 254532 254616 254719 254720 259762 265902 265902 265902 265902 265902 265902 265902 315071 315270 315271 315270 315271 323836 370774 374011 375272 376497 383173 385360 385361 385774 388173 385361 388775 388775 388775	G           A           A           G           T           -           G           G           G           G           G           G           G           G           G           G           G           G           G           C           C           G           C           G           C           G           C           G           C           G           C           G           T           T           C           G           T           T           C           G           T           T           G           C           G           T           T           G           G           T           T           G           G           C	A G G G - - - G A A A A A A A A A A A A	60           54           42           48           42           48           54           48           54           48           54           48           54           46           57           48           48           39           42           63           78           42           36           39           52           55           54           44           36           36           39           42           51           54           44           36           39           39           39           39           39           39           39           39           39           39           39           39           39           39           39           38
chr02           chr02      chr02 <td>114868 114870 210433 220413 221294 221295 237021 237839 237892 237892 238116 238133 241396 245111 250039 250403 254495 254532 254532 254616 254719 254720 259762 265902 265902 265902 265902 265902 315071 315271 315271 315271 315271 315271 323835 323836 370774 376497 385360 385361 388775 389421 389423 38942557 392558</td> <td>G           A           A           G           T           G           G           G           G           G           G           G           G           G           G           G           G           G           G           G           G           C           T           C           G           C           G           C           G           C           G           C           G           C           G           C           G           C           G           C           G           C           G           C           G           C           G           C           G           C           G           G           G           G</td> <td>A G G G - - - G A A A A A A A A A A A A</td> <td>60           54           42           48           42           48           45           48           57           48           54           46           57           48           39           42           63           78           42           36           39           52           55           54           44           36           39           42           51           51           51           54           72           45           39           39           45           78           42           66           38           49           48</td>	114868 114870 210433 220413 221294 221295 237021 237839 237892 237892 238116 238133 241396 245111 250039 250403 254495 254532 254532 254616 254719 254720 259762 265902 265902 265902 265902 265902 315071 315271 315271 315271 315271 315271 323835 323836 370774 376497 385360 385361 388775 389421 389423 38942557 392558	G           A           A           G           T           G           G           G           G           G           G           G           G           G           G           G           G           G           G           G           G           C           T           C           G           C           G           C           G           C           G           C           G           C           G           C           G           C           G           C           G           C           G           C           G           C           G           C           G           C           G           G           G           G	A G G G - - - G A A A A A A A A A A A A	60           54           42           48           42           48           45           48           57           48           54           46           57           48           39           42           63           78           42           36           39           52           55           54           44           36           39           42           51           51           51           54           72           45           39           39           45           78           42           66           38           49           48
chr02           chr02      chr02 <td>114868 114870 210433 220413 221294 221295 237021 237839 237892 238116 238133 241396 241396 245495 254495 254495 254495 254495 254495 254495 254495 254532 254616 254719 254720 259762 265902 265902 265902 265902 265902 265902 315071 315270 315271 315270 315277 315272 3150774 376497 383173 385361 388774 388775 388421 389425 389425 3925578 3925578 3925578</td> <td>G           A           A           G           T           -           G           G           G           G           G           G           G           G           G           G           G           G           G           G           G           G           C           T           C           G           C           G           C           G           C           G           C           G           C           G           C           G           C           G           C           G           C           G           G           C           G           C           G           C           G           G           C           G</td> <td>A G G G - - - G A A A A A A A A A A A A</td> <td>60           54           42           48           42           48           45           48           54           46           57           48           46           57           48           46           57           48           39           42           63           78           42           36           39           52           55           54           44           36           39           42           51           54           72           45           39           39           39           45           78           42           66           38           49           48</td>	114868 114870 210433 220413 221294 221295 237021 237839 237892 238116 238133 241396 241396 245495 254495 254495 254495 254495 254495 254495 254495 254532 254616 254719 254720 259762 265902 265902 265902 265902 265902 265902 315071 315270 315271 315270 315277 315272 3150774 376497 383173 385361 388774 388775 388421 389425 389425 3925578 3925578 3925578	G           A           A           G           T           -           G           G           G           G           G           G           G           G           G           G           G           G           G           G           G           G           C           T           C           G           C           G           C           G           C           G           C           G           C           G           C           G           C           G           C           G           C           G           G           C           G           C           G           C           G           G           C           G	A G G G - - - G A A A A A A A A A A A A	60           54           42           48           42           48           45           48           54           46           57           48           46           57           48           46           57           48           39           42           63           78           42           36           39           52           55           54           44           36           39           42           51           54           72           45           39           39           39           45           78           42           66           38           49           48

	392569	G	С	44
chr02	426304	Ċ	G	60
chil02	420394	0	0	00
chru2	426396	G	C .	60
chr02	432380	T	С	52
chr02	433377	С	G	47
chr02	433378	G	С	47
chr02	437344	<u>۸</u>	Ğ	54
	437344	A T	0	34
chr02	439496	ļ	G	54
chr02	447535	С	G	39
chr02	447536	G	С	39
chr02	456359	C	Т	55
ohr02	401671	т	Ċ	75
CIIIOZ	401071	1	6	75
chr02	481672	G	Т	78
chr02	481674	Т	G	75
chr02	481675	G	T	72
chi02	401073	G	1	12
chr02	488600		A	39
chr02	488601	С	Т	39
chr02	513365	Δ	G	50
chi02	513305	~	0	30
CNrU2	514965	A	C	45
chr02	527099	A	G	75
chr02	547442	А	Т	54
chr02	561435	C	-	54
-1	001400	0		54
CHIUZ	023445	C	-	54
chr02	625500	Т	С	68
chr02	627421	Т	G	55
ohr02	627422	^	Ĉ	54
	021433	~	Ť	54
chr02	627435	C		54
chr02	627436	С	Т	54
chr02	627438	G	А	53
chr02	627420	č	^	53
	02/439	9	A T	33
chr02	627486	A		/8
chr02	627487	Т	A	78
chr02	631342	G	C	51
chr02	631343	č	Ğ	63
CIIIOZ	031343	C	6	03
chr02	631345	G		69
chr02	631346	G	Т	65
chr02	631340	Δ	C	72
ohr02	624050	^	č	75
CNFU2	631350	A	C	/5
chr02	631352	С	G	84
chr02	631353	G	С	84
ohr02	621007	Č	<u>ہ</u>	67
CHIU2	631907	G	A	67
chr02	631912	G	A	66
chr02	631936	G	A	54
chr02	631940	C	Δ	54
ohr02	621091	<u>ہ</u>	<u>с</u>	60
Childz	031961	A	G	69
chr02	633189	Т	A	57
chr02	634934	С	Т	51
chr02	635192	Δ	G	51
chi02	005102	~	0	00
CNFU2	635247	A	G	60
chr02	635822	С	G	51
chr02	636141	А	G	69
chr02	636306	^	T	45
chi02	030300	<u>,</u>	1	45
CNFU2	636309	A	G	45
chr02	739341	A	Т	52
chr02	740291	С	G	39
ohr02	740202	Č	C C	20
CIIIOZ	740292	6	C	39
chr02	743936	G	С	48
chr02	743938	С	~	
chr02	754000		G	51
ohr02	754900	т	G	51 63
CHIUZ	754906	T	C	51 63
1.00	757291	T A	G C -	51 63 44
chr02	757291 774080	T A C	G C - G	51 63 44 55
chr02 chr02	757291 774080 774430	T A C C	G C - G G	51 63 44 55 52
chr02 chr02 chr02	754908 757291 774080 774430 779354	T A C C T	G C - G G A	51 63 44 55 52 55
chr02 chr02 chr02 chr02	754908 757291 774080 774430 779354 770255	T A C C T	G C - G G A	51 63 44 55 52 55 55 55
chr02 chr02 chr02 chr02 chr02	754908 757291 774080 774430 779354 779355	T A C C T A	G C - G G A C	51 63 44 55 52 55 55 55 55
chr02 chr02 chr02 chr02 chr02 chr02	754908 757291 774080 774430 779354 779355 779356	T A C T A C	G C G G A C T	51 63 44 55 52 55 55 55 55 55
chr02 chr02 chr02 chr02 chr02 chr02 chr02 chr02 chr02	754906 757291 774080 774430 779354 779355 779356 780541	T A C T A C C	G C G G A C T A	51 63 44 55 52 55 55 55 73
chr02 chr02 chr02 chr02 chr02 chr02 chr02 chr02 chr02	754906 757291 774080 774430 779354 779355 779356 780541 781354	T A C C T A C C G	G C - G G A C T A C	51 63 44 55 52 55 55 55 55 73 45
chr02 chr02 chr02 chr02 chr02 chr02 chr02 chr02 chr02	754908 757291 774080 774430 779354 779355 779356 780541 781354 786737	T A C C T A C C G	G C - G G A C T A C C	51 63 44 55 52 55 55 55 55 55 73 45 51
chr02 chr02 chr02 chr02 chr02 chr02 chr02 chr02 chr02 chr02 chr02	754908 757291 774080 774430 779354 779355 779356 780541 781354 781354 786737	T A C T A C C G -	G C - G G A C T A C C C A	51 63 44 55 52 55 55 55 73 45 51
chr02 chr02 chr02 chr02 chr02 chr02 chr02 chr02 chr02 chr02	754908 757291 774080 774430 779355 779355 779356 780541 781354 786737 786763	T A C T A C C G - -	G C G G A C T A C C C A A C	51         63           44         55           55         55           55         55           55         55           55         55           51         51           51         51
chr02 chr02 chr02 chr02 chr02 chr02 chr02 chr02 chr02 chr02 chr02 chr02 chr02	757291 774080 774430 779354 779355 779355 780541 780541 781354 786737 786763 792276	T A C C T A C C G - -	G C G G A C T A C C C C A T	51 63 44 55 55 55 55 55 55 55 73 45 51 51 39
chr02	757291 757291 774080 774430 779354 779355 780541 780541 781354 786737 786763 792276 793386	T A C C T A C C G G - - A	G C G G A C T A C C A T C	51 63 44 55 55 55 55 55 55 55 73 45 45 51 51 51 39 36
chr02 chr02 chr02 chr02 chr02 chr02 chr02 chr02 chr02 chr02 chr02 chr02 chr02 chr02 chr02 chr02 chr02 chr02	757291 774080 774430 779354 779355 779356 780541 7805541 781554 786737 786763 792276 793986 793986 793987	T A C C T A C G G - - - A C	G - G G A C T A C C C A T C A	51 63 44 55 52 55 55 55 55 73 45 51 51 51 51 39 36
chr02 chr03 chr04 chr04 chr05	757291 757291 774080 774430 779354 779355 780541 781354 780541 781354 786737 786763 792276 793986 793986 793987	Т А С С С Т А А С С С С С С С С С С С С	G C G G G A C C T A C C C A T C C A T C C	51 63 44 55 52 55 55 55 55 55 55 55 55 55 55 55
chr02           chr03	734306 757291 774430 779354 779355 779356 780541 780541 786737 786763 792276 793986 793986 793987 101652	T         A           C         C           T         A           C         C           G         -           -         -           A         C           C         A           C         A           C         A           C         -           A         -           A         -	G C G G G A C T T A C C C A T T C A T T	51 63 44 55 55 55 55 55 55 55 55 55 55 55 55
chr02 chr02 chr02 chr02 chr02 chr02 chr02 chr02 chr02 chr02 chr02 chr02 chr02 chr02 chr02 chr02 chr03 chr03	757291 757291 774080 779354 779354 779355 779356 780541 781354 786737 786763 792276 793986 793987 101652 101655	T           A           C           G           T           A           C           G           -           -           -           -           A           C           A           C           A           C           A           C           A           C           A           C           A           T	G G G A C T T C C A T C C A T T A	51           63           44           55           52           55           55           73           45           51           51           39           36           36           54           51
chr02           chr03           chr03	734906 757291 774430 779354 779355 779356 780541 781354 786763 792276 793986 793986 793987 101655 110881	T A C C C T A C C C C C C C C C T A A C C C T A C C T C C T C T	G C G G G G A C C T T A A T T A A	51         63           44         55           52         55           55         55           55         55           51         51           51         36           36         54           51         51           51         51           51         51
chr02           chr03           chr03           chr03	734906 757291 774430 779354 779355 779356 780541 780541 786737 786763 792276 793986 793986 793987 101652 101655 110881	T A C C C T A C C C C C C C C C C T A C C C C	G C G G A C T T A C C C A T T C A T T A A A	51       63       44       55       52       55       55       55       51       51       39       36       54       51       51       36       36       36       36       36       36       37       51       39
chr02           chr03           chr03           chr03           chr03           chr03	734906 757291 774080 774300 779354 779355 779356 780541 781354 786737 786763 792276 793986 793987 793987 101655 110881 152641 250552	T           A           C           C           T           A           C           G           -           -           -           -           -           -           -           -           -           A           C           A           T           -           G           G	G C G G G A C T T A A C C C A T C C A T T C A A T	51         63           44         55           52         55           55         55           55         55           51         51           39         36           51         51           51         56           54         51           51         56           56         56           57         39           36         54           51         51           39         66
chr02           chr03           chr03           chr03           chr03	734306 757291 774430 779354 779355 779356 780541 780541 786737 786763 792276 793986 793986 793987 101652 101655 110881 152641 250563	T A C C C T A C C C C G - - A C C C G - - - A C C C C T T A C C C C C T C C C C C C	G C G G G A C T T A C C C A T C C A T C C A C C C C	51           63           44           55           52           55           55           55           51           51           51           53           36           54           51           53           36           54           51           53           36           54           51           53           56           57           38           66
chr02           chr03           chr03           chr03           chr03           chr03           chr03           chr03	734306 757291 7774080 777430 779354 779355 779356 780541 781354 786737 786763 792276 793986 793986 793987 101652 101655 110881 152641 250563 275421	T           A           C           C           T           A           C           G           -           A           T           -           A           T           -           A           T           -           A           A           A           A           A           A           A	G G G G C T T A C C C A T C C A T C C A T C C A T C G G G G G G G G G G G G G G G G G G	51           63           44           55           52           55           55           55           51           51           39           66           69
chr02           chr03	734306 757291 774430 779354 779355 779356 780541 786737 786763 792276 793986 793986 793987 101655 110881 152641 250563 275421 24415	T           A           C           C           T           A           C           G           -           A           C           A           C           A           C           A           C           A           C           A           C           A           C	G C G G G C T T A C C C A T C C A T T C A A T G G A	51           63           44           55           52           55           55           55           51           51           36           54           51           36           54           51           36           54           51           36           54           51           36           54           51           51           36           54           51           51           36           54           51           51           39           66           69           48
chr02           chr03           chr03           chr03           chr03           chr03           chr03           chr03           chr03           chr03           chr04	757291 757291 774080 77430 779354 779355 779356 780541 781354 786737 786763 792276 793986 793987 793987 101652 101655 110881 152641 250563 275421 24415 27070	T         A           C         C           T         A           C         C           G         -           -         -           A         C           C         A           T         -           G         A           T         -           G         A           A         C           C         C	G G G G C T T A C C C A T C C A T C C A T C C T C A C T C C T C C C C	51         63           44         55           52         55           55         55           55         55           51         51           51         39           36         36           54         51           51         54           51         56           66         69           48         36
chr02           chr03           chr03           chr03           chr03           chr03           chr03           chr03           chr04           chr04	734906 757291 774430 779354 779354 779355 779356 780541 781354 786763 792276 793986 793987 101655 110881 152641 250563 275421 24415 27070 90200	T           A           C           C           T           A           C           G           -           A           C           A           C           A           C           A           C           C           A           C           C           C           C           C           C           C           C           C           C	G C G G G G G A C T T A A C C C A T C C A T C C A T C C A T C C C A C C C C	51         63           44         55           52         55           55         55           55         55           51         51           51         39           36         36           51         51           51         51           51         66           69         48           36         40
chr02           chr03           chr03           chr03           chr03           chr03           chr03           chr03           chr03           chr04           chr04	734906 757291 774430 779354 779355 779356 780541 780541 786737 786763 792276 793986 793987 101652 101652 101655 110881 152641 250563 275421 24415 25070 30786	T           A           C           C           T           A           C           G           -           -           A           C           A           C           G           A           C           C           C           C           A           C           G           A           C           C           G           A           C           C	G G G G C T T C C C A T C C A T C C A T C A T T C A T T A A T T A A T	51         63         44         55         52         55         55         55         51         51         51         51         51         51         51         66         66         69         48         36         49
chr02           chr03           chr03           chr03           chr03           chr03           chr03           chr03           chr04           chr04           chr04	734306 757291 7774080 777430 779354 779355 779356 780541 781354 786733 786763 792276 793986 793987 101655 101655 101655 101655 101655 101655 101655 20563 275421 224415 27070 30786 108307	T           A           C           C           T           A           C           G           -           A           C           A           C           A           C           A           C           A           C           G           A           C           G           A           C           G           A           C           G           T	G G G G C T T A C C C A T C C A T C C A T C C A A T C C A A T C C A A C C A A C C A A C C A A A C C A A A C C A A A C A A A C A A A C A A A A C A	51         63         44         55         52         55         55         55         51         51         39         36         54         51         51         51         66         69         48         36         48
chr02           chr03           chr03           chr03           chr03           chr03           chr03           chr03           chr04           chr04           chr04           chr04	734306 757291 774430 779354 779355 779356 780541 780541 786737 786763 792276 793986 793987 101652 101655 110881 152641 250563 275421 250563 275421 250563 275421 250563 275421 25070 30786 108307 119470	T           A           C           C           T           A           C           -           G           A           C           C           G           T           G           T           G           T           G           T	G G G G C T T C C C A T C C A T C C A T C A A T C A A T T G A A A A A A	51         63         44         55         52         55         55         55         51         51         51         36         54         51         36         54         51         36         54         51         36         54         51         36         54         51         36         54         51         51         36         51         55          55
chr02           chr03           chr03           chr03           chr03           chr03           chr03           chr04           chr04           chr04           chr04	734906 757291 7774080 777430 779354 779355 779356 780541 781354 786737 786763 792276 793987 793986 793987 793987 101652 110851 110851 110851 110855 110881 152641 250563 275421 24415 27070 30786 108307 119470	T           A           C           C           T           A           C           G           -           -           A           C           A           C           A           C           A           C           A           C           G           A           C           G           T           G           T           G           T           G           T	G G G G C T T A C C C A T C C A T C C A T C C A T C C A A C C T A A C C A A C C A A C C A A C C A A C A C A A C A C A C A A C C A C A C A C A C A C A C A C A C A C A C A C A C C A C C A C A C A C A C A C A C A C C A C A C C A C A C A C C A C C A C C A C C A C C A C C A C C A C C A C C C C A C A C A C C A C C A C C A C C A C A C C A C C A C C A C C A C C A C C A C C A C C A C C A C C A C C A C C A C C A C C A C C A C C C A C C C A C C C A C	51         63         44         55         52         55         55         55         51         51         39         36         54         51         51         66         669         48         36         36         55         55         55         55         55         55         55         66         63         44         36         55         55         55         55         57
chr02           chr03           chr03           chr03           chr03           chr03           chr03           chr04           chr04           chr04           chr04           chr04           chr04	734306 757291 774430 779354 779355 779356 780541 781354 786763 792276 793986 793986 793987 101655 110881 152641 250563 275421 24415 27070 30786 108307 119470	T           A           C           C           T           A           C           -           -           A           C           A           C           G           A           C           G           T           G           T           G           T           G           T           G           T           G           T           G           T	G C G G G G G A C T T A A C C C A T C C A T C C A T C C A A C C C A A C C C A A C C C A A A C C C A A C C C A A A C C C A A A A C C C A A A A A A A A A A A A A	51         63         44         55         52         55         55         55         51         51         51         51         51         51         51         51         51         51         51         51         51         51         51         51         39         66         69         48         36         36         37         38         55         57         52         57         52         53         54         55         55         57         52
chr02           chr03           chr03           chr03           chr03           chr03           chr03           chr04	757291 757291 774080 774300 779354 779355 779356 780541 781354 786737 786763 792276 793986 793987 793987 793987 101652 101655 110881 152641 152641 152641 250563 275421 24415 27070 30786 108307 119564 121289	T           A           C           C           T           A           C           -           -           -           A           C           A           C           G           A           C           C           G           A           C           C           G           T           G           T           G           T           G	G G G G C T T A C C C A T C C A T C C A T C C A T C C T A A C C T A A C C T A A C A A C A A C A C	51         63         44         55         52         55         55         55         51         51         30         36         54         51         51         66         69         48         36         55         57         63
chr02           chr03           chr03           chr03           chr03           chr03           chr03           chr04	734906 757291 7774080 774430 779354 779355 779356 780541 780551 786763 792276 793986 793987 101655 101655 101655 101655 110881 152641 250563 275421 24415 27070 30786 108307 119470 119564 121289 130626	T           A           C           C           T           A           C           -           -           A           C           A           C           G           A           C           G           T           G           T           G           T           G           T           G           T           G           T	G G G G G G A C T T A A C C C A T C C A T C C A A T C C A A T C C A A C C A A C C A A C C A A C C A A C C A A A C C A A A C C A A C A A C A C A A C C A A C C A A A C C A A A C C A A A C C A A A C C A A A C C A A A C C A A A C C A A A C C A A A C C A A A C C A A A C C A A A C C A A A C C A A A A A C C A A A C C A A A C C A A A C C A A A C C C C C A A A C C C C C C A A A C C C C C C A A C	51         63         44         55         52         55         55         55         51         51         51         39         36         36         51         51         51         66         69         48         36         49         49
chr02           chr03           chr03           chr03           chr03           chr03           chr03           chr03           chr04            chr04           chr04           chr04           chr04           chr04           chr04           chr04           chr04	757291 757291 774080 77430 779354 779355 779356 780541 781354 786737 786733 786763 792276 793986 793986 793987 101652 101655 110881 152641 250563 275421 24415 250563 275421 24415 27070 30786 108307 119564 121289 130626 215996	T         A           C         C           T         A           C         C           G         -           -         -           A         C           C         A           T         -           G         A           T         -           G         G           T         -           G         G           T         G           G         T           G         T           G         T	G G G G G A C C T A C C C A T C C A T C C A T C C A A C C C T A A C C C A A C C C A A C C C A A C C C A A C C C A A A C C C C A A A A C C C C A A A A A A A A A A A A A	51         63         44         55         52         55         55         55         51         51         30         36         54         51         51         54         51         53         66         69         48         55         57         63         49         49         72
chr02           chr03           chr03           chr03           chr03           chr03           chr03           chr04	734906 757291 7774080 777430 779354 779355 779356 780541 780551 786763 792276 793986 793987 101652 101655 10065 100655 1006 1006	T           A           C           C           T           A           C           -           -           A           C           A           C           A           C           G           T           G           T           G           T           G           T           G           T           G           T           G           T           G           T           G           T           G           T           G           T           G           T           G           T	G G G G C T T A C C C A T C C A T C C A T C C A T C C A A C C T A A C C C A A C C C A A C C C C	51         63         44         55         52         55         55         55         51         51         39         36         54         51         51         66         69         48         36         57         63         49         72         60
chr02           chr03           chr03           chr03           chr03           chr03           chr03           chr03           chr04	734306 757291 774430 779354 779355 779356 780541 780541 786737 786763 792276 793986 793987 101652 101655 101655 110881 152641 250563 275421 24415 27070 30786 108307 119470 119564 121289 130626 215996 277105	T           A           C           C           T           A           C           G           -           -           A           C           A           C           G           A           C           G           T           G           T           G           T           G           T           G           T           G           T           G           T           G           T           G           T           G           T           G           T           C           C	G G G G C T T A C C C A T C C A T C C A T C C A T C A A T C A A C C A A C C A C C C T A A C C C A C C C A C C C C	51         63         44         55         52         55         55         55         55         51         51         51         54         51         51         54         51         54         51         54         51         54         51         54         51         54         51         54         51         53         66         69         48         55         57         63         49         48         55         57         63         49         72         60         62           62          62
chr02           chr03           chr03           chr03           chr03           chr03           chr03           chr04	734906 757291 7774080 777430 779354 779355 779356 780541 781354 786737 786763 792276 793986 793987 793987 793987 793987 101655 110881 152641 152641 152641 275421 24415 27070 30786 108307 119470 119564 121289 130626 215996 277105 277106	T           A           C           C           T           A           C           G           -           A           C           A           C           A           C           G           T           G           T           G           T           G           T           G           T           G           T           G           T           G           T           G           G	G         -           G         -           G         -           G         -           G         -           C         -           T         -           A         -           C         -           C         -           G         -           A         T           G         -           A         T           G         -           A         -           A         -           A         -           A         -           G         -           G         -           G         -           G         -           G         -           G         -           G         -           G         -           G         -           G         -	51         63         44         55         52         55         55         55         51         51         51         51         51         66         69         48         36         57         63         49         72         60         60
chr02           chr03           chr03           chr03           chr03           chr03           chr03           chr04	734306 757291 774430 779354 779355 779356 780541 781354 786763 792276 793986 793987 101655 101655 110881 152641 250563 275421 24415 27070 30786 108307 119470 119564 1289 130626 215996 277106 392615	T           A           C           G           -           -           A           C           A           C           G           A           C           G           T           -           G           G           T           G           T           G           T           G           T           G           T           G           T           G           G           T           G           G           T           G           G           T           C           G           T           G           G           A	G         -           G         -           G         -           G         -           G         -           G         -           G         -           G         -           G         -           G         -           G         -           G         -           G         -           G         -           G         -           T         -           A         -           A         -           A         -           A         -           G         -           G         -           G         -           G         -           G         -           G         -	51         63         44         55         52         55         55         55         51         52         53         54         55         57         63         49         42
chr02           chr03           chr03           chr03           chr03           chr03           chr03           chr04           chr04      chr04 <td>757291 757291 774080 774300 779354 779355 779356 780541 781354 786737 786763 792276 793986 793987 793987 793987 793987 101652 110855 110881 152641 250563 275421 24415 27070 30786 108307 119564 121289 130626 215996 277105 277106</td> <td>T         A           C         C           T         A           C         C           G         -           -         -           A         C           C         A           T         -           G         A           T         -           G         G           T         -           G         G           T         -           G         G           T         -           G         G           T         -           G         G           T         -           G         G           T         -           G         G           T         -           G         G           T         -</td> <td>G G G G G C T T A C C C A T C C A T C C A T C C A T C C A T C C C T A A C C C C</td> <td>51         63         44         55         52         55         55         55         51         51         51         51         51         51         51         51         51         51         51         51         51         51         52         54         55         57         63         49         72         60         60         60         60         51    </td>	757291 757291 774080 774300 779354 779355 779356 780541 781354 786737 786763 792276 793986 793987 793987 793987 793987 101652 110855 110881 152641 250563 275421 24415 27070 30786 108307 119564 121289 130626 215996 277105 277106	T         A           C         C           T         A           C         C           G         -           -         -           A         C           C         A           T         -           G         A           T         -           G         G           T         -           G         G           T         -           G         G           T         -           G         G           T         -           G         G           T         -           G         G           T         -           G         G           T         -           G         G           T         -	G G G G G C T T A C C C A T C C A T C C A T C C A T C C A T C C C T A A C C C C	51         63         44         55         52         55         55         55         51         51         51         51         51         51         51         51         51         51         51         51         51         51         52         54         55         57         63         49         72         60         60         60         60         51
chr02           chr03           chr03           chr03           chr03           chr03           chr04           chr04      chr04 <td>734906 757291 7774080 774430 779354 779354 779355 779356 780541 780541 780541 780541 780763 792276 793986 793987 101655 101655 101655 101655 101655 101655 101655 101655 101655 100881 152641 275421 24415 27070 30786 108307 119470 119564 215996 277105 277106 392615 3926450 392650</td> <td>T           A           C           C           T           A           C           G           -           A           C           A           C           G           A           C           G           T           G           T           G           T           G           T           G           T           G           T           G           T           C           G           T           G           T           C           G           T           C           G           A           T           C           G           T           C           G           A           T</td> <td>G G G G G G A C T T A A C C C A T C C A T C C A A T C C A A C C T A A C C C C</td> <td>51         63         44         55         52         55         55         55         51         51         51         51         51         51         51         51         51         51         51         55         57         66         69         48         55         57         63         49         72         60         42         51         54    </td>	734906 757291 7774080 774430 779354 779354 779355 779356 780541 780541 780541 780541 780763 792276 793986 793987 101655 101655 101655 101655 101655 101655 101655 101655 101655 100881 152641 275421 24415 27070 30786 108307 119470 119564 215996 277105 277106 392615 3926450 392650	T           A           C           C           T           A           C           G           -           A           C           A           C           G           A           C           G           T           G           T           G           T           G           T           G           T           G           T           G           T           C           G           T           G           T           C           G           T           C           G           A           T           C           G           T           C           G           A           T	G G G G G G A C T T A A C C C A T C C A T C C A A T C C A A C C T A A C C C C	51         63         44         55         52         55         55         55         51         51         51         51         51         51         51         51         51         51         51         55         57         66         69         48         55         57         63         49         72         60         42         51         54
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chr02           chr03           chr03           chr03           chr03           chr03           chr03           chr04           chr04      chr04 <td>734906 757291 7774080 777430 779354 779355 779356 780541 780541 781354 786737 786763 792276 793986 793987 793987 793987 793987 793987 101655 110881 152641 152641 152641 275421 24415 27070 30786 108307 119470 119564 121289 130626 215996 277105 277106 392615 396450 396503 542031</td> <td>T           A           C           C           T           A           C           G           -           A           C           A           C           G           A           C           G           T           G           T           G           T           G           T           G           T           G           T           C           G           T           C           G           T           C           G           T           C           G           T           C           A           T           A           C           A           T           C           A           T           C           A           T  </td> <td>G G G G G G G C T T A A C C C A T C A A T C C A A T C C A A C C T A A C C C A A C C C A A C C C A A C C C A A C C C A A C C C A C C A C C A C C C C A C</td> <td>51         63         44         55         52         55         55         55         51         51         51         51         51         51         51         66         69         48         55         57         63         49         72         60         60         60         61         54         55         57         53         63         49         72         60         60         61         54         54</td>	734906 757291 7774080 777430 779354 779355 779356 780541 780541 781354 786737 786763 792276 793986 793987 793987 793987 793987 793987 101655 110881 152641 152641 152641 275421 24415 27070 30786 108307 119470 119564 121289 130626 215996 277105 277106 392615 396450 396503 542031	T           A           C           C           T           A           C           G           -           A           C           A           C           G           A           C           G           T           G           T           G           T           G           T           G           T           G           T           C           G           T           C           G           T           C           G           T           C           G           T           C           A           T           A           C           A           T           C           A           T           C           A           T	G G G G G G G C T T A A C C C A T C A A T C C A A T C C A A C C T A A C C C A A C C C A A C C C A A C C C A A C C C A A C C C A C C A C C A C C C C A C	51         63         44         55         52         55         55         55         51         51         51         51         51         51         51         66         69         48         55         57         63         49         72         60         60         60         61         54         55         57         53         63         49         72         60         60         61         54         54

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| chr04  
   
   
  | 620161   | Δ  | C  
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| chr04  
   
   
  | 620163   | -  | A  
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| chr04  
   
   
  | 757628   | G  | С  
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| chr04  
   
   
  | 802921   | -  | Т  
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| chr04  
   
   
  | 1017381  |  | Т  
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| chr04  
   
   
  | 1063028  | C  | ^  
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  | 1003020  | 0  | ÷  
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| chr04  
   
   
  | 1154954  | C  |  
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| chr04  
   
   
  | 1176394  | -  | С  
  | 52   |   
   
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  | 1194954  | -  | С  
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  | 12000170   | 1  | C  
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  | 1296176  | C  | G  
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  | 1305674  | G  | -  
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  | 1402297  | С  | Т  
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  | 1433702  | Δ  | Т  
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  | 1491660  | G  | A  
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  | 1491666  | G  | С  
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  | 1516838  | -  | A  
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  | 1519598  | С  | G  
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| chr04  
   
   
  | 1519662  | С  | G  
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  | 18079  | A  |  
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  | 48384  | Т  | С  
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| chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07  
   
   
  | 181041           181041           181041           191312           191388           192394           219387           236216           248160           8152           76881           8967           89670           89751           95084           951448           98172           125487           125910           131262   | -<br>-<br>T<br>G<br>C<br>A<br>C<br>A<br>C<br>A<br>T<br>G<br>G<br>G<br>C<br>A<br>-<br>-<br>C<br>C<br>A<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C  | C<br>T<br>T<br>A<br>T<br>C<br>G<br>A<br>T<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C  | 78       78       78       36       42       38       54       42       39       44       51       51       50       54       39 
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| chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07      chr07 <td>181041<br/>181041<br/>181041<br/>191312<br/>191387<br/>192394<br/>219387<br/>236216<br/>248160<br/>89735<br/>89610<br/>89735<br/>89751<br/>95082<br/>95084<br/>95447<br/>95448<br/>98172<br/>125487<br/>125909<br/>125910<br/>131262<br/>190796<br/>208781<br/>230256<br/>275965<br/>286729<br/>289525<br/>289525<br/>289525</td> <td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>C<br/>T<br/>T<br/>A<br/>T<br/>T<br/>G<br/>A<br/>T<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>C<br/>-<br/>A<br/>T<br/>T<br/>A<br/>A<br/>C<br/>C<br/>-<br/>C<br/>-<br/>C<br/>-<br/>C<br/>-<br/>C<br/>-<br/>C<br/>C<br/>-<br/>C<br/>-<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>78       78       78       36       42       38       54       42       39       44       51       50       54       39       46       54       55       63       55       69       51       69       51       63       36</td>   
   
   
  | 181041<br>181041<br>181041<br>191312<br>191387<br>192394<br>219387<br>236216<br>248160<br>89735<br>89610<br>89735<br>89751<br>95082<br>95084<br>95447<br>95448<br>98172<br>125487<br>125909<br>125910<br>131262<br>190796<br>208781<br>230256<br>275965<br>286729<br>289525<br>289525<br>289525  | -<br>-<br>T<br>G<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>C<br>C<br>A<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C   | C<br>T<br>T<br>A<br>T<br>T<br>G<br>A<br>T<br>C<br>C<br>-<br>C<br>C<br>-<br>C<br>-<br>A<br>T<br>T<br>A<br>A<br>C<br>C<br>-<br>C<br>-<br>C<br>-<br>C<br>-<br>C<br>-<br>C<br>C<br>-<br>C<br>-<br>C<br>C<br>-<br>C<br>C<br>-<br>C<br>C<br>-<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C   | 78       78       78       36       42       38       54       42       39       44       51       50       54       39       46       54       55       63       55       69       51       69       51       63       36                       
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| chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07      chr07 <td>181041<br/>181041<br/>181041<br/>191312<br/>191388<br/>192394<br/>219387<br/>236216<br/>248160<br/>8152<br/>76881<br/>89587<br/>89610<br/>89735<br/>89751<br/>95082<br/>95084<br/>95448<br/>98172<br/>125487<br/>125909<br/>125910<br/>131262<br/>190796<br/>208781<br/>230256<br/>275965<br/>289525<br/>289567<br/>289567</td> <td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>C<br/>T<br/>T<br/>A<br/>A<br/>T<br/>-<br/>G<br/>A<br/>T<br/>C<br/>-<br/>-<br/>C<br/>-<br/>-<br/>A<br/>T<br/>T<br/>A<br/>A<br/>G<br/>C<br/>C<br/>-<br/>-<br/>A<br/>T<br/>T<br/>A<br/>A<br/>G<br/>C<br/>C<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-</td> <td>78       78       78       36       42       38       54       42       39       44       51       50       54       39       44       51       50       54       50       54       55       63       54       55       69       51       63       36       54</td>   
   
   
  | 181041<br>181041<br>181041<br>191312<br>191388<br>192394<br>219387<br>236216<br>248160<br>8152<br>76881<br>89587<br>89610<br>89735<br>89751<br>95082<br>95084<br>95448<br>98172<br>125487<br>125909<br>125910<br>131262<br>190796<br>208781<br>230256<br>275965<br>289525<br>289567<br>289567  | -<br>-<br>T<br>G<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>C<br>A<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C   | C<br>T<br>T<br>A<br>A<br>T<br>-<br>G<br>A<br>T<br>C<br>-<br>-<br>C<br>-<br>-<br>A<br>T<br>T<br>A<br>A<br>G<br>C<br>C<br>-<br>-<br>A<br>T<br>T<br>A<br>A<br>G<br>C<br>C<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-   | 78       78       78       36       42       38       54       42       39       44       51       50       54       39       44       51       50       54       50       54       55       63       54       55       69       51       63     
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| chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07 </td <td>181041<br/>181041<br/>181041<br/>191312<br/>191387<br/>236216<br/>248160<br/>8152<br/>76881<br/>89587<br/>89610<br/>89735<br/>89751<br/>95082<br/>95084<br/>95447<br/>95084<br/>95447<br/>125407<br/>125407<br/>125487<br/>125909<br/>125910<br/>131262<br/>190796<br/>208781<br/>230256<br/>275965<br/>286729<br/>289525<br/>289567<br/>319332</td> <td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>C<br/>T<br/>T<br/>A<br/>T<br/>T<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>A<br/>T<br/>T<br/>A<br/>A<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>C<br/>-<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>78       78       78       36       42       38       54       42       39       44       51       50       54       39       46       54       55       63       55       69       48       69       51       63       36       54</td>   
   
   
  | 181041<br>181041<br>181041<br>191312<br>191387<br>236216<br>248160<br>8152<br>76881<br>89587<br>89610<br>89735<br>89751<br>95082<br>95084<br>95447<br>95084<br>95447<br>125407<br>125407<br>125487<br>125909<br>125910<br>131262<br>190796<br>208781<br>230256<br>275965<br>286729<br>289525<br>289567<br>319332   | -<br>-<br>T<br>G<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C   | C<br>T<br>T<br>A<br>T<br>T<br>C<br>C<br>-<br>C<br>C<br>-<br>C<br>C<br>-<br>A<br>T<br>T<br>A<br>A<br>C<br>C<br>-<br>C<br>C<br>-<br>C<br>-<br>C<br>C<br>-<br>C<br>C<br>-<br>C<br>C<br>-<br>C<br>C<br>-<br>C<br>C<br>-<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C   | 78       78       78       36       42       38       54       42       39       44       51       50       54       39       46       54       55       63       55       69       48       69       51       63       36       54                              
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| chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07 </td <td>181041           181041           181041           191312           191387           236216           248160           8152           76881           89587           89610           89751           95082           95084           95448           98172           125910           131262           190796           208781           230256           275965           289525           289567           319332           384063</td> <td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>A<br/>C<br/>A<br/>C<br/>A<br/>C<br/>A<br/>C<br/>A<br/>C<br/>A<br/>C<br/>A<br/>C<br/>A<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>C<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>78         78         78         36         42         38         54         42         39         44         51         50         54         39         46         54         54         55         63         55         69         48         69         51         63         36         54</td>  
   
   
  | 181041           181041           181041           191312           191387           236216           248160           8152           76881           89587           89610           89751           95082           95084           95448           98172           125910           131262           190796           208781           230256           275965           289525           289567           319332           384063  | -<br>-<br>T<br>G<br>C<br>C<br>A<br>C<br>A<br>C<br>A<br>C<br>A<br>C<br>A<br>C<br>A<br>C<br>A<br>C<br>A<br>C<br>A<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>C<br>A<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C  | C<br>T<br>T<br>A<br>A<br>T<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C  | 78         78         78         36         42         38         54         42         39         44         51         50         54         39         46         54         54         55         63         55         69         48        
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  | 181041<br>181041<br>181041<br>191312<br>191388<br>192394<br>219387<br>236216<br>248160<br>8152<br>76881<br>89587<br>89610<br>89735<br>89751<br>95082<br>95084<br>95447<br>95448<br>98172<br>125487<br>125910<br>131262<br>190796<br>208781<br>230256<br>275965<br>286729<br>289525<br>289525<br>289567<br>319332<br>384063<br>384064   | -<br>-<br>T<br>G<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C  | C<br>T<br>T<br>A<br>T<br>-<br>G<br>A<br>T<br>C<br>-<br>-<br>C<br>-<br>-<br>C<br>-<br>-<br>A<br>A<br>T<br>T<br>A<br>A<br>C<br>-<br>-<br>C<br>-<br>-<br>-<br>A<br>T<br>T<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>C<br>C  | 78       78       78       36       42       38       54       42       39       44       51       50       54       39       46       54       55       63       54       54       54       55       69       51       63       36       54       48       69   
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      78       78       36       42       38       54       42       39       44       51       50       54       39       46       54       55       63       36       54       55       69       51       63       36       54       54       55       66</td></t<></tr> <tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07<!--</td--><td>181041<br/>181041<br/>181041<br/>191312<br/>191388<br/>192394<br/>219387<br/>236216<br/>248160<br/>8152<br/>76881<br/>89587<br/>89610<br/>89735<br/>89751<br/>95084<br/>95084<br/>95447<br/>95448<br/>98172<br/>125487<br/>125909<br/>125910<br/>131262<br/>190796<br/>208781<br/>230256<br/>275965<br/>289567<br/>319332<br/>384063<br/>384064<br/>384466</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78       78       78       36       42       38       54       42       39       44       51       50       54       39       46       46       54       55       69       51       63       54       55       69       51       63       36       54       42       66       62</td></td></tr> <tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07      <tr td=""> <t< td=""><td>181041           181041           181041           181041           191312           191387           236216           248160           8152           76881           89587           89610           89751           95084           95447           95448           98172           125487           125590           131262           190796           208781           230525           289525           289525           289567           384063           384484           384846           384847</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>A<br/>A<br/>T<br/>A<br/>A<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>A<br/>T<br/>A<br/>A<br/>C<br/>C<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78       78       78       36       42       38       54       42       39       44       51       50       54       39       46       54       55       63       55       69       51       63       36       54       55       66       66</td></t<></tr><tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07    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        78         78         36         42         38         54         42         39         44         51         50         54         39         46         54         55         63         54         54         54         55         69         48         69         51         63         36         54         54         54         54         54         54         54         54         55         69         48         69         51         63         36         54         42         66         63         63         63          66          63          63          64          65</td></td></tr><tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07          
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39         46         54         56         57         63         54         55         69         54         55         69         51         63         36         54         54         55         69         42         42         42         66         63         63         66         63         63         66         63         63         66         63         63         63         63         63         63         63         63         63         63         63         63         64         54         <!--</td--></td></td></tr><tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07      <tr td=""> <t< td=""><td>181041<br/>181041<br/>181041<br/>191312<br/>191387<br/>236216<br/>248160<br/>8152<br/>76881<br/>89587<br/>89610<br/>89735<br/>89751<br/>95082<br/>95084<br/>95447<br/>95584<br/>95447<br/>95582<br/>95084<br/>95447<br/>125909<br/>125910<br/>131262<br/>190796<br/>208781<br/>230256<br/>275965<br/>286729<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289567<br/>319332<br/>384064<br/>384846<br/>384847<br/>386981<br/>386982</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>T<br/>T<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>A<br/>T<br/>T<br/>A<br/>A<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78       78       78       36       42       38       54       42       39       44       51       50       54       46       46       54       55       66       63       36       54       52       66       63       63       78       70</td></t<></tr><tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07      <tr td=""> <t< td=""><td>181041           181041           181041           181041           191312           191387           236216           248160           8152           76881           89587           89610           89751           95082           95084           98172           125407           125909           125910           131262           190796           208781           230256           289627           384063           384064           384846           386981           386982           392896           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397085</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>T<br/>-<br/>G<br/>A<br/>T<br/>C<br/>-<br/>-<br/>C<br/>-<br/>-<br/>C<br/>-<br/>-<br/>C<br/>-<br/>-<br/>-<br/>A<br/>T<br/>T<br/>A<br/>A<br/>C<br/>-<br/>-<br/>-<br/>C<br/>-<br/>-<br/>-<br/>-<br/>C<br/>-<br/>-<br/>-<br/>C<br/>C<br/>-<br/>-<br/>-<br/>-</td><td>78         78         78         36         42         38         54         42         39         44         51         50         54         39         46         46         54         55         69         48         69         51         63         54         55         69         54         55         69         54         55         69         63         54         55         69         63         54         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      78       78       36       42       38       54       42       39       44       51       50       54       46       54       46       54       55       63       55       69       51       63       54       54       55       63       66       66       63       54       55       66       66       63       66       63       78       52       69       69</td></td></tr><tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07<!--</td--><td>181041           181041           181041           181041           19132           19138           192394           219387           236216           248160           8152           76881           8967           89610           89735           89751           95084           95084           95447           125909           125910           131262           190796           208781           230256           286729           289525           28967           319322           384064           384847           386982           392901           397085           397086           397085</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>T<br/>G<br/>G<br/>G<br/>G<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78       78       78       78       36       42       38       54       42       39       44       51       50       54       39       46       46       55       63       54       54       55       69       51       63       63       36       54       51       63       63       63       63       63       63       63       63       63       63       63       63       63       63       63       63       64       65       66       66       66       66       63       63       63       63       63       63       63       64       65       66       66       67       68       69       69   </td></td></tr><tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07          
chr07<!--</td--><td>181041<br/>181041<br/>181041<br/>191312<br/>191387<br/>236216<br/>248160<br/>89735<br/>89610<br/>89735<br/>89751<br/>95082<br/>95084<br/>95447<br/>95082<br/>95084<br/>95447<br/>125909<br/>125910<br/>131262<br/>190796<br/>208781<br/>230256<br/>275965<br/>286729<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>299201<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>A<br/>A<br/>T<br/>T<br/>A<br/>A<br/>C<br/>C<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>G<br/>G<br/>G<br/>G<br/>G<br/>G<br/>G<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78       78       78       36       42       38       54       42       39       44       51       50       54       46       46       54       55       66       63       54       55       66       63       54       54       54       54       54       54       54       54       54       54       54       54       54       54       54       54       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       69       69       54       20  </td></td></tr><tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07<!--</td--><td>181041           181041           181041           181041           191312           191387           236216           248160           8152           76881           89587           89610           89751           95082           95084           98172           125407           125909           125910           131262           190796           208781           230256           289625           289527           384063           384064           384846           384846           392896           392001           397085           397086           392901           397855</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78         78         78         78         36         42         38         54         42         39         44         51         50         54         46         46         46         55         63         54         54         55         63         64         69         51         63         36         54         55         66         63         36         54         51         63         36         54         51         63         66         63         63         66         63         63         66         63         63         78         52         69         69         54         38</td></td></tr><tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07<!--</td--><td>181041           181041           181041           181041           191312           191388           192394           219387           236216           248160           84152           76881           89587           89610           89751           95084           951447           95447           95084           98172           125487           125910           131262           190796           208781           230256           275965           286729           289525           289525           289525           289525           289567           319332           384063           38446           384846           384846           397085           397086           397086           397086           397855           397668</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>T<br/>T<br/>C<br/>A<br/>C<br/>C<br/>-<br/>-<br/>C<br/>C<br/>-<br/>-<br/>A<br/>C<br/>C<br/>-<br/>-<br/>C<br/>C<br/>-<br/>-<br/>A<br/>T<br/>T<br/>A<br/>A<br/>C<br/>C<br/>-<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78         78         78         36         42         38         54         42         39         44         51         50         54         39         46         54         55         63         54         54         54         55         69         48         69         51         63         36         54         54         54         55         69         44         63         36         54         52         66         63         63         78         52         69         69         54         38         38          38    </td></td></tr></td></tr></td></tr></td></tr></td></tr> |
181041<br>181041<br>181041<br>191312<br>191388<br>192394<br>219387<br>236216<br>248160<br>8152<br>76881<br>89587<br>89610<br>89735<br>89751<br>95082<br>95082<br>95084<br>95447<br>95448<br>98172<br>125407<br>125909<br>125910<br>131262<br>190796<br>208781<br>230256<br>248729<br>289525<br>289567<br>289567<br>289567<br>289667<br>289667<br>289567<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>289667<br>28967<br>289667<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28967<br>28867<br>28967<br>28967<br>28967<br>28867<br>28867<br>28867<br>28867<br>28867<br>28867<br>28867<br>28867<br>28867<br>28867<br>28867<br>28867<br>28867<br>28867<br>28867<br>28867<br>28867<br>28867<br>28867<br>28867<br>28867<br>28867<br>28867<br>28867<br>28867<br>28867<br>28867<br>28867<br>28867<br>28867<br>28867<br>28867<br>28867<br>28867<br>28867<br>28 | -<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-  | C<br>T<br>T<br>A<br>T<br>-<br>G<br>A<br>T<br>-<br>-<br>C<br>-<br>-<br>-<br>A<br>T<br>T<br>A<br>A<br>C<br>-<br>-<br>-<br>A<br>T<br>T<br>A<br>A<br>C<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-   | 78       78       78       36       42       38       54       42       39       44       51       50       54       39       46       54       55       63       36       54       55       69       51       63       36       54       54       55       66   | chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07 </td <td>181041<br/>181041<br/>181041<br/>191312<br/>191388<br/>192394<br/>219387<br/>236216<br/>248160<br/>8152<br/>76881<br/>89587<br/>89610<br/>89735<br/>89751<br/>95084<br/>95084<br/>95447<br/>95448<br/>98172<br/>125487<br/>125909<br/>125910<br/>131262<br/>190796<br/>208781<br/>230256<br/>275965<br/>289567<br/>319332<br/>384063<br/>384064<br/>384466</td> <td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>C<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>78       78       78       36       42       38       54       42       39       44       51       50       54       39       46       46       54       55       69       51       63       54       55       69       51       63       36       54       42       66       62</td>  
   
  | 181041<br>181041<br>181041<br>191312<br>191388<br>192394<br>219387<br>236216<br>248160<br>8152<br>76881<br>89587<br>89610<br>89735<br>89751<br>95084<br>95084<br>95447<br>95448<br>98172<br>125487<br>125909<br>125910<br>131262<br>190796<br>208781<br>230256<br>275965<br>289567<br>319332<br>384063<br>384064<br>384466   | -<br>-<br>T<br>G<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C  | C<br>T<br>T<br>A<br>A<br>T<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C   | 78       78       78       36       42       38       54       42       39       44       51       50       54       39       46       46       54       55       69       51       63       54       55       69       51       63       36       54       42       66       62   | chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07 <tr td=""> <t< td=""><td>181041           181041           181041           181041           191312           191387           236216           248160           8152           76881           89587           89610           89751           95084           95447           95448           98172           125487           125590           131262           190796           208781           230525           289525           289525           289567           384063           384484           384846           384847</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>A<br/>A<br/>T<br/>A<br/>A<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>A<br/>T<br/>A<br/>A<br/>C<br/>C<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78       78       78       36       42       38       54       42       39       44       51       50       54       39       46       54       55       63       55       69       51       63       36       54       55       66       66</td></t<></tr> <tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07<!--</td--><td>181041<br/>181041<br/>181041<br/>191312<br/>191388<br/>192394<br/>219387<br/>236216<br/>248160<br/>8152<br/>76881<br/>89587<br/>89610<br/>89735<br/>89751<br/>95082<br/>95084<br/>95447<br/>95448<br/>98172<br/>125910<br/>131262<br/>125910<br/>131262<br/>208781<br/>230256<br/>275965<br/>288729<br/>289525<br/>289567<br/>319332<br/>384063<br/>384064<br/>384847<br/>386981</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>T<br/>G<br/>G<br/>G<br/>G<br/>G<br/>G<br/>G<br/>G<br/>G<br/>G<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>A<br/>T<br/>-<br/>G<br/>A<br/>T<br/>C<br/>-<br/>-<br/>C<br/>-<br/>-<br/>C<br/>-<br/>-<br/>A<br/>T<br/>T<br/>A<br/>A<br/>G<br/>C<br/>-<br/>-<br/>-<br/>A<br/>T<br/>T<br/>A<br/>A<br/>G<br/>C<br/>-<br/>-<br/>-<br/>-<br/>-<br/>C<br/>C<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-</td><td>78       78       78       36       42       38       54       42       39       44       51       50       54       39       46       55       63       54       55       69       51       63       36       54       37       55       69       51       63       36       54       42       42       66       66       63</td></td></tr> <tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           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        78         78         36         42         38         54         42         39         44         51         50         54         39         46         54         55         63         54         54         54         55         69         48         69         51         63         36         54         54         54         54         54         54         54         54         55         69         48         69         51         63         36         54         42         66         63         63         63          66          63          63          64          65</td></td></tr> <tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07          
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td=""><td>181041<br/>181041<br/>181041<br/>191312<br/>191387<br/>236216<br/>248160<br/>8152<br/>76881<br/>89587<br/>89610<br/>89735<br/>89751<br/>95082<br/>95084<br/>95447<br/>95584<br/>95447<br/>95582<br/>95084<br/>95447<br/>125909<br/>125910<br/>131262<br/>190796<br/>208781<br/>230256<br/>275965<br/>286729<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289567<br/>319332<br/>384064<br/>384846<br/>384847<br/>386981<br/>386982</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>T<br/>T<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>A<br/>T<br/>T<br/>A<br/>A<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78       78       78       36       42       38       54       42       39       44       51       50       54       46       46       54       55       66       63       36       54       52       66       63       63       78       70</td></t<></tr><tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07      <tr td=""> <t< td=""><td>181041           181041           181041           181041           191312           191387           236216           248160           8152           76881           89587           89610           89751           95082           95084           98172           125407           125909           125910           131262           190796           208781           230256           289627           384063           384064           384846           386981           386982           392896           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      78       78       36       42       38       54       42       39       44       51       50       54       46       54       46       54       55       63       55       69       51       63       54       54       55       63       66       66       63       54       55       66       66       63       66       63       78       52       69       69</td></td></tr><tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07<!--</td--><td>181041           181041           181041           181041           19132           19138           192394           219387           236216           248160           8152           76881           8967           89610           89735           89751           95084           95084           95447           125909           125910           131262           190796           208781           230256           286729           289525           28967           319322           384064           384847           386982           392901           397085           397086           397085</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>T<br/>G<br/>G<br/>G<br/>G<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78       78       78       78       36       42       38       54       42       39       44       51       50       54       39       46       46       55       63       54       54       55       69       51       63       63       36       54       51       63       63       63       63       63       63       63       63       63       63       63       63       63 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      78       78       36       42       38       54       42       39       44       51       50       54       46       46       54       55       66       63       54       55       66       63       54       54       54       54       54       54       54       54       54       54       54       54       54       54       54       54       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       69       69       54       20  </td></td></tr><tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07<!--</td--><td>181041           181041           181041           181041           191312           191387           236216           248160           8152           76881           89587           89610           89751           95082           95084           98172           125407           125909           125910           131262           190796           208781           230256           289625           289527           384063           384064           384846           384846           392896           392001           397085           397086           392901           397855</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78         78         78         78         36         42         38         54         42         39         44         51         50         54         46         46         46         55         63         54         54         55         63         64         69         51         63         36         54         55         66         63         36         54         51         63         36         54         51         63         66         63         63         66         63         63         66         63         63         78         52         69         69         54         38</td></td></tr><tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07<!--</td--><td>181041           181041           181041           181041           191312           191388           192394           219387           236216           248160           84152           76881           89587           89610           89751           95084           951447           95447           95084           98172           125487           125910           131262           190796           208781           230256           275965           286729           289525           289525           289525           289525           289567           319332           384063           38446           384846           384846           397085           397086           397086           397086           397855           397668</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>T<br/>T<br/>C<br/>A<br/>C<br/>C<br/>-<br/>-<br/>C<br/>C<br/>-<br/>-<br/>A<br/>C<br/>C<br/>-<br/>-<br/>C<br/>C<br/>-<br/>-<br/>A<br/>T<br/>T<br/>A<br/>A<br/>C<br/>C<br/>-<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78         78         78         36         42         38         54         42         39         44         51         50         54         39         46         54         55         63         54         54         54         55         69         48         69         51         63         36         54         54         54         55         69         44         63         36         54         52         66         63         63         78         52         69         69         54         38         38          38    </td></td></tr></td></tr></td></tr></td></tr> | 181041           181041           181041           181041           191312           191387           236216           248160           8152           76881           89587           89610           89751           95084           95447           95448           98172           125487           125590           131262           190796           208781           230525           289525           289525           289567           384063           384484           384846           384847   | -<br>-<br>T<br>G<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>C<br>C<br>A<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C  | C<br>T<br>T<br>A<br>T<br>T<br>A<br>A<br>T<br>C<br>C<br>-<br>C<br>C<br>-<br>A<br>A<br>T<br>A<br>A<br>C<br>C<br>-<br>C<br>C<br>-<br>A<br>T<br>A<br>A<br>C<br>C<br>-<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C | 78       78       78       36       42       38       54       42       39       44       51       50       54       39       46       54       55       63       55       69       51       63       36       54       55       66       66   | chr06           chr06           chr06           chr06           chr06           chr06           chr06   
       chr06           chr07           chr07 </td <td>181041<br/>181041<br/>181041<br/>191312<br/>191388<br/>192394<br/>219387<br/>236216<br/>248160<br/>8152<br/>76881<br/>89587<br/>89610<br/>89735<br/>89751<br/>95082<br/>95084<br/>95447<br/>95448<br/>98172<br/>125910<br/>131262<br/>125910<br/>131262<br/>208781<br/>230256<br/>275965<br/>288729<br/>289525<br/>289567<br/>319332<br/>384063<br/>384064<br/>384847<br/>386981</td> <td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>T<br/>G<br/>G<br/>G<br/>G<br/>G<br/>G<br/>G<br/>G<br/>G<br/>G<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>C<br/>T<br/>T<br/>A<br/>A<br/>T<br/>-<br/>G<br/>A<br/>T<br/>C<br/>-<br/>-<br/>C<br/>-<br/>-<br/>C<br/>-<br/>-<br/>A<br/>T<br/>T<br/>A<br/>A<br/>G<br/>C<br/>-<br/>-<br/>-<br/>A<br/>T<br/>T<br/>A<br/>A<br/>G<br/>C<br/>-<br/>-<br/>-<br/>-<br/>-<br/>C<br/>C<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-</td> <td>78       78       78       36       42       38       54       42       39       44       51       50       54       39       46       55       63       54       55       69       51       63       36       54       37       55       69       51       63       36       54       42       42       66       66       63</td>   | 181041<br>181041<br>181041<br>191312<br>191388<br>192394<br>219387<br>236216<br>248160<br>8152<br>76881<br>89587<br>89610<br>89735<br>89751<br>95082<br>95084<br>95447<br>95448<br>98172<br>125910<br>131262<br>125910<br>131262<br>208781<br>230256<br>275965<br>288729<br>289525<br>289567<br>319332<br>384063<br>384064<br>384847<br>386981   | -<br>-<br>T<br>G<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>T<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C   | C<br>T<br>T<br>A<br>A<br>T<br>-<br>G<br>A<br>T<br>C<br>-<br>-<br>C<br>-<br>-<br>C<br>-<br>-<br>A<br>T<br>T<br>A<br>A<br>G<br>C<br>-<br>-<br>-<br>A<br>T<br>T<br>A<br>A<br>G<br>C<br>-<br>-<br>-<br>-<br>-<br>C<br>C<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- | 78       78       78       36       42       38       54       42       39       44       51       50       54       39       46       55       63       54       55       69       51       63       36       54       37       55       69       51       63       36       54       42       42       66       66       63  | chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07 </td <td>181041<br/>181041<br/>181041<br/>191312<br/>191387<br/>236216<br/>248160<br/>8152<br/>76881<br/>89587<br/>89610<br/>89735<br/>89751<br/>95082<br/>95084<br/>95447<br/>95082<br/>95084<br/>95447<br/>125407<br/>125407<br/>125407<br/>125407<br/>125407<br/>125407<br/>125407<br/>125407<br/>131262<br/>190796<br/>208781<br/>230256<br/>275965<br/>286729<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289567<br/>319332<br/>384064<br/>384846<br/>384847<br/>386981<br/>386982</td> <td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>C<br/>T<br/>T<br/>A<br/>T<br/>T<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>A<br/>T<br/>T<br/>A<br/>A<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>G<br/>G<br/>G<br/>G<br/>G<br/>G<br/>G<br/>C<br/>C<br/>C<br/>C</td> <td>78         78         78         36         42         38         54         42         39         44         51         50         54         39         46         54         55         63         54         54         54         55         69         48         69         51         63         36         54         54         54         54         54         54         54         54         55         69         48         69         51         63         36         54         42         66         63         63         63          66          63          63          64          65</td>  
   
   | 181041<br>181041<br>181041<br>191312<br>191387<br>236216<br>248160<br>8152<br>76881<br>89587<br>89610<br>89735<br>89751<br>95082<br>95084<br>95447<br>95082<br>95084<br>95447<br>125407<br>125407<br>125407<br>125407<br>125407<br>125407<br>125407<br>125407<br>131262<br>190796<br>208781<br>230256<br>275965<br>286729<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289567<br>319332<br>384064<br>384846<br>384847<br>386981<br>386982   
  | -<br>-<br>T<br>G<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C   | C<br>T<br>T<br>A<br>T<br>T<br>C<br>C<br>-<br>C<br>C<br>-<br>C<br>C<br>-<br>C<br>C<br>-<br>A<br>T<br>T<br>A<br>A<br>C<br>C<br>-<br>C<br>C<br>-<br>C<br>C<br>C<br>C<br>C<br>C<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>C<br>C<br>C<br>C | 78         78         78         36         42         38         54         42         39         44         51         50         54         39         46         54         55         63         54         54         54         55         69         48         69         51         63         36         54         54         54         54         54         54         54         54         55         69         48         69         51         63         36         54         42         66         63         63         63          66          63          63          64          65       | chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07 </td <td>181041<br/>181041<br/>181041<br/>191312<br/>191388<br/>192394<br/>219387<br/>236216<br/>248160<br/>8152<br/>76881<br/>89587<br/>89610<br/>89735<br/>89751<br/>95082<br/>95084<br/>95447<br/>95448<br/>98172<br/>125487<br/>125909<br/>125910<br/>131262<br/>190796<br/>208781<br/>230256<br/>275965<br/>289525<br/>289525<br/>289567<br/>319332<br/>384063<br/>384064<br/>384846<br/>386982<br/>39286</td> <td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>A<br/>C<br/>A<br/>C<br/>A<br/>C<br/>A<br/>C<br/>A<br/>C<br/>A<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>C<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>78         78         78         36         42         38         54         42         39         46         54         56         57         63         54         55         69         54         55         69         51         63         36         54         54         55         69         42         42         42         66         63         63         66         63         63         66         63         63         66         63         63         63         63         63         63         63         63         63         63         63         63         64         54         <!--</td--></td>  
   
  | 181041<br>181041<br>181041<br>191312<br>191388<br>192394<br>219387<br>236216<br>248160<br>8152<br>76881<br>89587<br>89610<br>89735<br>89751<br>95082<br>95084<br>95447<br>95448<br>98172<br>125487<br>125909<br>125910<br>131262<br>190796<br>208781<br>230256<br>275965<br>289525<br>289525<br>289567<br>319332<br>384063<br>384064<br>384846<br>386982<br>39286  | -<br>-<br>T<br>G<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>A<br>C<br>A<br>C<br>A<br>C<br>A<br>C<br>A<br>C<br>A<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>C<br>C<br>C<br>A<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C  | C<br>T<br>T<br>A<br>A<br>T<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C   | 78         78         78         36         42         38         54         42         39         46         54         56         57         63         54         55         69         54         55         69         51         63         36         54         54         55         69         42         42         42         66         63         63         66         63         63         66         63         63         66         63         63         63         63         63         63         63         63         63         63         63         63         64         54 </td       | chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07 <tr td=""> <t< td=""><td>181041<br/>181041<br/>181041<br/>191312<br/>191387<br/>236216<br/>248160<br/>8152<br/>76881<br/>89587<br/>89610<br/>89735<br/>89751<br/>95082<br/>95084<br/>95447<br/>95584<br/>95447<br/>95582<br/>95084<br/>95447<br/>125909<br/>125910<br/>131262<br/>190796<br/>208781<br/>230256<br/>275965<br/>286729<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289567<br/>319332<br/>384064<br/>384846<br/>384847<br/>386981<br/>386982</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>T<br/>T<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>A<br/>T<br/>T<br/>A<br/>A<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78       78       78       36       42       38       54       42       39       44       51       50       54       46       46       54       55       66       63       36       54       52       66       63       63       78       70</td></t<></tr> <tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07      <tr td=""> <t< td=""><td>181041           181041           181041           181041           191312           191387           236216           248160           8152           76881           89587           89610           89751           95082           95084           98172           125407           125909           125910           131262           190796           208781           230256           289627           384063           384064           384846           386981           386982           392896           392001</td><td>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-</td><td>C<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78         78         78         36         42         38         54         42         39         44         51         50         54         39         46         54         55         63         55         69         48         69         51         63         36         54         54         55         63         66         63         66         63         66         63         66         63         78         52</td></t<></tr><tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07      <tr td=""> <t< td=""><td>181041           181041           181041           181041           191312           191388           192394           219387           236216           248160           8152           76881           8967           89751           95084           95147           95084           98172           125487           125909           125910           131262           190796           289525           289525           28967           319332           384063           384484           384846           384847           386982           392896           3928901           397085</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>T<br/>-<br/>G<br/>A<br/>T<br/>C<br/>-<br/>-<br/>C<br/>-<br/>-<br/>C<br/>-<br/>-<br/>C<br/>-<br/>-<br/>-<br/>A<br/>T<br/>T<br/>A<br/>A<br/>C<br/>-<br/>-<br/>-<br/>C<br/>-<br/>-<br/>-<br/>-<br/>C<br/>-<br/>-<br/>-<br/>C<br/>C<br/>-<br/>-<br/>-<br/>-</td><td>78         78         78         36         42         38         54         42         39         44         51         50         54         39         46         46         54         55         69         48         69         51         63         54         55         69         54         55         69         54         55         69         63         54         55         69         63         54         55         66         66         63         63         63         63         63         63         63         63         63         63         63         63         63         64</td></t<></tr><tr><td>chr06           chr06 
         chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           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      78       78       36       42       38       54       42       39       44       51       50       54       46       54       46       54       55       63       55       69       51       63       54       54       55       63       66       66       63       54       55       66       66       63       66       63       78       52       69       69</td></td></tr><tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07<!--</td--><td>181041           181041           181041           181041           19132           19138           192394           219387           236216           248160           8152           76881           8967           89610           89735           89751           95084           95084           95447           125909           125910           131262           190796           208781           230256           286729           289525           28967           319322           384064           384847           386982           392901           397085           397086           397085</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>T<br/>G<br/>G<br/>G<br/>G<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78       78       78       78       36       42       38       54       42       39       44       51       50       54       39       46       46       55       63       54       54       55       69       51       63       63       36       54       51       63       63       63       63       63       63       63       63       63       63       63       63       63 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chr07<!--</td--><td>181041<br/>181041<br/>181041<br/>191312<br/>191387<br/>236216<br/>248160<br/>89735<br/>89610<br/>89735<br/>89751<br/>95082<br/>95084<br/>95447<br/>95082<br/>95084<br/>95447<br/>125909<br/>125910<br/>131262<br/>190796<br/>208781<br/>230256<br/>275965<br/>286729<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>299201<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>A<br/>A<br/>T<br/>T<br/>A<br/>A<br/>C<br/>C<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>G<br/>G<br/>G<br/>G<br/>G<br/>G<br/>G<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78       78       78       36       42       38       54       42       39       44       51       50       54       46       46       54       55       66       63       54       55       66       63       54       54       54       54       54       54       54       54       54       54       54       54       54       54       54       54       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       69       69       54       20  </td></td></tr><tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07<!--</td--><td>181041           181041           181041           181041           191312           191387           236216           248160           8152           76881           89587           89610           89751           95082           95084           98172           125407           125909           125910           131262           190796           208781           230256           289625           289527           384063           384064           384846           384846           392896           392001           397085           397086           392901           397855</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78         78         78         78         36         42         38         54         42         39         44         51         50         54         46         46         46         55         63         54         54         55         63         64         69         51         63         36         54         55         66         63         36         54         51         63         36         54         51         63         66         63         63         66         63         63         66         63         63         78         52         69         69         54         38</td></td></tr><tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07<!--</td--><td>181041           181041           181041           181041           191312           191388           192394           219387           236216           248160           84152  
        76881           89587           89610           89751           95084           951447           95447           95084           98172           125487           125910           131262           190796           208781           230256           275965           286729           289525           289525           289525           289525           289567           319332           384063           38446           384846           384846           397085           397086           397086           397086           397855           397668</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>T<br/>T<br/>C<br/>A<br/>C<br/>C<br/>-<br/>-<br/>C<br/>C<br/>-<br/>-<br/>A<br/>C<br/>C<br/>-<br/>-<br/>C<br/>C<br/>-<br/>-<br/>A<br/>T<br/>T<br/>A<br/>A<br/>C<br/>C<br/>-<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78         78         78         36         42         38         54         42         39         44         51         50         54         39         46         54         55         63         54         54         54         55         69         48         69         51         63         36         54         54         54         55         69         44         63         36         54         52         66         63         63         78         52         69         69         54         38         38          38    </td></td></tr></td></tr></td></tr> | 181041<br>181041<br>181041<br>191312<br>191387<br>236216<br>248160<br>8152<br>76881<br>89587<br>89610<br>89735<br>89751<br>95082<br>95084<br>95447<br>95584<br>95447<br>95582<br>95084<br>95447<br>125909<br>125910<br>131262<br>190796<br>208781<br>230256<br>275965<br>286729<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289567<br>319332<br>384064<br>384846<br>384847<br>386981<br>386982   | -<br>-<br>T<br>G<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C  | C<br>T<br>T<br>A<br>T<br>T<br>C<br>C<br>-<br>C<br>C<br>-<br>C<br>C<br>-<br>C<br>C<br>-<br>C<br>C<br>-<br>A<br>T<br>T<br>A<br>A<br>C<br>C<br>-<br>C<br>C<br>-<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C                     | 78       78       78       36       42       38       54       42       39       44       51       50       54       46       46       54       55       66       63       36       54       52       66       63       63       78       70   | chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07 <tr td=""> <t< td=""><td>181041           181041           181041           181041           191312           191387           236216           248160           8152           76881           89587           89610           89751           95082           95084           98172           125407           125909           125910           131262           190796           208781           230256           289627           384063           384064           384846           386981           386982           392896           392001</td><td>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-</td><td>C<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78         78         78         36         42         38         54         42         39         44         51         50         54         39         46         54         55         63         55         69         48         69         51         63         36         54         54         55         63         66         63         66         63         66         63         66         63         78         52</td></t<></tr> <tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           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397085</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>T<br/>-<br/>G<br/>A<br/>T<br/>C<br/>-<br/>-<br/>C<br/>-<br/>-<br/>C<br/>-<br/>-<br/>C<br/>-<br/>-<br/>-<br/>A<br/>T<br/>T<br/>A<br/>A<br/>C<br/>-<br/>-<br/>-<br/>C<br/>-<br/>-<br/>-<br/>-<br/>C<br/>-<br/>-<br/>-<br/>C<br/>C<br/>-<br/>-<br/>-<br/>-</td><td>78         78         78         36         42         38         54         42         39         44         51         50         54         39         46         46         54         55         69         48         69         51         63         54         55         69         54         55         69         54         55         69         63         54         55         69         63         54         55         66         66         63         63         63         63         63         63         63         63         63         63         63         63         63         64</td></t<></tr><tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07<!--</td--><td>181041<br/>181041<br/>181041<br/>191312<br/>191387<br/>236216<br/>248160<br/>8152<br/>76881<br/>89587<br/>89610<br/>89735<br/>89751<br/>95082<br/>95084<br/>95447<br/>95448<br/>98172<br/>125487<br/>125909<br/>125910<br/>131262<br/>190796<br/>208781<br/>230256<br/>275965<br/>289525<br/>289525<br/>289567<br/>384064<br/>384847<br/>386981<br/>386982<br/>392896<br/>392901<br/>397085<br/>397085</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>A<br/>A<br/>T<br/>T<br/>A<br/>A<br/>G<br/>G<br/>C<br/>C<br/>C<br/>G<br/>G<br/>G<br/>G<br/>G<br/>G<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78       78       78       36       42       38       54       42       39       44       51       50       54       46       54       46       54       55       63       55       69       51       63       54       54       55       63       66       66       63       54       55       66       66       63       66       63       78       52       69       69</td></td></tr><tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07<!--</td--><td>181041           181041           181041           181041           19132           19138           192394           219387           236216           248160           8152           76881           8967           89610           89735           89751           95084           95084           95447           125909           125910           131262           190796           208781           230256           286729           289525           28967           319322           384064           384847           386982           392901           397085           397086           397085</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>T<br/>G<br/>G<br/>G<br/>G<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78       78       78       78       36       42       38       54       42
      39       44       51       50       54       39       46       46       55       63       54       54       55       69       51       63       63       36       54       51       63       63       63       63       63       63       63       63       63       63       63       63       63       63       63       63       64       65       66       66       66       66       63       63       63       63       63       63       63       64       65       66       66       67       68       69       69   </td></td></tr><tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07<!--</td--><td>181041<br/>181041<br/>181041<br/>191312<br/>191387<br/>236216<br/>248160<br/>89735<br/>89610<br/>89735<br/>89751<br/>95082<br/>95084<br/>95447<br/>95082<br/>95084<br/>95447<br/>125909<br/>125910<br/>131262<br/>190796<br/>208781<br/>230256<br/>275965<br/>286729<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>299201<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>A<br/>A<br/>T<br/>T<br/>A<br/>A<br/>C<br/>C<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>G<br/>G<br/>G<br/>G<br/>G<br/>G<br/>G<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78       78       78       36       42       38       54       42       39       44       51       50       54       46       46       54       55       66       63       54       55       66       63       54       54       54       54       54       54       54       54       54       54       54       54       54       54       54       54       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       69       69       54       20  </td></td></tr><tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07<!--</td--><td>181041           181041           181041           181041           191312           191387           236216           248160           8152           76881           89587           89610           89751           95082           95084           98172           125407           125909           125910           131262           190796           208781           230256           289625           289527           384063           384064           384846           384846           392896           392001           397085           397086           392901           397855</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78         78         78         78         36         42         38         54         42         39         44         51         50         54         46         46         46         55         63         54         54         55         63         64         69         51         63         36         54         55         66         63         36         54         51         63         36         54         51         63         66         63         63         66         63         63         66         63         63         78         52         69         69         54         38</td></td></tr><tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07<!--</td--><td>181041           181041           181041           181041           191312           191388           192394           219387           236216           248160           84152           76881           89587           89610           89751           95084           951447           95447           95084           98172           125487           125910           131262           190796           208781           230256           275965           286729           289525           289525           289525           289525           289567           319332           384063           38446           384846           384846           397085           397086           397086           397086           397855           397668</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>T<br/>T<br/>C<br/>A<br/>C<br/>C<br/>-<br/>-<br/>C<br/>C<br/>-<br/>-<br/>A<br/>C<br/>C<br/>-<br/>-<br/>C<br/>C<br/>-<br/>-<br/>A<br/>T<br/>T<br/>A<br/>A<br/>C<br/>C<br/>-<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78         78         78         36         42         38         54         42         39         44         51         50         54         39         46         54         55         63         54         54         54         55         69         48         69         51         63         36         54         54         54         55         69         44         63         36         54         52         66         63         63         78         52         69         69         54         38         38          38    </td></td></tr></td></tr> | 181041           181041           181041           181041           191312           191387           236216           248160           8152           76881           89587           89610           89751           95082           95084           98172           125407           125909           125910           131262           190796           208781           230256           289627           384063           384064           384846           386981           386982           392896           392001   | -<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-  | C<br>T<br>T<br>A<br>A<br>T<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C   
   | 78         78         78         36         42         38         54         42         39         44         51         50         54         39         46         54         55         63         55         69         48         69         51         63         36         54         54         55         63         66         63         66         63         66         63         66         63         78         52  | chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07 <tr td=""> <t< td=""><td>181041           181041           181041           181041           191312           191388           192394           219387           236216           248160           8152           76881           8967           89751           95084           95147           95084           98172           125487           125909           125910           131262           190796           289525           289525           28967           319332           384063           384484           384846           384847           386982           392896           3928901           397085</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>T<br/>-<br/>G<br/>A<br/>T<br/>C<br/>-<br/>-<br/>C<br/>-<br/>-<br/>C<br/>-<br/>-<br/>C<br/>-<br/>-<br/>-<br/>A<br/>T<br/>T<br/>A<br/>A<br/>C<br/>-<br/>-<br/>-<br/>C<br/>-<br/>-<br/>-<br/>-<br/>C<br/>-<br/>-<br/>-<br/>C<br/>C<br/>-<br/>-<br/>-<br/>-</td><td>78         78         78         36         42         38         54         42         39         44         51         50         54         39         46         46         54         55         69         48         69         51         63         54         55         69         54         55         69         54         55         69         63         54         55         69         63         54         55         66         66         63         63         63         63         63         63         63         63         63         63         63         63         63         64</td></t<></tr> <tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07<!--</td--><td>181041<br/>181041<br/>181041<br/>191312<br/>191387<br/>236216<br/>248160<br/>8152<br/>76881<br/>89587<br/>89610<br/>89735<br/>89751<br/>95082<br/>95084<br/>95447<br/>95448<br/>98172<br/>125487<br/>125909<br/>125910<br/>131262<br/>190796<br/>208781<br/>230256<br/>275965<br/>289525<br/>289525<br/>289567<br/>384064<br/>384847<br/>386981<br/>386982<br/>392896<br/>392901<br/>397085<br/>397085</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>A<br/>A<br/>T<br/>T<br/>A<br/>A<br/>G<br/>G<br/>C<br/>C<br/>C<br/>G<br/>G<br/>G<br/>G<br/>G<br/>G<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78       78       78       36       42       38       54       42       39       44       51       50       54       46       54       46       54       55       63       55       69       51       63       54       54       55       63       66       66       63       54       55       66       66       63       66       63       78       52       69       69</td></td></tr> <tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07<!--</td--><td>181041           181041           181041           181041           19132           19138           192394           219387           236216           248160           8152           76881           8967           89610           89735           89751           95084           95084           95447           125909           125910           131262           190796           208781           230256           286729           289525           28967           319322           384064           384847           386982           392901           397085           397086           397085</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>T<br/>G<br/>G<br/>G<br/>G<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78       78       78       78       36       42       38       54       42       39       44       51       50       54       39       46       46       55       63       54       54       55       69       51       63       63       36       54       51       63       63       63       63       63       63       63       63       63       63       63       63       63       63       63       63       64       65       66       66       66       66       63       63       63       63       63       63       63       64       65       66       66       67       68       69       69   </td></td></tr> <tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07<!--</td--><td>181041<br/>181041<br/>181041<br/>191312<br/>191387<br/>236216<br/>248160<br/>89735<br/>89610<br/>89735<br/>89751<br/>95082<br/>95084<br/>95447<br/>95082<br/>95084<br/>95447<br/>125909<br/>125910<br/>131262<br/>190796<br/>208781<br/>230256<br/>275965<br/>286729<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>299201<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>A<br/>A<br/>T<br/>T<br/>A<br/>A<br/>C<br/>C<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>G<br/>G<br/>G<br/>G<br/>G<br/>G<br/>G<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78       78       78       36       42       38       54       42       39       44       51       50       54       46       46       54       55       66       63       54       55       66       63       54       54       54       54       54       54       54       54       54       54       54       54       54       54       54       54       66       63       66       63       66       63       66       63      
66       63       66       63       66       63       66       63       66       63       66       63       66       69       69       54       20  </td></td></tr> <tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07<!--</td--><td>181041           181041           181041           181041           191312           191387           236216           248160           8152           76881           89587           89610           89751           95082           95084           98172           125407           125909           125910           131262           190796           208781           230256           289625           289527           384063           384064           384846           384846           392896           392001           397085           397086           392901           397855</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78         78         78         78         36         42         38         54         42         39         44         51         50         54         46         46         46         55         63         54         54         55         63         64         69         51         63         36         54         55         66         63         36         54         51         63         36         54         51         63         66         63         63         66         63         63         66         63         63         78         52         69         69         54         38</td></td></tr> <tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07<!--</td--><td>181041           181041           181041           181041           191312           191388           192394           219387           236216           248160           84152           76881           89587           89610           89751           95084           951447           95447           95084           98172           125487           125910           131262           190796           208781           230256           275965           286729           289525           289525           289525           289525           289567           319332           384063           38446           384846           384846           397085           397086           397086           397086           397855           397668</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>T<br/>T<br/>C<br/>A<br/>C<br/>C<br/>-<br/>-<br/>C<br/>C<br/>-<br/>-<br/>A<br/>C<br/>C<br/>-<br/>-<br/>C<br/>C<br/>-<br/>-<br/>A<br/>T<br/>T<br/>A<br/>A<br/>C<br/>C<br/>-<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78         78         78         36         42         38         54         42         39         44         51         50         54         39         46         54         55         63         54         54         54         55         69         48         69         51         63         36         54         54         54         55         69         44         63         36         54         52         66         63         63         78         52         69         69         54         38         38          38    </td></td></tr> | 181041           181041           181041           181041           191312           191388           192394           219387           236216           248160           8152           76881           8967           89751           95084           95147           95084           98172           125487           125909           125910           131262           190796           289525           289525           28967           319332           384063           384484           384846           384847           386982           392896           3928901           397085              | -<br>-<br>T<br>G<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C  | C<br>T<br>T<br>A<br>T<br>-<br>G<br>A<br>T<br>C<br>-<br>-<br>C<br>-<br>-<br>C<br>-<br>-<br>C<br>-<br>-<br>-<br>A<br>T<br>T<br>A<br>A<br>C<br>-<br>-<br>-<br>C<br>-<br>-<br>-<br>-<br>C<br>-<br>-<br>-<br>C<br>C<br>-<br>-<br>-<br>- | 78         78         78         36         42         38         54         42         39         44         51         50         54         39         46         46         54         55         69         48         69         51         63         54         55         69         54         55         69         54         55         69         63         54         55         69         63         54         55         66         66         63         63         63         63         63         63         63         63         63         63         63         63         63         64 | chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07 </td <td>181041<br/>181041<br/>181041<br/>191312<br/>191387<br/>236216<br/>248160<br/>8152<br/>76881<br/>89587<br/>89610<br/>89735<br/>89751<br/>95082<br/>95084<br/>95447<br/>95448<br/>98172<br/>125487<br/>125909<br/>125910<br/>131262<br/>190796<br/>208781<br/>230256<br/>275965<br/>289525<br/>289525<br/>289567<br/>384064<br/>384847<br/>386981<br/>386982<br/>392896<br/>392901<br/>397085<br/>397085</td> <td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>C<br/>T<br/>T<br/>A<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>A<br/>A<br/>T<br/>T<br/>A<br/>A<br/>G<br/>G<br/>C<br/>C<br/>C<br/>G<br/>G<br/>G<br/>G<br/>G<br/>G<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>78       78       78       36       42       38       54       42       39       44       51       50       54       46       54       46       54       55       63       55       69       51       63       54       54       55       63       66       66       63       54       55       66       66       63       66       63       78       52       69       69</td>   
  | 181041<br>181041<br>181041<br>191312<br>191387<br>236216<br>248160<br>8152<br>76881<br>89587<br>89610<br>89735<br>89751<br>95082<br>95084<br>95447<br>95448<br>98172<br>125487<br>125909<br>125910<br>131262<br>190796<br>208781<br>230256<br>275965<br>289525<br>289525<br>289567<br>384064<br>384847<br>386981<br>386982<br>392896<br>392901<br>397085<br>397085   | -<br>-<br>T<br>G<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>C<br>C<br>C<br>A<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C | C<br>T<br>T<br>A<br>T<br>T<br>A<br>A<br>T<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>A<br>A<br>T<br>T<br>A<br>A<br>G<br>G<br>C<br>C<br>C<br>G<br>G<br>G<br>G<br>G<br>G<br>C<br>C<br>C<br>C<br>C<br>C<br>C                | 78       78       78       36       42       38       54       42       39       44       51       50       54       46       54       46       54       55       63       55       69       51       63       54       54       55       63       66       66       63       54       55       66       66       63       66       63       78       52       69       69  | chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07 </td <td>181041           181041           181041           181041           19132           19138           192394           219387           236216           248160           8152           76881           8967           89610           89735           89751           95084           95084           95447           125909           125910           131262           190796           208781           230256           286729           289525           28967           319322           384064           384847           386982           392901           397085           397086           397085</td> <td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>T<br/>G<br/>G<br/>G<br/>G<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>C<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>78       78       78       78       36       42       38       54       42       39       44       51       50       54       39       46       46       55       63       54       54       55       69       51       63       63       36       54       51       63       63       63       63       63       63       63       63       63       63       63       63       63       63       63       63       64       65       66       66       66       66       63       63       63       63       63       63       63       64       65       66       66       67       68       69       69   </td>   | 181041           181041           181041           181041           19132           19138           192394           219387           236216           248160           8152           76881           8967           89610           89735           89751           95084           95084           95447           125909           125910           131262           190796           208781           230256           286729           289525           28967           319322           384064           384847           386982           392901           397085           397086           397085 | -<br>-<br>T<br>G<br>C<br>C<br>A<br>C<br>C<br>A<br>T<br>G<br>G<br>G<br>G<br>C<br>C<br>A<br>-<br>C<br>C<br>A<br>-<br>C<br>C<br>A<br>-<br>C<br>C<br>A<br>-<br>C<br>C<br>A<br>-<br>C<br>C<br>C<br>A<br>-<br>C<br>C<br>C<br>C<br>C<br>A<br>-<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C   | C<br>T<br>T<br>A<br>A<br>T<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C | 78       78       78       78       36       42       38       54       42       39       44       51       50       54       39       46       46       55       63       54       54       55       69       51       63       63       36       54       51       63       63       63       63       63       63       63       63       63       63       63       63       63       63       63       63       64       65       66       66       66       66       63       63       63       63       63       63       63       64       65       66       66       67       68       69       69          | chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07 </td
<td>181041<br/>181041<br/>181041<br/>191312<br/>191387<br/>236216<br/>248160<br/>89735<br/>89610<br/>89735<br/>89751<br/>95082<br/>95084<br/>95447<br/>95082<br/>95084<br/>95447<br/>125909<br/>125910<br/>131262<br/>190796<br/>208781<br/>230256<br/>275965<br/>286729<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>299201<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085</td> <td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>C<br/>T<br/>T<br/>A<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>A<br/>A<br/>T<br/>T<br/>A<br/>A<br/>C<br/>C<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>G<br/>G<br/>G<br/>G<br/>G<br/>G<br/>G<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>78       78       78       36       42       38       54       42       39       44       51       50       54       46       46       54       55       66       63       54       55       66       63       54       54       54       54       54       54       54       54       54       54       54       54       54       54       54       54       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       69       69       54       20  </td> | 181041<br>181041<br>181041<br>191312<br>191387<br>236216<br>248160<br>89735<br>89610<br>89735<br>89751<br>95082<br>95084<br>95447<br>95082<br>95084<br>95447<br>125909<br>125910<br>131262<br>190796<br>208781<br>230256<br>275965<br>286729<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>299201<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085 | -<br>-<br>T<br>G<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C | C<br>T<br>T<br>A<br>T<br>T<br>A<br>A<br>T<br>C<br>C<br>-<br>C<br>C<br>-<br>C<br>C<br>-<br>A<br>A<br>T<br>T<br>A<br>A<br>C<br>C<br>-<br>C<br>C<br>C<br>C<br>C<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>C<br>C<br>C<br>C<br>C                     | 78       78       78       36       42       38       54       42       39       44       51       50       54       46       46       54       55       66       63       54       55       66       63       54       54       54       54       54       54       54       54       54       54       54       54       54       54       54       54       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       69       69       54       20 | chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07 </td <td>181041           181041           181041           181041           191312           191387           236216           248160           8152           76881           89587           89610           89751           95082           95084           98172           125407           125909           125910           131262           190796           208781           230256           289625           289527           384063           384064           384846           384846           392896           392001           397085           397086           392901           397855</td> <td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>C<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>78         78         78         78         36         42         38         54         42         39         44         51         50         54         46         46         46         55         63         54         54         55         63         64         69         51         63         36         54         55         66         63         36         54         51         63         36         54         51         63         66         63         63         66         63         63         66         63         63         78         52         69         69         54         38</td> | 181041           181041           181041           181041           191312           191387           236216           248160           8152           76881           89587           89610           89751           95082           95084           98172           125407           125909           125910          
131262           190796           208781           230256           289625           289527           384063           384064           384846           384846           392896           392001           397085           397086           392901           397855 | -<br>-<br>T<br>G<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>C<br>A<br>C<br>C<br>C<br>A<br>C<br>C<br>C<br>A<br>C<br>C<br>C<br>C<br>C<br>A<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C | C<br>T<br>T<br>A<br>A<br>T<br>C<br>A<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C | 78         78         78         78         36         42         38         54         42         39         44         51         50         54         46         46         46         55         63         54         54         55         63         64         69         51         63         36         54         55         66         63         36         54         51         63         36         54         51         63         66         63         63         66         63         63         66         63         63         78         52         69         69         54         38 | chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07 </td <td>181041           181041           181041           181041           191312           191388           192394           219387           236216           248160           84152           76881           89587           89610           89751           95084           951447           95447           95084           98172           125487           125910           131262           190796    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 289567           319332           384063           38446           384846           384846           397085           397086           397086           397086           397855           397668 | -<br>-<br>T<br>G<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C | C<br>T<br>T<br>A<br>T<br>T<br>C<br>A<br>C<br>C<br>-<br>-<br>C<br>C<br>-<br>-<br>A<br>C<br>C<br>-<br>-<br>C<br>C<br>-<br>-<br>A<br>T<br>T<br>A<br>A<br>C<br>C<br>-<br>-<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C | 78         78         78         36         42         38         54         42         39         44         51         50         54         39         46         54         55         63         54         54         54         55         69         48         69         51         63         36         54         54         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| chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07 <tr td=""> <t< td=""><td>181041           181041           181041           181041           191312           191387           236216           248160           8152           76881           89587           89610           89751           95084           95447           95448           98172           125487           125590           131262           190796           208781           230525           289525           289525           289567           384063           384484           384846           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td=""><td>181041<br/>181041<br/>181041<br/>191312<br/>191387<br/>236216<br/>248160<br/>8152<br/>76881<br/>89587<br/>89610<br/>89735<br/>89751<br/>95082<br/>95084<br/>95447<br/>95584<br/>95447<br/>95582<br/>95084<br/>95447<br/>125909<br/>125910<br/>131262<br/>190796<br/>208781<br/>230256<br/>275965<br/>286729<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289567<br/>319332<br/>384064<br/>384846<br/>384847<br/>386981<br/>386982</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>T<br/>T<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>A<br/>T<br/>T<br/>A<br/>A<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78       78       78       36       42       38       54       42       39       44       51       50       54       46       46       54       55       66       63       36       54       52       66       63       63       78       70</td></t<></tr><tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07      <tr td=""> <t< td=""><td>181041           181041           181041           181041           191312           191387           236216           248160           8152           76881           89587           89610           89751           95082           95084           98172           125407           125909           125910           131262           190796           208781           230256           289627           384063           384064           384846           386981           386982           392896           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289525           289525           28967           319332           384063           384484           384846           384847           386982           392896           3928901           397085</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>T<br/>-<br/>G<br/>A<br/>T<br/>C<br/>-<br/>-<br/>C<br/>-<br/>-<br/>C<br/>-<br/>-<br/>C<br/>-<br/>-<br/>-<br/>A<br/>T<br/>T<br/>A<br/>A<br/>C<br/>-<br/>-<br/>-<br/>C<br/>-<br/>-<br/>-<br/>-<br/>C<br/>-<br/>-<br/>-<br/>C<br/>C<br/>-<br/>-<br/>-<br/>-</td><td>78         78         78         36         42         38         54         42         39         44         51         50         54         39         46         46         54         55         69         48         69         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      78       78       36       42       38       54       42       39       44       51       50       54       46       54       46       54       55       63       55       69       51       63       54       54       55       63       66       66       63       54       55       66       66       63       66       63       78       52       69       69</td></td></tr><tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07<!--</td--><td>181041           181041           181041           181041           19132           19138           192394           219387           236216           248160           8152           76881           8967           89610           89735           89751           95084           95084           95447           125909           125910           131262           190796           208781           230256           286729           289525           28967           319322           384064           384847           386982           392901           397085           397086           397085</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>T<br/>G<br/>G<br/>G<br/>G<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78       78       78       78       36       42       38       54       42       39       44       51       50       54       39       46       46       55       63       54       54       55       69       51       63       63       36       54       51       63       63       63       63       63       63       63       63       63       63       63       63       63 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      78       78       36       42       38       54       42       39       44       51       50       54       46       46       54       55       66       63       54       55       66       63       54       54       54       54       54       54       54       54       54       54       54       54       54       54       54       54       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       69       69       54       20  </td></td></tr><tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07<!--</td--><td>181041           181041           181041           181041           191312           191387           236216           248160           8152           76881           89587           89610           89751           95082           95084           98172           125407           125909           125910           131262           190796           208781           230256           289625           289527           384063           384064           384846           384846           392896           392001           397085           397086           392901          
397855</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78         78         78         78         36         42         38         54         42         39         44         51         50         54         46         46         46         55         63         54         54         55         63         64         69         51         63         36         54         55         66         63         36         54         51         63         36         54         51         63         66         63         63         66         63         63         66         63         63         78         52         69         69         54         38</td></td></tr><tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07<!--</td--><td>181041           181041           181041           181041           191312           191388           192394           219387           236216           248160           84152           76881           89587           89610           89751           95084           951447           95447           95084           98172           125487           125910           131262           190796           208781           230256           275965           286729           289525           289525           289525           289525           289567           319332           384063           38446           384846           384846           397085           397086           397086           397086           397855           397668</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>T<br/>T<br/>C<br/>A<br/>C<br/>C<br/>-<br/>-<br/>C<br/>C<br/>-<br/>-<br/>A<br/>C<br/>C<br/>-<br/>-<br/>C<br/>C<br/>-<br/>-<br/>A<br/>T<br/>T<br/>A<br/>A<br/>C<br/>C<br/>-<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78         78         78         36         42         38         54         42         39         44         51         50         54         39         46         54         55         63         54         54         54         55         69         48         69         51         63         36         54         54         54         55         69         44         63         36         54         52         66         63         63         78         52         69         69         54         38         38          38    </td></td></tr></td></tr></td></tr></td></tr>  | 181041           181041           181041           181041           191312           191387           236216           248160           8152           76881           89587           89610           89751           95084           95447           95448           98172           125487           125590           131262           190796           208781           230525           289525           289525           289567           384063           384484      
    384846           384847  | -<br>-<br>T<br>G<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>C<br>C<br>A<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C  | C<br>T<br>T<br>A<br>T<br>T<br>A<br>A<br>T<br>C<br>C<br>-<br>C<br>C<br>-<br>A<br>A<br>T<br>A<br>A<br>C<br>C<br>-<br>C<br>C<br>-<br>A<br>T<br>A<br>A<br>C<br>C<br>-<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C  | 78       78       78       36       42       38       54       42       39       44       51       50       54       39       46       54       55       63       55       69       51       63       36       54       55       66       66   | chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07 </td <td>181041<br/>181041<br/>181041<br/>191312<br/>191388<br/>192394<br/>219387<br/>236216<br/>248160<br/>8152<br/>76881<br/>89587<br/>89610<br/>89735<br/>89751<br/>95082<br/>95084<br/>95447<br/>95448<br/>98172<br/>125910<br/>131262<br/>125910<br/>131262<br/>208781<br/>230256<br/>275965<br/>288729<br/>289525<br/>289567<br/>319332<br/>384063<br/>384064<br/>384847<br/>386981</td> <td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>T<br/>G<br/>G<br/>G<br/>G<br/>G<br/>G<br/>G<br/>G<br/>G<br/>G<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>C<br/>T<br/>T<br/>A<br/>A<br/>T<br/>-<br/>G<br/>A<br/>T<br/>C<br/>-<br/>-<br/>C<br/>-<br/>-<br/>C<br/>-<br/>-<br/>A<br/>T<br/>T<br/>A<br/>A<br/>G<br/>C<br/>-<br/>-<br/>-<br/>A<br/>T<br/>T<br/>A<br/>A<br/>G<br/>C<br/>-<br/>-<br/>-<br/>-<br/>-<br/>C<br/>C<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-</td> <td>78       78       78       36       42       38       54       42       39       44       51       50       54       39       46       55       63       54       55       69       51       63       36       54       37       55       69       51       63       36       54       42       42       66       66       63</td>   
   
  | 181041<br>181041<br>181041<br>191312<br>191388<br>192394<br>219387<br>236216<br>248160<br>8152<br>76881<br>89587<br>89610<br>89735<br>89751<br>95082<br>95084<br>95447<br>95448<br>98172<br>125910<br>131262<br>125910<br>131262<br>208781<br>230256<br>275965<br>288729<br>289525<br>289567<br>319332<br>384063<br>384064<br>384847<br>386981   | -<br>-<br>T<br>G<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>T<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C  | C<br>T<br>T<br>A<br>A<br>T<br>-<br>G<br>A<br>T<br>C<br>-<br>-<br>C<br>-<br>-<br>C<br>-<br>-<br>A<br>T<br>T<br>A<br>A<br>G<br>C<br>-<br>-<br>-<br>A<br>T<br>T<br>A<br>A<br>G<br>C<br>-<br>-<br>-<br>-<br>-<br>C<br>C<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- | 78       78       78       36       42       38       54       42       39       44       51       50       54       39       46       55       63       54       55       69       51       63       36       54       37       55       69       51       63       36       54       42       42       66       66       63  | chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07 </td <td>181041<br/>181041<br/>181041<br/>191312<br/>191387<br/>236216<br/>248160<br/>8152<br/>76881<br/>89587<br/>89610<br/>89735<br/>89751<br/>95082<br/>95084<br/>95447<br/>95082<br/>95084<br/>95447<br/>125407<br/>125407<br/>125407<br/>125407<br/>125407<br/>125407<br/>125407<br/>125407<br/>131262<br/>190796<br/>208781<br/>230256<br/>275965<br/>286729<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289567<br/>319332<br/>384064<br/>384846<br/>384847<br/>386981<br/>386982</td> <td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>C<br/>T<br/>T<br/>A<br/>T<br/>T<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>A<br/>T<br/>T<br/>A<br/>A<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>G<br/>G<br/>G<br/>G<br/>G<br/>G<br/>G<br/>C<br/>C<br/>C<br/>C</td> <td>78         78         78         36         42         38         54         42         39         44         51         50         54         39         46         54         55         63         54         54         54         55         69         48         69         51         63         36         54         54         54         54         54         54         54         54         55         69         48         69         51         63         36         54         42         66         63         63         63          66          63          63          64          65</td>  
   
   
   | 181041<br>181041<br>181041<br>191312<br>191387<br>236216<br>248160<br>8152<br>76881<br>89587<br>89610<br>89735<br>89751<br>95082<br>95084<br>95447<br>95082<br>95084<br>95447<br>125407<br>125407<br>125407<br>125407<br>125407<br>125407<br>125407<br>125407<br>131262<br>190796<br>208781<br>230256<br>275965<br>286729<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289567<br>319332<br>384064<br>384846<br>384847<br>386981<br>386982   | -<br>-<br>T<br>G<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C   | C<br>T<br>T<br>A<br>T<br>T<br>C<br>C<br>-<br>C<br>C<br>-<br>C<br>C<br>-<br>C<br>C<br>-<br>A<br>T<br>T<br>A<br>A<br>C<br>C<br>-<br>C<br>C<br>-<br>C<br>C<br>C<br>C<br>C<br>C<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>C<br>C<br>C<br>C           | 78         78         78         36         42         38         54         42         39         44         51         50         54         39         46         54         55         63         54         54         54         55         69         48         69         51         63         36         54         54         54         54         54         54         54         54         55         69         48         69         51         63         36         54         42         66         63         63         63          66          63          63          64          65       | chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07 </td <td>181041<br/>181041<br/>181041<br/>191312<br/>191388<br/>192394<br/>219387<br/>236216<br/>248160<br/>8152<br/>76881<br/>89587<br/>89610<br/>89735<br/>89751<br/>95082<br/>95084<br/>95447<br/>95448<br/>98172<br/>125487<br/>125909<br/>125910<br/>131262<br/>190796<br/>208781<br/>230256<br/>275965<br/>289525<br/>289525<br/>289567<br/>319332<br/>384063<br/>384064<br/>384846<br/>386982<br/>39286</td> <td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>A<br/>C<br/>A<br/>C<br/>A<br/>C<br/>A<br/>C<br/>A<br/>C<br/>A<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>C<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>78         78         78         36         42         38         54         42         39         46         54         56         57         63         54         55         69         54         55         69         51         63         36         54         54         55         69         42         42         42         66         63         63         66         63         63         66         63         63         66         63         63         63         63         63         63         63         63         63         63         63         63         64         54         <!--</td--></td>   
  | 181041<br>181041<br>181041<br>191312<br>191388<br>192394<br>219387<br>236216<br>248160<br>8152<br>76881<br>89587<br>89610<br>89735<br>89751<br>95082<br>95084<br>95447<br>95448<br>98172<br>125487<br>125909<br>125910<br>131262<br>190796<br>208781<br>230256<br>275965<br>289525<br>289525<br>289567<br>319332<br>384063<br>384064<br>384846<br>386982<br>39286  | -<br>-<br>T<br>G<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>A<br>C<br>A<br>C<br>A<br>C<br>A<br>C<br>A<br>C<br>A<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>C<br>C<br>C<br>A<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C | C<br>T<br>T<br>A<br>A<br>T<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C   | 78         78         78         36         42         38         54         42         39         46         54         56         57         63         54         55         69         54         55         69         51         63         36         54         54         55         69         42         42         42         66         63         63         66         63         63         66         63         63         66         63         63         63         63         63         63         63         63         63         63         63         63         64         54 </td | chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07 <tr td=""> <t< td=""><td>181041<br/>181041<br/>181041<br/>191312<br/>191387<br/>236216<br/>248160<br/>8152<br/>76881<br/>89587<br/>89610<br/>89735<br/>89751<br/>95082<br/>95084<br/>95447<br/>95584<br/>95447<br/>95582<br/>95084<br/>95447<br/>125909<br/>125910<br/>131262<br/>190796<br/>208781<br/>230256<br/>275965<br/>286729<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289567<br/>319332<br/>384064<br/>384846<br/>384847<br/>386981<br/>386982</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>T<br/>T<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>A<br/>T<br/>T<br/>A<br/>A<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78       78       78       36       42       38       54       42       39       44       51       50       54       46       46       54       55       66       63       36       54       52       66       63       63       78       70</td></t<></tr> <tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07      <tr td=""> <t< td=""><td>181041           181041           181041           181041           191312           191387           236216           248160           8152           76881           89587           89610           89751           95082           95084           98172           125407           125909           125910           131262           190796           208781           230256           289627           384063           384064           384846           386981           386982           392896           392001</td><td>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-</td><td>C<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78         78         78         36         42         38         54         42         39         44         51         50         54         39         46         54         55         63         55         69         48         69         51         63         36         54         54         55         63         66         63         66         63         66         63         66         63         78         52</td></t<></tr><tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07      <tr td=""> <t< td=""><td>181041           181041           181041           181041           191312           191388           192394           219387           236216           248160           8152           76881           8967           89751           95084           95147           95084           98172           125487           125909           125910           131262           190796           289525           289525           28967           319332           384063           384484           384846           384847           386982           392896           3928901           397085</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>T<br/>-<br/>G<br/>A<br/>T<br/>C<br/>-<br/>-<br/>C<br/>-<br/>-<br/>C<br/>-<br/>-<br/>C<br/>-<br/>-<br/>-<br/>A<br/>T<br/>T<br/>A<br/>A<br/>C<br/>-<br/>-<br/>-<br/>C<br/>-<br/>-<br/>-<br/>-<br/>C<br/>-<br/>-<br/>-<br/>C<br/>C<br/>-<br/>-<br/>-<br/>-</td><td>78         78         78         36         42         38         54         42         39         44         51         50         54         39         46         46         54         55         69         48         69         51         63         54         55         69         54         55         69         54         55         69         63         54         55         69         63         54         55         66         66         63         63         63         63         63         63         63         63         63         63         63         63         63         64</td></t<></tr><tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           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      78       78       36       42       38       54       42       39       44       51       50       54       46       54       46       54       55      
63       55       69       51       63       54       54       55       63       66       66       63       54       55       66       66       63       66       63       78       52       69       69</td></td></tr><tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07<!--</td--><td>181041           181041           181041           181041           19132           19138           192394           219387           236216           248160           8152           76881           8967           89610           89735           89751           95084           95084           95447           125909           125910           131262           190796           208781           230256           286729           289525           28967           319322           384064           384847           386982           392901           397085           397086           397085</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>T<br/>G<br/>G<br/>G<br/>G<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78       78       78       78       36       42       38       54       42       39       44       51       50       54       39       46       46       55       63       54       54       55       69       51       63       63       36       54       51       63       63       63       63       63       63       63       63       63       63       63       63       63       63       63       63       64       65       66       66       66       66       63       63       63       63       63 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chr07<!--</td--><td>181041<br/>181041<br/>181041<br/>191312<br/>191387<br/>236216<br/>248160<br/>89735<br/>89610<br/>89735<br/>89751<br/>95082<br/>95084<br/>95447<br/>95082<br/>95084<br/>95447<br/>125909<br/>125910<br/>131262<br/>190796<br/>208781<br/>230256<br/>275965<br/>286729<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>299201<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>A<br/>A<br/>T<br/>T<br/>A<br/>A<br/>C<br/>C<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>G<br/>G<br/>G<br/>G<br/>G<br/>G<br/>G<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78       78       78       36       42       38       54       42       39       44       51       50       54       46       46       54       55       66       63       54       55       66       63       54       54       54       54       54       54       54       54       54       54       54       54       54       54       54       54       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       69       69       54       20  </td></td></tr><tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07<!--</td--><td>181041           181041           181041           181041           191312           191387           236216           248160           8152           76881           89587           89610           89751           95082           95084           98172           125407           125909           125910           131262           190796           208781           230256           289625           289527           384063           384064           384846           384846           392896           392001           397085           397086           392901           397855</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78         78         78         78         36         42         38         54         42         39         44         51         50         54         46         46         46         55         63         54         54         55         63         64         69         51         63         36         54         55         66         63         36         54         51         63         36         54         51         63         66         63         63         66         63         63         66         63         63         78         52         69         69         54         38</td></td></tr><tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07<!--</td--><td>181041           181041           181041           181041           191312           191388           192394           219387           236216           248160           84152           76881           89587           89610           89751           95084           951447           95447           95084           98172           125487           125910           131262           190796           208781           230256           275965           286729           289525           289525           289525           289525           289567           319332           384063           38446           384846           384846           397085           397086           397086           397086           397855           397668</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>T<br/>T<br/>C<br/>A<br/>C<br/>C<br/>-<br/>-<br/>C<br/>C<br/>-<br/>-<br/>A<br/>C<br/>C<br/>-<br/>-<br/>C<br/>C<br/>-<br/>-<br/>A<br/>T<br/>T<br/>A<br/>A<br/>C<br/>C<br/>-<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78         78         78         36         42         38         54         42         39         44         51         50         54         39         46         54    
    55         63         54         54         54         55         69         48         69         51         63         36         54         54         54         55         69         44         63         36         54         52         66         63         63         78         52         69         69         54         38         38          38    </td></td></tr></td></tr></td></tr> | 181041<br>181041<br>181041<br>191312<br>191387<br>236216<br>248160<br>8152<br>76881<br>89587<br>89610<br>89735<br>89751<br>95082<br>95084<br>95447<br>95584<br>95447<br>95582<br>95084<br>95447<br>125909<br>125910<br>131262<br>190796<br>208781<br>230256<br>275965<br>286729<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289567<br>319332<br>384064<br>384846<br>384847<br>386981<br>386982  | -<br>-<br>T<br>G<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C  | C<br>T<br>T<br>A<br>T<br>T<br>C<br>C<br>-<br>C<br>C<br>-<br>C<br>C<br>-<br>C<br>C<br>-<br>C<br>C<br>-<br>A<br>T<br>T<br>A<br>A<br>C<br>C<br>-<br>C<br>C<br>-<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C           | 78       78       78       36       42       38       54       42       39       44       51       50       54       46       46       54       55       66       63       36       54       52       66       63       63       78       70   | chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07 <tr td=""> <t< td=""><td>181041           181041           181041           181041           191312           191387           236216           248160           8152           76881           89587           89610           89751           95082           95084           98172           125407           125909           125910           131262           190796           208781           230256           289627           384063           384064           384846           386981           386982           392896           392001</td><td>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-</td><td>C<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78         78         78         36         42         38         54         42         39         44         51         50         54         39         46         54         55         63         55         69         48         69         51         63         36         54         54         55         63         66         63         66         63         66         63         66         63         78         52</td></t<></tr> <tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07      <tr td=""> <t< td=""><td>181041           181041           181041           181041           191312           191388           192394           219387           236216           248160           8152           76881           8967           89751           95084           95147           95084           98172           125487           125909           125910           131262           190796           289525           289525           28967           319332           384063           384484           384846           384847           386982           392896           3928901           397085</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>T<br/>-<br/>G<br/>A<br/>T<br/>C<br/>-<br/>-<br/>C<br/>-<br/>-<br/>C<br/>-<br/>-<br/>C<br/>-<br/>-<br/>-<br/>A<br/>T<br/>T<br/>A<br/>A<br/>C<br/>-<br/>-<br/>-<br/>C<br/>-<br/>-<br/>-<br/>-<br/>C<br/>-<br/>-<br/>-<br/>C<br/>C<br/>-<br/>-<br/>-<br/>-</td><td>78         78         78         36         42         38         54         42         39         44         51         50         54         39         46         46         54         55         69         48         69         51         63         54         55         69         54         55         69         54         55         69         63         54         55         69         63         54         55         66         66         63         63         63         63         63         63         63         63         63         63         63         63         63         64</td></t<></tr><tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07<!--</td--><td>181041<br/>181041<br/>181041<br/>191312<br/>191387<br/>236216<br/>248160<br/>8152<br/>76881<br/>89587<br/>89610<br/>89735<br/>89751<br/>95082<br/>95084<br/>95447<br/>95448<br/>98172<br/>125487<br/>125909<br/>125910<br/>131262<br/>190796<br/>208781<br/>230256<br/>275965<br/>289525<br/>289525<br/>289567<br/>384064<br/>384847<br/>386981<br/>386982<br/>392896<br/>392901<br/>397085<br/>397085</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>A<br/>A<br/>T<br/>T<br/>A<br/>A<br/>G<br/>G<br/>C<br/>C<br/>C<br/>G<br/>G<br/>G<br/>G<br/>G<br/>G<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78       78       78       36       42       38       54       42       39       44       51       50       54       46       54       46       54       55       63       55       69       51       63       54       54       55       63       66       66       63       54       55       66       66       63       66       63       78       52       69       69</td></td></tr><tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07<!--</td--><td>181041           181041           181041           181041           19132           19138           192394           219387           236216           248160           8152           76881           8967           89610           89735           89751           95084           95084           95447           125909           125910           131262           190796           208781           230256           286729           289525           28967           319322           384064           384847           386982           392901           397085           397086          
397085</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>T<br/>G<br/>G<br/>G<br/>G<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78       78       78       78       36       42       38       54       42       39       44       51       50       54       39       46       46       55       63       54       54       55       69       51       63       63       36       54       51       63       63       63       63       63       63       63       63       63       63       63       63       63       63       63       63       64       65       66       66       66       66       63       63       63       63       63 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chr07<!--</td--><td>181041<br/>181041<br/>181041<br/>191312<br/>191387<br/>236216<br/>248160<br/>89735<br/>89610<br/>89735<br/>89751<br/>95082<br/>95084<br/>95447<br/>95082<br/>95084<br/>95447<br/>125909<br/>125910<br/>131262<br/>190796<br/>208781<br/>230256<br/>275965<br/>286729<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>299201<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>A<br/>A<br/>T<br/>T<br/>A<br/>A<br/>C<br/>C<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>G<br/>G<br/>G<br/>G<br/>G<br/>G<br/>G<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78       78       78       36       42       38       54       42       39       44       51       50       54       46       46       54       55       66       63       54       55       66       63       54       54       54       54       54       54       54       54       54       54       54       54       54       54       54       54       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       69       69       54       20  </td></td></tr><tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07<!--</td--><td>181041           181041           181041           181041           191312           191387           236216           248160           8152           76881           89587           89610           89751           95082           95084           98172           125407           125909           125910           131262           190796           208781           230256           289625           289527           384063           384064           384846           384846           392896           392001           397085           397086           392901           397855</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78         78         78         78         36         42         38         54         42         39         44         51         50         54         46         46         46         55         63         54         54         55         63         64         69         51         63         36         54         55         66         63         36         54         51         63         36         54         51         63         66         63         63         66         63         63         66         63         63         78         52         69         69         54         38</td></td></tr><tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07<!--</td--><td>181041           181041           181041           181041           191312           191388           192394           219387           236216           248160           84152           76881           89587           89610           89751           95084           951447           95447           95084           98172           125487           125910           131262           190796           208781           230256           275965           286729           289525           289525           289525           289525           289567           319332           384063           38446           384846           384846           397085           397086           397086           397086           397855           397668</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>T<br/>T<br/>C<br/>A<br/>C<br/>C<br/>-<br/>-<br/>C<br/>C<br/>-<br/>-<br/>A<br/>C<br/>C<br/>-<br/>-<br/>C<br/>C<br/>-<br/>-<br/>A<br/>T<br/>T<br/>A<br/>A<br/>C<br/>C<br/>-<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78         78         78         36         42         38         54         42         39         44         51         50         54         39         46         54         55         63         54         54         54         55         69         48         69         51         63         36         54         54         54         55         69         44         63         36         54         52         66         63         63         78         52         69         69         54         38         38          38    </td></td></tr></td></tr> | 181041           181041           181041           181041           191312           191387           236216           248160           8152           76881           89587           89610           89751           95082           95084           98172           125407           125909           125910           131262           190796           208781           230256           289627           384063           384064           384846           386981           386982           392896           392001   
  | -<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-  | C<br>T<br>T<br>A<br>A<br>T<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C   | 78         78         78         36         42         38         54         42         39         44         51         50         54         39         46         54         55         63         55         69         48         69         51         63         36         54         54         55         63         66         63         66         63         66         63         66         63         78         52   | chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07 <tr td=""> <t< td=""><td>181041           181041           181041           181041           191312           191388           192394           219387           236216           248160           8152           76881           8967           89751           95084           95147           95084           98172           125487           125909           125910           131262           190796           289525           289525           28967           319332           384063           384484           384846           384847           386982           392896           3928901           397085</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>T<br/>-<br/>G<br/>A<br/>T<br/>C<br/>-<br/>-<br/>C<br/>-<br/>-<br/>C<br/>-<br/>-<br/>C<br/>-<br/>-<br/>-<br/>A<br/>T<br/>T<br/>A<br/>A<br/>C<br/>-<br/>-<br/>-<br/>C<br/>-<br/>-<br/>-<br/>-<br/>C<br/>-<br/>-<br/>-<br/>C<br/>C<br/>-<br/>-<br/>-<br/>-</td><td>78         78         78         36         42         38         54         42         39         44         51         50         54         39         46         46         54         55         69         48         69         51         63         54         55         69         54         55         69         54         55         69         63         54         55         69         63         54         55         66         66         63         63         63         63         63         63         63         63         63         63         63         63         63         64</td></t<></tr> <tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07<!--</td--><td>181041<br/>181041<br/>181041<br/>191312<br/>191387<br/>236216<br/>248160<br/>8152<br/>76881<br/>89587<br/>89610<br/>89735<br/>89751<br/>95082<br/>95084<br/>95447<br/>95448<br/>98172<br/>125487<br/>125909<br/>125910<br/>131262<br/>190796<br/>208781<br/>230256<br/>275965<br/>289525<br/>289525<br/>289567<br/>384064<br/>384847<br/>386981<br/>386982<br/>392896<br/>392901<br/>397085<br/>397085</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>A<br/>A<br/>T<br/>T<br/>A<br/>A<br/>G<br/>G<br/>C<br/>C<br/>C<br/>G<br/>G<br/>G<br/>G<br/>G<br/>G<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78       78       78       36       42       38       54       42       39       44       51       50       54       46       54       46       54       55       63       55       69       51       63       54       54       55       63       66       66       63       54       55       66       66       63       66       63       78       52       69       69</td></td></tr> <tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07<!--</td--><td>181041           181041           181041           181041           19132           19138           192394           219387           236216           248160           8152           76881           8967           89610           89735           89751           95084           95084           95447           125909           125910           131262           190796           208781           230256           286729           289525           28967           319322           384064           384847           386982           392901           397085           397086           397085</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>T<br/>G<br/>G<br/>G<br/>G<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78       78       78       78       36       42       38       54       42       39       44       51       50       54       39       46       46       55       63       54       54       55       69       51       63       63       36       54       51       63       63       63       63       63       63       63       63       63       63       63       63       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chr07<!--</td--><td>181041<br/>181041<br/>181041<br/>191312<br/>191387<br/>236216<br/>248160<br/>89735<br/>89610<br/>89735<br/>89751<br/>95082<br/>95084<br/>95447<br/>95082<br/>95084<br/>95447<br/>125909<br/>125910<br/>131262<br/>190796<br/>208781<br/>230256<br/>275965<br/>286729<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>299201<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>A<br/>A<br/>T<br/>T<br/>A<br/>A<br/>C<br/>C<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>G<br/>G<br/>G<br/>G<br/>G<br/>G<br/>G<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78       78       78       36       42       38       54       42       39       44       51       50       54       46       46       54       55       66       63       54       55       66       63       54       54       54       54       54       54       54       54       54       54       54       54       54       54       54       54       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       69       69       54       20  </td></td></tr> <tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07<!--</td--><td>181041           181041           181041           181041           191312           191387           236216           248160           8152           76881           89587           89610           89751           95082           95084           98172           125407           125909           125910           131262           190796           208781           230256           289625           289527           384063           384064           384846           384846           392896           392001           397085           397086           392901           397855</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78         78         78         78         36         42         38         54         42         39         44         51         50         54         46         46         46         55         63         54         54         55         63         64         69         51         63         36         54         55         66         63         36         54         51         63         36         54         51         63         66         63         63         66         63         63         66         63         63         78         52         69         69         54         38</td></td></tr> <tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07<!--</td--><td>181041           181041           181041           181041           191312           191388           192394           219387           236216           248160           84152           76881           89587           89610           89751           95084           951447           95447           95084           98172           125487           125910           131262           190796           208781           230256           275965           286729           289525           289525           289525           289525           289567           319332           384063           38446           384846           384846           397085           397086           397086           397086           397855           397668</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>T<br/>T<br/>C<br/>A<br/>C<br/>C<br/>-<br/>-<br/>C<br/>C<br/>-<br/>-<br/>A<br/>C<br/>C<br/>-<br/>-<br/>C<br/>C<br/>-<br/>-<br/>A<br/>T<br/>T<br/>A<br/>A<br/>C<br/>C<br/>-<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78         78         78         36         42         38         54         42         39         44         51         50         54         39         46         54         55         63         54         54         54         55         69         48         69         51         63         36         54         54         54         55         69         44         63         36         54         52         66         63         63         78         52         69         69         54         38         38          38    </td></td></tr>   
  | 181041           181041           181041           181041           191312           191388           192394           219387           236216           248160           8152           76881           8967           89751           95084           95147           95084           98172           125487           125909           125910           131262           190796           289525           289525           28967           319332           384063           384484           384846           384847           386982           392896           3928901           397085  | -<br>-<br>T<br>G<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C  | C<br>T<br>T<br>A<br>T<br>-<br>G<br>A<br>T<br>C<br>-<br>-<br>C<br>-<br>-<br>C<br>-<br>-<br>C<br>-<br>-<br>-<br>A<br>T<br>T<br>A<br>A<br>C<br>-<br>-<br>-<br>C<br>-<br>-<br>-<br>-<br>C<br>-<br>-<br>-<br>C<br>C<br>-<br>-<br>-<br>-           | 78         78         78         36         42         38         54         42         39         44         51         50         54         39         46         46         54         55         69         48         69         51         63         54         55         69         54         55         69         54         55         69         63         54         55         69         63         54         55         66         66         63         63         63         63         63         63         63         63         63         63         63         63         63         64 | chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07 </td <td>181041<br/>181041<br/>181041<br/>191312<br/>191387<br/>236216<br/>248160<br/>8152<br/>76881<br/>89587<br/>89610<br/>89735<br/>89751<br/>95082<br/>95084<br/>95447<br/>95448<br/>98172<br/>125487<br/>125909<br/>125910<br/>131262<br/>190796<br/>208781<br/>230256<br/>275965<br/>289525<br/>289525<br/>289567<br/>384064<br/>384847<br/>386981<br/>386982<br/>392896<br/>392901<br/>397085<br/>397085</td> <td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>C<br/>T<br/>T<br/>A<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>A<br/>A<br/>T<br/>T<br/>A<br/>A<br/>G<br/>G<br/>C<br/>C<br/>C<br/>G<br/>G<br/>G<br/>G<br/>G<br/>G<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>78       78       78       36       42       38       54       42       39       44       51       50       54       46       54       46       54       55       63       55       69       51       63       54       54       55       63       66       66       63       54       55       66       66       63       66       63       78       52       69       69</td>  
   
  | 181041<br>181041<br>181041<br>191312<br>191387<br>236216<br>248160<br>8152<br>76881<br>89587<br>89610<br>89735<br>89751<br>95082<br>95084<br>95447<br>95448<br>98172<br>125487<br>125909<br>125910<br>131262<br>190796<br>208781<br>230256<br>275965<br>289525<br>289525<br>289567<br>384064<br>384847<br>386981<br>386982<br>392896<br>392901<br>397085<br>397085  | -<br>-<br>T<br>G<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>C<br>C<br>C<br>A<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C | C<br>T<br>T<br>A<br>T<br>T<br>A<br>A<br>T<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>A<br>A<br>T<br>T<br>A<br>A<br>G<br>G<br>C<br>C<br>C<br>G<br>G<br>G<br>G<br>G<br>G<br>C<br>C<br>C<br>C<br>C<br>C<br>C                                    | 78       78       78       36       42       38       54       42       39       44       51       50       54       46       54       46       54       55       63       55       69       51       63       54       54       55       63       66       66       63       54       55       66       66       63       66       63       78       52       69       69  | chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07 </td <td>181041           181041           181041           181041           19132           19138           192394           219387           236216           248160           8152           76881           8967           89610           89735           89751           95084           95084           95447           125909           125910           131262           190796           208781           230256           286729           289525           28967           319322           384064           384847           386982           392901           397085           397086           397085</td> <td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>T<br/>G<br/>G<br/>G<br/>G<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>C<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>78       78       78       78       36       42       38       54       42       39       44       51       50       54       39       46       46       55       63       54       54       55       69       51       63       63       36       54       51       63       63       63       63       63       63       63       63       63       63       63       63       63       63       63       63       64       65       66       66       66       66       63       63       63       63       63       63       63       64       65       66       66       67       68       69       69   </td>  
   
  | 181041           181041           181041           181041           19132           19138           192394           219387           236216           248160           8152           76881           8967           89610           89735           89751           95084           95084           95447           125909           125910           131262           190796           208781           230256           286729           289525           28967           319322           384064           384847           386982           392901           397085           397086           397085 | -<br>-<br>T<br>G<br>C<br>C<br>A<br>C<br>C<br>A<br>T<br>G<br>G<br>G<br>G<br>C<br>C<br>A<br>-<br>C<br>C<br>A<br>-<br>C<br>C<br>A<br>-<br>C<br>C<br>A<br>-<br>C<br>C<br>A<br>-<br>C<br>C<br>C<br>A<br>-<br>C<br>C<br>C<br>C<br>C<br>A<br>-<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C | C<br>T<br>T<br>A<br>A<br>T<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C   | 78       78       78       78       36       42       38       54       42       39       44       51       50       54       39       46       46       55       63       54       54       55       69       51       63       63       36       54       51       63       63       63       63       63       63       63       63       63       63       63       63       63       63       63       63       64       65       66       66       66       66       63       63       63       63       63       63       63       64       65       66       66       67       68       69       69          | chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07 </td 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 63       66       63       66       69       69       54       20 | chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07 </td <td>181041           181041           181041           181041           191312           191387           236216           248160           8152           76881           89587           89610           89751           95082           95084           98172           125407           125909           125910           131262           190796           208781           230256           289625           289527           384063           384064           384846           384846           392896           392001           397085           397086           392901           397855</td> <td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>C<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>78         78         78         78         36         42         38         54         42         39         44         51         50         54         46         46         46         55         63         54         54         55         63         64         69         51  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-<br>-<br>T<br>G<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>C<br>A<br>C<br>C<br>C<br>A<br>C<br>C<br>C<br>A<br>C<br>C<br>C<br>C<br>C<br>A<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C | C<br>T<br>T<br>A<br>A<br>T<br>C<br>A<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C | 78         78         78         78         36         42         38         54         42         39         44         51         50         54         46         46         46         55         63         54         54         55         63         64         69         51         63         36         54         55         66         63         36         54         51         63         36         54    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  | -<br>-<br>T<br>G<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C                | C<br>T<br>T<br>A<br>T<br>T<br>C<br>A<br>C<br>C<br>-<br>-<br>C<br>C<br>-<br>-<br>A<br>C<br>C<br>-<br>-<br>C<br>C<br>-<br>-<br>A<br>T<br>T<br>A<br>A<br>C<br>C<br>-<br>-<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C | 78         78         78         36         42         38         54         42         39         44         51         50         54         39         46         54         55         63         54         54         54         55         69         48         69         51         63         36         54         54         54         55         69         44         63         36         54         52         66         63         63         78         52         69         69         54         38         38          38                                       |   |   |  |  |  |  |  
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| 181041           181041           181041           181041           191312           191387           236216           248160           8152           76881           89587           89610           89751           95084           95447           95448           98172           125487           125590           131262           190796           208781           230525           289525           289525           289567           384063           384484           384846           384847  
   
   
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| chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07 </td <td>181041<br/>181041<br/>181041<br/>191312<br/>191388<br/>192394<br/>219387<br/>236216<br/>248160<br/>8152<br/>76881<br/>89587<br/>89610<br/>89735<br/>89751<br/>95082<br/>95084<br/>95447<br/>95448<br/>98172<br/>125910<br/>131262<br/>125910<br/>131262<br/>208781<br/>230256<br/>275965<br/>288729<br/>289525<br/>289567<br/>319332<br/>384063<br/>384064<br/>384847<br/>386981</td> <td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>T<br/>G<br/>G<br/>G<br/>G<br/>G<br/>G<br/>G<br/>G<br/>G<br/>G<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>C<br/>T<br/>T<br/>A<br/>A<br/>T<br/>-<br/>G<br/>A<br/>T<br/>C<br/>-<br/>-<br/>C<br/>-<br/>-<br/>C<br/>-<br/>-<br/>A<br/>T<br/>T<br/>A<br/>A<br/>G<br/>C<br/>-<br/>-<br/>-<br/>A<br/>T<br/>T<br/>A<br/>A<br/>G<br/>C<br/>-<br/>-<br/>-<br/>-<br/>-<br/>C<br/>C<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-</td> <td>78       78       78       36       42       38       54       42       39       44       51       50       54       39       46       55       63       54       55       69       51       63       36       54       37       55       69       51       63       36       54       42       42       66       66       63</td>  
   
   
  | 181041<br>181041<br>181041<br>191312<br>191388<br>192394<br>219387<br>236216<br>248160<br>8152<br>76881<br>89587<br>89610<br>89735<br>89751<br>95082<br>95084<br>95447<br>95448<br>98172<br>125910<br>131262<br>125910<br>131262<br>208781<br>230256<br>275965<br>288729<br>289525<br>289567<br>319332<br>384063<br>384064<br>384847<br>386981   | -<br>-<br>T<br>G<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>T<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C  | C<br>T<br>T<br>A<br>A<br>T<br>-<br>G<br>A<br>T<br>C<br>-<br>-<br>C<br>-<br>-<br>C<br>-<br>-<br>A<br>T<br>T<br>A<br>A<br>G<br>C<br>-<br>-<br>-<br>A<br>T<br>T<br>A<br>A<br>G<br>C<br>-<br>-<br>-<br>-<br>-<br>C<br>C<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-  | 78       78       78       36       42       38       54       42       39       44       51       50       54       39       46       55       63       54       55       69       51       63       36       54       37       55       69       51       63   
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  | 181041<br>181041<br>181041<br>191312<br>191387<br>236216<br>248160<br>8152<br>76881<br>89587<br>89610<br>89735<br>89751<br>95082<br>95084<br>95447<br>95082<br>95084<br>95447<br>125407<br>125407<br>125407<br>125407<br>125407<br>125407<br>125407<br>125407<br>131262<br>190796<br>208781<br>230256<br>275965<br>286729<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289567<br>319332<br>384064<br>384846<br>384847<br>386981<br>386982  | -<br>-<br>T<br>G<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C   | C<br>T<br>T<br>A<br>T<br>T<br>C<br>C<br>-<br>C<br>C<br>-<br>C<br>C<br>-<br>C<br>C<br>-<br>A<br>T<br>T<br>A<br>A<br>C<br>C<br>-<br>C<br>C<br>-<br>C<br>C<br>C<br>C<br>C<br>C<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>C<br>C<br>C<br>C  | 78         78         78         36         42         38         54         42         39         44         51         50         54         39         46         54         55         63         54         54         54         55         69         48  
      69         51         63         36         54         54         54         54         54         54         54         54         55         69         48         69         51         63         36         54         42         66         63         63         63          66          63          63          64          65       |   
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  | 181041<br>181041<br>181041<br>191312<br>191388<br>192394<br>219387<br>236216<br>248160<br>8152<br>76881<br>89587<br>89610<br>89735<br>89751<br>95082<br>95084<br>95447<br>95448<br>98172<br>125487<br>125909<br>125910<br>131262<br>190796<br>208781<br>230256<br>275965<br>289525<br>289525<br>289567<br>319332<br>384063<br>384064<br>384846<br>386982<br>39286  | -<br>-<br>T<br>G<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>A<br>C<br>A<br>C<br>A<br>C<br>A<br>C<br>A<br>C<br>A<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>C<br>C<br>C<br>A<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C  | C<br>T<br>T<br>A<br>A<br>T<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C  | 78         78         78         36         42         38         54         42         39         46         54         56         57         63         54         55         69         54         55         69         51         63        
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td=""><td>181041<br/>181041<br/>181041<br/>191312<br/>191387<br/>236216<br/>248160<br/>8152<br/>76881<br/>89587<br/>89610<br/>89735<br/>89751<br/>95082<br/>95084<br/>95447<br/>95584<br/>95447<br/>95582<br/>95084<br/>95447<br/>125909<br/>125910<br/>131262<br/>190796<br/>208781<br/>230256<br/>275965<br/>286729<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289567<br/>319332<br/>384064<br/>384846<br/>384847<br/>386981<br/>386982</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>T<br/>T<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>A<br/>T<br/>T<br/>A<br/>A<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78       78       78       36       42       38       54       42       39       44       51       50       54       46       46       54       55       66       63       36       54       52       66       63       63       78       70</td></t<></tr> <tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07      <tr td=""> <t< td=""><td>181041           181041           181041           181041           191312           191387           236216           248160           8152           76881           89587           89610           89751           95082           95084           98172           125407           125909           125910           131262           190796           208781           230256           289627           384063           384064           384846           386981           386982           392896           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chr07<!--</td--><td>181041<br/>181041<br/>181041<br/>191312<br/>191387<br/>236216<br/>248160<br/>8152<br/>76881<br/>89587<br/>89610<br/>89735<br/>89751<br/>95082<br/>95084<br/>95447<br/>95448<br/>98172<br/>125487<br/>125909<br/>125910<br/>131262<br/>190796<br/>208781<br/>230256<br/>275965<br/>289525<br/>289525<br/>289567<br/>384064<br/>384847<br/>386981<br/>386982<br/>392896<br/>392901<br/>397085<br/>397085</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>A<br/>A<br/>T<br/>T<br/>A<br/>A<br/>G<br/>G<br/>C<br/>C<br/>C<br/>G<br/>G<br/>G<br/>G<br/>G<br/>G<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78       78       78       36       42       38       54       42       39       44       51       50       54       46       54       46       54       55       63       55       69       51       63       54       54       55       63       66       66       63       54       55       66       66       63       66       63       78       52       69       69</td></td></tr><tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07<!--</td--><td>181041           181041           181041           181041           19132           19138           192394           219387           236216           248160           8152           76881           8967           89610           89735           89751           95084           95084           95447           125909           125910           131262           190796           208781           230256           286729           289525           28967           319322           384064           384847           386982           392901           397085           397086           397085</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>T<br/>G<br/>G<br/>G<br/>G<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78       78       78       78       36       42       38       54       42       39       44       51       50       54       39       46       46       55       63       54       54       55       69       51       63       63       36       54       51       63       63       63       63       63       63       63       63       63       63       63       63       63       63       63       63       64       65       66       66       66       66       63       63       63       63       63       63       63       64       65       66       66       67       68       69       69   </td></td></tr><tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07          
chr07<!--</td--><td>181041<br/>181041<br/>181041<br/>191312<br/>191387<br/>236216<br/>248160<br/>89735<br/>89610<br/>89735<br/>89751<br/>95082<br/>95084<br/>95447<br/>95082<br/>95084<br/>95447<br/>125909<br/>125910<br/>131262<br/>190796<br/>208781<br/>230256<br/>275965<br/>286729<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>299201<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>A<br/>A<br/>T<br/>T<br/>A<br/>A<br/>C<br/>C<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>G<br/>G<br/>G<br/>G<br/>G<br/>G<br/>G<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78       78       78       36       42       38       54       42       39       44       51       50       54       46       46       54       55       66       63       54       55       66       63       54       54       54       54       54       54       54       54       54       54       54       54       54       54       54       54       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       69       69       54       20  </td></td></tr><tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07<!--</td--><td>181041           181041           181041           181041           191312           191387           236216           248160           8152           76881           89587           89610           89751           95082           95084           98172           125407           125909           125910           131262           190796           208781           230256           289625           289527           384063           384064           384846           384846           392896           392001           397085           397086           392901           397855</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78         78         78         78         36         42         38         54         42         39         44         51         50         54         46         46         46         55         63         54         54         55         63         64         69         51         63         36         54         55         66         63         36         54         51         63         36         54         51         63         66         63         63         66         63         63         66         63         63         78         52         69         69         54         38</td></td></tr><tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07<!--</td--><td>181041           181041           181041           181041           191312           191388           192394           219387           236216           248160           84152           76881           89587           89610           89751           95084           951447           95447           95084           98172           125487           125910           131262           190796           208781           230256           275965           286729           289525           289525           289525           289525           289567           319332           384063           38446           384846           384846           397085           397086           397086           397086           397855           397668</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>T<br/>T<br/>C<br/>A<br/>C<br/>C<br/>-<br/>-<br/>C<br/>C<br/>-<br/>-<br/>A<br/>C<br/>C<br/>-<br/>-<br/>C<br/>C<br/>-<br/>-<br/>A<br/>T<br/>T<br/>A<br/>A<br/>C<br/>C<br/>-<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78         78         78         36         42         38         54         42         39         44         51         50         54         39         46         54         55         63         54         54         54         55         69         48         69         51         63         36         54         54         54         55         69         44         63         36         54         52         66         63         63         78         52         69         69         54         38         38          38    </td></td></tr></td></tr></td></tr>   
   
  | 181041<br>181041<br>181041<br>191312<br>191387<br>236216<br>248160<br>8152<br>76881<br>89587<br>89610<br>89735<br>89751<br>95082<br>95084<br>95447<br>95584<br>95447<br>95582<br>95084<br>95447<br>125909<br>125910<br>131262<br>190796<br>208781<br>230256<br>275965<br>286729<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289567<br>319332<br>384064<br>384846<br>384847<br>386981<br>386982  | -<br>-<br>T<br>G<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C  | C<br>T<br>T<br>A<br>T<br>T<br>C<br>C<br>-<br>C<br>C<br>-<br>C<br>C<br>-<br>C<br>C<br>-<br>C<br>C<br>-<br>A<br>T<br>T<br>A<br>A<br>C<br>C<br>-<br>C<br>C<br>-<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C  | 78       78       78       36       42       38       54       42       39       44       51       50       54       46       46       54       55       66       63       36       54       52       66       63       63       78       70   | chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07 <tr td=""> <t< td=""><td>181041           181041           181041           181041           191312           191387           236216           248160           8152           76881           89587           89610           89751           95082           95084           98172           125407           125909           125910           131262           190796           208781           230256           289627           384063           384064           384846           386981           386982           392896           392001</td><td>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-</td><td>C<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78         78         78         36         42         38         54         42         39         44         51         50         54         39         46         54         55         63         55         69         48         69         51         63         36         54         54         55         63         66         63         66         63         66         63         66         63         78         52</td></t<></tr> <tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07      <tr td=""> <t< td=""><td>181041           181041           181041           181041           191312           191388           192394           219387           236216           248160           8152           76881           8967           89751           95084           95147           95084           98172           125487           125909           125910           131262           190796           289525           289525           28967           319332           384063           384484           384846           384847           386982           392896           3928901          
397085</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>T<br/>-<br/>G<br/>A<br/>T<br/>C<br/>-<br/>-<br/>C<br/>-<br/>-<br/>C<br/>-<br/>-<br/>C<br/>-<br/>-<br/>-<br/>A<br/>T<br/>T<br/>A<br/>A<br/>C<br/>-<br/>-<br/>-<br/>C<br/>-<br/>-<br/>-<br/>-<br/>C<br/>-<br/>-<br/>-<br/>C<br/>C<br/>-<br/>-<br/>-<br/>-</td><td>78         78         78         36         42         38         54         42         39         44         51         50         54         39         46         46         54         55         69         48         69         51         63         54         55         69         54         55         69         54         55         69         63         54         55         69         63         54         55         66         66         63         63         63         63         63         63         63         63         63         63         63         63         63         64</td></t<></tr><tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07<!--</td--><td>181041<br/>181041<br/>181041<br/>191312<br/>191387<br/>236216<br/>248160<br/>8152<br/>76881<br/>89587<br/>89610<br/>89735<br/>89751<br/>95082<br/>95084<br/>95447<br/>95448<br/>98172<br/>125487<br/>125909<br/>125910<br/>131262<br/>190796<br/>208781<br/>230256<br/>275965<br/>289525<br/>289525<br/>289567<br/>384064<br/>384847<br/>386981<br/>386982<br/>392896<br/>392901<br/>397085<br/>397085</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>A<br/>A<br/>T<br/>T<br/>A<br/>A<br/>G<br/>G<br/>C<br/>C<br/>C<br/>G<br/>G<br/>G<br/>G<br/>G<br/>G<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78       78       78       36       42       38       54       42       39       44       51       50       54       46       54       46       54       55       63       55       69       51       63       54       54       55       63       66       66       63       54       55       66       66       63       66       63       78       52       69       69</td></td></tr><tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07<!--</td--><td>181041           181041           181041           181041           19132           19138           192394           219387           236216           248160           8152           76881           8967           89610           89735           89751           95084           95084           95447           125909           125910           131262           190796           208781           230256           286729           289525           28967           319322           384064           384847           386982           392901           397085           397086           397085</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>T<br/>G<br/>G<br/>G<br/>G<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78       78       78       78       36       42       38       54       42       39       44       51       50       54       39       46       46       55       63       54       54       55       69       51       63       63       36       54       51       63       63       63       63       63       63       63       63       63       63       63       63       63       63       63       63       64       65       66       66       66       66       63       63       63       63       63       63       63       64       65       66       66       67       68       69       69   </td></td></tr><tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07<!--</td--><td>181041<br/>181041<br/>181041<br/>191312<br/>191387<br/>236216<br/>248160<br/>89735<br/>89610<br/>89735<br/>89751<br/>95082<br/>95084<br/>95447<br/>95082<br/>95084<br/>95447<br/>125909<br/>125910<br/>131262<br/>190796<br/>208781<br/>230256<br/>275965<br/>286729<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>299201<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>A<br/>A<br/>T<br/>T<br/>A<br/>A<br/>C<br/>C<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>G<br/>G<br/>G<br/>G<br/>G<br/>G<br/>G<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78       78       78       36       42       38       54       42       39       44       51       50       54       46       46       54       55       66       63       54       55       66       63       54       54       54       54       54       54       54       54       54       54       54       54       54       54       54       54       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       69       69       54       20  </td></td></tr><tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07<!--</td--><td>181041           181041           181041           181041           191312           191387           236216           248160           8152           76881           89587           89610           89751           95082           95084           98172           125407           125909           125910           131262           190796           208781           230256           289625           289527           384063           384064           384846           384846           392896           392001           397085           397086           392901          
397855</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78         78         78         78         36         42         38         54         42         39         44         51         50         54         46         46         46         55         63         54         54         55         63         64         69         51         63         36         54         55         66         63         36         54         51         63         36         54         51         63         66         63         63         66         63         63         66         63         63         78         52         69         69         54         38</td></td></tr><tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07<!--</td--><td>181041           181041           181041           181041           191312           191388           192394           219387           236216           248160           84152           76881           89587           89610           89751           95084           951447           95447           95084           98172           125487           125910           131262           190796           208781           230256           275965           286729           289525           289525           289525           289525           289567           319332           384063           38446           384846           384846           397085           397086           397086           397086           397855           397668</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>T<br/>T<br/>C<br/>A<br/>C<br/>C<br/>-<br/>-<br/>C<br/>C<br/>-<br/>-<br/>A<br/>C<br/>C<br/>-<br/>-<br/>C<br/>C<br/>-<br/>-<br/>A<br/>T<br/>T<br/>A<br/>A<br/>C<br/>C<br/>-<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78         78         78         36         42         38         54         42         39         44         51         50         54         39         46         54         55         63         54         54         54         55         69         48         69         51         63         36         54         54         54         55         69         44         63         36         54         52         66         63         63         78         52         69         69         54         38         38          38    </td></td></tr></td></tr> | 181041           181041           181041           181041           191312           191387           236216           248160           8152           76881           89587           89610           89751           95082           95084           98172           125407           125909           125910           131262           190796           208781           230256           289627           384063           384064           384846           386981           386982           392896           392001  | -<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-  | C<br>T<br>T<br>A<br>A<br>T<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C   | 78         78         78         36         42         38         54         42         39         44         51         50         54         39         46         54         55         63         55         69         48         69         51         63         36         54         54         55         63         66         63         66         63         66         63         66         63         78         52   | chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07 <tr td=""> <t< td=""><td>181041           181041           181041           181041           191312           191388           192394           219387           236216           248160           8152           76881           8967           89751           95084           95147           95084           98172           125487           125909           125910           131262           190796           289525           289525           28967           319332           384063           384484           384846           384847           386982           392896           3928901           397085</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>T<br/>-<br/>G<br/>A<br/>T<br/>C<br/>-<br/>-<br/>C<br/>-<br/>-<br/>C<br/>-<br/>-<br/>C<br/>-<br/>-<br/>-<br/>A<br/>T<br/>T<br/>A<br/>A<br/>C<br/>-<br/>-<br/>-<br/>C<br/>-<br/>-<br/>-<br/>-<br/>C<br/>-<br/>-<br/>-<br/>C<br/>C<br/>-<br/>-<br/>-<br/>-</td><td>78         78         78         36         42         38         54         42         39         44         51         50         54         39         46         46         54         55         69         48         69         51         63         54         55         69         54         55         69         54         55         69         63         54         55         69         63         54         55         66         66         63         63         63         63         63         63         63         63         63         63         63         63         63         64</td></t<></tr> <tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07<!--</td--><td>181041<br/>181041<br/>181041<br/>191312<br/>191387<br/>236216<br/>248160<br/>8152<br/>76881<br/>89587<br/>89610<br/>89735<br/>89751<br/>95082<br/>95084<br/>95447<br/>95448<br/>98172<br/>125487<br/>125909<br/>125910<br/>131262<br/>190796<br/>208781<br/>230256<br/>275965<br/>289525<br/>289525<br/>289567<br/>384064<br/>384847<br/>386981<br/>386982<br/>392896<br/>392901<br/>397085<br/>397085</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>A<br/>A<br/>T<br/>T<br/>A<br/>A<br/>G<br/>G<br/>C<br/>C<br/>C<br/>G<br/>G<br/>G<br/>G<br/>G<br/>G<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78       78       78       36       42       38       54       42       39       44       51       50       54       46       54       46       54       55       63       55       69       51       63       54       54       55       63       66       66       63       54       55       66       66       63       66       63       78       52       69       69</td></td></tr> <tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07<!--</td--><td>181041           181041           181041           181041           19132           19138           192394           219387           236216           248160           8152           76881           8967           89610           89735           89751           95084           95084           95447           125909           125910           131262           190796           208781           230256           286729           289525           28967           319322           384064           384847           386982           392901           397085           397086           397085</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>T<br/>G<br/>G<br/>G<br/>G<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78       78       78       78       36       42       38       54       42       39       44       51       50       54  
    39       46       46       55       63       54       54       55       69       51       63       63       36       54       51       63       63       63       63       63       63       63       63       63       63       63       63       63       63       63       63       64       65       66       66       66       66       63       63       63       63       63       63       63       64       65       66       66       67       68       69       69   </td></td></tr> <tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07<!--</td--><td>181041<br/>181041<br/>181041<br/>191312<br/>191387<br/>236216<br/>248160<br/>89735<br/>89610<br/>89735<br/>89751<br/>95082<br/>95084<br/>95447<br/>95082<br/>95084<br/>95447<br/>125909<br/>125910<br/>131262<br/>190796<br/>208781<br/>230256<br/>275965<br/>286729<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>299201<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>A<br/>A<br/>T<br/>T<br/>A<br/>A<br/>C<br/>C<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>G<br/>G<br/>G<br/>G<br/>G<br/>G<br/>G<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78       78       78       36       42       38       54       42       39       44       51       50       54       46       46       54       55       66       63       54       55       66       63       54       54       54       54       54       54       54       54       54       54       54       54       54       54       54       54       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       69       69       54       20  </td></td></tr> <tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07<!--</td--><td>181041           181041           181041           181041           191312           191387           236216           248160           8152           76881           89587           89610           89751           95082           95084           98172           125407           125909           125910           131262           190796           208781           230256           289625           289527           384063           384064           384846           384846           392896           392001           397085           397086           392901           397855</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78         78         78         78         36         42         38         54         42         39         44         51         50         54         46         46         46         55         63         54         54         55         63         64         69         51         63         36         54         55         66         63         36         54         51         63         36         54         51         63         66         63         63         66         63         63         66         63         63         78         52         69         69         54         38</td></td></tr> <tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07<!--</td--><td>181041           181041           181041           181041           191312           191388           192394           219387           236216           248160           84152           76881           89587           89610           89751           95084           951447           95447           95084           98172           125487           125910           131262           190796           208781           230256           275965           286729           289525           289525           289525           289525           289567           319332           384063           38446           384846           384846           397085           397086           397086           397086           397855           397668</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>T<br/>T<br/>C<br/>A<br/>C<br/>C<br/>-<br/>-<br/>C<br/>C<br/>-<br/>-<br/>A<br/>C<br/>C<br/>-<br/>-<br/>C<br/>C<br/>-<br/>-<br/>A<br/>T<br/>T<br/>A<br/>A<br/>C<br/>C<br/>-<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78         78         78         36         42         38         54         42         39         44         51         50         54         39         46         54         55         63         54         54         54         55         69         48         69         51         63         36         54         54         54         55         69         44         63         36         54         52         66         63         63         78         52         69         69         54         38         38          38    </td></td></tr>   
   
  | 181041           181041           181041           181041           191312           191388           192394           219387           236216           248160           8152           76881           8967           89751           95084           95147           95084           98172           125487           125909           125910           131262           190796           289525           289525           28967           319332           384063           384484           384846           384847           386982           392896           3928901           397085              | -<br>-<br>T<br>G<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C  | C<br>T<br>T<br>A<br>T<br>-<br>G<br>A<br>T<br>C<br>-<br>-<br>C<br>-<br>-<br>C<br>-<br>-<br>C<br>-<br>-<br>-<br>A<br>T<br>T<br>A<br>A<br>C<br>-<br>-<br>-<br>C<br>-<br>-<br>-<br>-<br>C<br>-<br>-<br>-<br>C<br>C<br>-<br>-<br>-<br>-           | 78         78         78         36         42         38         54         42         39         44         51         50         54         39         46         46         54         55         69         48         69         51         63         54         55         69         54         55         69         54         55         69         63         54         55         69         63         54         55         66         66         63         63         63         63         63         63         63         63         63         63         63         63         63         64 | chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07 </td <td>181041<br/>181041<br/>181041<br/>191312<br/>191387<br/>236216<br/>248160<br/>8152<br/>76881<br/>89587<br/>89610<br/>89735<br/>89751<br/>95082<br/>95084<br/>95447<br/>95448<br/>98172<br/>125487<br/>125909<br/>125910<br/>131262<br/>190796<br/>208781<br/>230256<br/>275965<br/>289525<br/>289525<br/>289567<br/>384064<br/>384847<br/>386981<br/>386982<br/>392896<br/>392901<br/>397085<br/>397085</td> <td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>C<br/>T<br/>T<br/>A<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>A<br/>A<br/>T<br/>T<br/>A<br/>A<br/>G<br/>G<br/>C<br/>C<br/>C<br/>G<br/>G<br/>G<br/>G<br/>G<br/>G<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>78       78       78       36       42       38       54       42       39       44       51       50       54       46       54       46       54       55       63       55       69       51       63       54       54       55       63       66       66       63       54       55       66       66       63       66       63       78       52       69       69</td>  | 181041<br>181041<br>181041<br>191312<br>191387<br>236216<br>248160<br>8152<br>76881<br>89587<br>89610<br>89735<br>89751<br>95082<br>95084<br>95447<br>95448<br>98172<br>125487<br>125909<br>125910<br>131262<br>190796<br>208781<br>230256<br>275965<br>289525<br>289525<br>289567<br>384064<br>384847<br>386981<br>386982<br>392896<br>392901<br>397085<br>397085  
  | -<br>-<br>T<br>G<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>C<br>C<br>C<br>A<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C                          | C<br>T<br>T<br>A<br>T<br>T<br>A<br>A<br>T<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>A<br>A<br>T<br>T<br>A<br>A<br>G<br>G<br>C<br>C<br>C<br>G<br>G<br>G<br>G<br>G<br>G<br>C<br>C<br>C<br>C<br>C<br>C<br>C  | 78       78       78       36       42       38       54       42       39       44       51       50       54       46       54       46       54       55       63       55       69       51       63       54       54       55       63       66       66       63       54       55       66       66       63       66       63       78       52       69       69   | chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07 </td <td>181041           181041           181041           181041           19132           19138           192394           219387           236216           248160           8152           76881           8967           89610           89735           89751           95084           95084           95447           125909           125910           131262           190796           208781           230256           286729           289525           28967           319322           384064           384847           386982           392901           397085           397086           397085</td> <td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>T<br/>G<br/>G<br/>G<br/>G<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>C<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>78       78       78       78       36       42       38       54       42       39       44       51       50       54       39       46       46       55       63       54       54       55       69       51       63       63       36       54       51       63       63       63       63       63       63       63       63       63       63       63       63       63       63       63       63       64       65       66       66       66       66       63       63       63       63       63       63       63       64       65       66       66       67       68       69       69   </td>  
   
   | 181041           181041           181041           181041           19132           19138           192394           219387           236216           248160           8152           76881           8967           89610           89735           89751           95084           95084           95447           125909           125910           131262           190796           208781           230256           286729           289525           28967           319322           384064           384847           386982           392901           397085           397086           397085  | -<br>-<br>T<br>G<br>C<br>C<br>A<br>C<br>C<br>A<br>T<br>G<br>G<br>G<br>G<br>C<br>C<br>A<br>-<br>C<br>C<br>A<br>-<br>C<br>C<br>A<br>-<br>C<br>C<br>A<br>-<br>C<br>C<br>A<br>-<br>C<br>C<br>C<br>A<br>-<br>C<br>C<br>C<br>C<br>C<br>A<br>-<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C   | C<br>T<br>T<br>A<br>A<br>T<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C   | 78       78       78       78       36       42       38       54       42       39       44       51       50       54       39       46       46       55       63       54       54       55       69       51       63       63       36       54       51       63       63       63       63       63       63       63       63       63       63       63       63       63       63       63       63       64       65       66       66       66       66       63       63       63       63       63       63       63       64       65       66       66       67       68       69       69          | chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07 </td <td>181041<br/>181041<br/>181041<br/>191312<br/>191387<br/>236216<br/>248160<br/>89735<br/>89610<br/>89735<br/>89751<br/>95082<br/>95084<br/>95447<br/>95082<br/>95084<br/>95447<br/>125909<br/>125910<br/>131262<br/>190796<br/>208781<br/>230256<br/>275965<br/>286729<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>299201<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085</td> 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63       54       54       54       54       54       54       54       54       54       54       54       54       54       54       54       54       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       69       69       54       20  </td>   
  | 181041<br>181041<br>181041<br>191312<br>191387<br>236216<br>248160<br>89735<br>89610<br>89735<br>89751<br>95082<br>95084<br>95447<br>95082<br>95084<br>95447<br>125909<br>125910<br>131262<br>190796<br>208781<br>230256<br>275965<br>286729<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>299201<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085 | -<br>-<br>T<br>G<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C   | C<br>T<br>T<br>A<br>T<br>T<br>A<br>A<br>T<br>C<br>C<br>-<br>C<br>C<br>-<br>C<br>C<br>-<br>A<br>A<br>T<br>T<br>A<br>A<br>C<br>C<br>-<br>C<br>C<br>C<br>C<br>C<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>C<br>C<br>C<br>C<br>C                     | 78       78       78       36       42       38       54       42       39       44       51       50       54       46       46       54       55       66       63       54       55       66       63       54       54       54       54       54       54       54       54       54       54       54       54       54       54       54       54       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       69       69       54       20                            | chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07 </td <td>181041           181041           181041           181041           191312           191387           236216           248160           8152           76881           89587           89610           89751           95082           95084           98172           125407           125909           125910           131262           190796           208781           230256           289625           289527           384063           384064           384846           384846           392896           392001           397085           397086           392901           397855</td>
<td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>C<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>78         78         78         78         36         42         38         54         42         39         44         51         50         54         46         46         46         55         63         54         54         55         63         64         69         51         63         36         54         55         66         63         36         54         51         63         36         54         51         63         66         63         63         66         63         63         66         63         63         78         52         69         69         54         38</td>  
   
   | 181041           181041           181041           181041           191312           191387           236216           248160           8152           76881           89587           89610           89751           95082           95084           98172           125407           125909           125910           131262           190796           208781           230256           289625           289527           384063           384064           384846           384846           392896           392001           397085           397086           392901           397855   | -<br>-<br>T<br>G<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>C<br>A<br>C<br>C<br>C<br>A<br>C<br>C<br>C<br>A<br>C<br>C<br>C<br>C<br>C<br>A<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C | C<br>T<br>T<br>A<br>A<br>T<br>C<br>A<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C   | 78         78         78         78         36         42         38         54         42         39         44         51         50         54         46         46         46         55         63         54         54         55         63         64         69         51         63         36         54         55         66         63         36         54         51         63         36         54         51         63         66         63         63         66         63         63         66         63         63         78         52         69         69         54         38 | chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07 </td <td>181041           181041           181041           181041           191312           191388           192394           219387           236216           248160           84152           76881           89587           89610           89751           95084           951447           95447           95084           98172           125487           125910           131262           190796           208781           230256           275965           286729           289525           289525           289525           289525           289567           319332           384063           38446           384846           384846           397085           397086           397086           397086           397855           397668</td> <td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>C<br/>T<br/>T<br/>A<br/>T<br/>T<br/>C<br/>A<br/>C<br/>C<br/>-<br/>-<br/>C<br/>C<br/>-<br/>-<br/>A<br/>C<br/>C<br/>-<br/>-<br/>C<br/>C<br/>-<br/>-<br/>A<br/>T<br/>T<br/>A<br/>A<br/>C<br/>C<br/>-<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>78         78         78         36         42         38         54         42         39         44         51         50         54         39         46         54         55         63         54         54         54         55         69         48         69         51         63         36         54         54         54         55         69         44         63         36         54         52         66         63         63         78         52         69         69         54         38         38          38    </td>   
   
   | 181041           181041           181041           181041           191312           191388           192394           219387           236216           248160           84152           76881           89587           89610           89751           95084           951447           95447           95084           98172           125487           125910           131262           190796           208781           230256           275965           286729           289525           289525           289525           289525           289567           319332           384063           38446           384846           384846           397085           397086           397086           397086           397855           397668 | -<br>-<br>T<br>G<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C  | C<br>T<br>T<br>A<br>T<br>T<br>C<br>A<br>C<br>C<br>-<br>-<br>C<br>C<br>-<br>-<br>A<br>C<br>C<br>-<br>-<br>C<br>C<br>-<br>-<br>A<br>T<br>T<br>A<br>A<br>C<br>C<br>-<br>-<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C | 78         78         78         36         42         38         54         42         39         44         51         50         54         39         46         54         55         63         54         54         54         55         69         48         69         51         63         36         54         54         54         55         69         44         63         36         54         52         66         63         63         78         52         69         69         54         38         38          38 |   
   
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| 181041<br>181041<br>181041<br>191312<br>191387<br>236216<br>248160<br>8152<br>76881<br>89587<br>89610<br>89735<br>89751<br>95082<br>95084<br>95447<br>95584<br>95447<br>95582<br>95084<br>95447<br>125909<br>125910<br>131262<br>190796<br>208781<br>230256<br>275965<br>286729<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289567<br>319332<br>384064<br>384846<br>384847<br>386981<br>386982  
   
   
  | -<br>-<br>T<br>G<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C  | C<br>T<br>T<br>A<br>T<br>T<br>C<br>C<br>-<br>C<br>C<br>-<br>C<br>C<br>-<br>C<br>C<br>-<br>C<br>C<br>-<br>A<br>T<br>T<br>A<br>A<br>C<br>C<br>-<br>C<br>C<br>-<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C   | 78       78       78       36       42       38       54       42       39       44       51       50       54       46       46       54       55       66       63       36       54       52       66       63       63       78       70   
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| chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07 <tr td=""> <t< td=""><td>181041           181041           181041           181041           191312           191387           236216           248160           8152           76881           89587           89610           89751           95082           95084           98172           125407           125909           125910           131262           190796           208781           230256           289627           384063           384064           384846           386981           386982           392896           392001</td><td>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-</td><td>C<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78         78         78         36         42         38         54         42         39         44         51         50         54         39         46         54         55         63         55         69         48         69         51         63         36         54         54         55         63         66         63         66         63         66         63         66         63         78         52</td></t<></tr> <tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07      <tr td=""> <t< td=""><td>181041           181041           181041           181041           191312           191388           192394           219387           236216           248160           8152           76881           8967           89751           95084           95147           95084           98172           125487           125909           125910           131262           190796           289525           289525           28967           319332           384063           384484           384846           384847           386982           392896           3928901           397085</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>T<br/>-<br/>G<br/>A<br/>T<br/>C<br/>-<br/>-<br/>C<br/>-<br/>-<br/>C<br/>-<br/>-<br/>C<br/>-<br/>-<br/>-<br/>A<br/>T<br/>T<br/>A<br/>A<br/>C<br/>-<br/>-<br/>-<br/>C<br/>-<br/>-<br/>-<br/>-<br/>C<br/>-<br/>-<br/>-<br/>C<br/>C<br/>-<br/>-<br/>-<br/>-</td><td>78         78         78         36         42         38         54         42         39         44         51         50         54         39         46         46         54         55         69         48         69         51         63         54         55         69         54         55         69         54         55         69         63         54         55         69         63         54         55         66         66         63         63         63         63         63         63         63         63         63         63         63         63         63         64</td></t<></tr><tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           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      78       78       36       42       38       54       42       39       44       51       50       54       46       54       46       54       55       63       55       69       51       63       54       54       55       63       66       66       63       54       55       66       66       63       66       63       78       52       69       69</td></td></tr><tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07<!--</td--><td>181041           181041           181041           181041           19132           19138           192394           219387           236216           248160           8152           76881           8967           89610           89735           89751           95084           95084           95447           125909           125910           131262           190796           208781           230256           286729           289525           28967           319322           384064           384847           386982           392901           397085           397086           397085</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>T<br/>G<br/>G<br/>G<br/>G<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78       78       78       78       36       42       38       54       42       39       44       51       50       54       39       46       46       55       63       54       54       55       69       51       63       63       36       54       51       63       63       63       63       63       63       63       63       63       63       63       63       63 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      78       78       36       42       38       54       42       39       44       51       50       54       46       46       54       55       66       63       54       55       66       63       54       54       54       54       54       54       54       54       54       54       54       54       54       54       54       54       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       69       69       54       20  </td></td></tr><tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07<!--</td--><td>181041           181041           181041           181041           191312           191387           236216           248160           8152           76881           89587           89610           89751           95082          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397855</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78         78         78         78         36         42         38         54         42         39         44         51         50         54         46         46         46         55         63         54         54         55         63         64         69    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289525           289525           289525           289567           319332           384063           38446           384846           384846           397085           397086           397086           397086           397855           397668</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>T<br/>T<br/>C<br/>A<br/>C<br/>C<br/>-<br/>-<br/>C<br/>C<br/>-<br/>-<br/>A<br/>C<br/>C<br/>-<br/>-<br/>C<br/>C<br/>-<br/>-<br/>A<br/>T<br/>T<br/>A<br/>A<br/>C<br/>C<br/>-<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78         78         78         36         42         38         54         42         39         44         51         50         54         39         46         54         55         63         54         54         54         55         69         48         69         51         63         36         54         54         54         55         69         44         63         36         54         52         66         63         63         78         52         69         69         54         38         38          38    </td></td></tr></td></tr>   
   
  | 181041           181041           181041           181041           191312           191387           236216           248160           8152           76881           89587           89610           89751           95082           95084           98172           125407           125909           125910           131262           190796           208781           230256           289627           384063           384064           384846           386981           386982           392896           392001  | -<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-  | C<br>T<br>T<br>A<br>A<br>T<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C  | 78         78         78         36         42         38         54         42         39         44         51         50         54         39         46         54         55         63         55         69         48         69         51         63         36         54         54         55         63         66         63         66         63         66         63         66         63         78         52   | chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07 <tr td=""> <t< td=""><td>181041           181041          
181041           181041           191312           191388           192394           219387           236216           248160           8152           76881           8967           89751           95084           95147           95084           98172           125487           125909           125910           131262           190796           289525           289525           28967           319332           384063           384484           384846           384847           386982           392896           3928901           397085</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>T<br/>-<br/>G<br/>A<br/>T<br/>C<br/>-<br/>-<br/>C<br/>-<br/>-<br/>C<br/>-<br/>-<br/>C<br/>-<br/>-<br/>-<br/>A<br/>T<br/>T<br/>A<br/>A<br/>C<br/>-<br/>-<br/>-<br/>C<br/>-<br/>-<br/>-<br/>-<br/>C<br/>-<br/>-<br/>-<br/>C<br/>C<br/>-<br/>-<br/>-<br/>-</td><td>78         78         78         36         42         38         54         42         39         44         51         50         54         39         46         46         54         55         69         48         69         51         63         54         55         69         54         55         69         54         55         69         63         54         55         69         63         54         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chr07<!--</td--><td>181041<br/>181041<br/>181041<br/>191312<br/>191387<br/>236216<br/>248160<br/>8152<br/>76881<br/>89587<br/>89610<br/>89735<br/>89751<br/>95082<br/>95084<br/>95447<br/>95448<br/>98172<br/>125487<br/>125909<br/>125910<br/>131262<br/>190796<br/>208781<br/>230256<br/>275965<br/>289525<br/>289525<br/>289567<br/>384064<br/>384847<br/>386981<br/>386982<br/>392896<br/>392901<br/>397085<br/>397085</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>A<br/>A<br/>T<br/>T<br/>A<br/>A<br/>G<br/>G<br/>C<br/>C<br/>C<br/>G<br/>G<br/>G<br/>G<br/>G<br/>G<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78       78       78       36       42       38       54       42       39       44       51       50       54       46       54       46       54       55       63       55       69       51       63       54       54       55       63       66       66       63       54       55       66       66       63       66       63       78       52       69       69</td></td></tr> <tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07<!--</td--><td>181041           181041           181041           181041           19132           19138           192394           219387           236216           248160           8152           76881           8967           89610           89735           89751           95084           95084           95447           125909           125910           131262           190796           208781           230256           286729           289525           28967           319322           384064           384847           386982           392901           397085           397086           397085</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>T<br/>G<br/>G<br/>G<br/>G<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78       78       78       78       36       42       38       54       42       39       44       51       50       54       39       46       46       55       63       54       54       55       69       51       63       63       36       54       51       63       63       63       63       63       63       63       63       63       63       63       63       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chr07<!--</td--><td>181041<br/>181041<br/>181041<br/>191312<br/>191387<br/>236216<br/>248160<br/>89735<br/>89610<br/>89735<br/>89751<br/>95082<br/>95084<br/>95447<br/>95082<br/>95084<br/>95447<br/>125909<br/>125910<br/>131262<br/>190796<br/>208781<br/>230256<br/>275965<br/>286729<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>299201<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>A<br/>A<br/>T<br/>T<br/>A<br/>A<br/>C<br/>C<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>G<br/>G<br/>G<br/>G<br/>G<br/>G<br/>G<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78       78       78       36       42       38       54       42       39       44       51       50       54       46       46       54       55       66       63       54       55       66       63       54       54       54       54       54       54       54       54       54       54       54       54       54       54       54       54       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       69       69       54       20  </td></td></tr> <tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07<!--</td--><td>181041           181041           181041           181041           191312           191387           236216           248160           8152           76881           89587           89610           89751           95082           95084           98172           125407           125909           125910           131262           190796           208781           230256           289625           289527           384063           384064           384846           384846           392896         
 392001           397085           397086           392901           397855</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78         78         78         78         36         42         38         54         42         39         44         51         50         54         46         46         46         55         63         54         54         55         63         64         69         51         63         36         54         55         66         63         36         54         51         63         36         54         51         63         66         63         63         66         63         63         66         63         63         78         52         69         69         54         38</td></td></tr> <tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07<!--</td--><td>181041           181041           181041           181041           191312           191388           192394           219387           236216           248160           84152           76881           89587           89610           89751           95084           951447           95447           95084           98172           125487           125910           131262           190796           208781           230256           275965           286729           289525           289525           289525           289525           289567           319332           384063           38446           384846           384846           397085           397086           397086           397086           397855           397668</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>T<br/>T<br/>C<br/>A<br/>C<br/>C<br/>-<br/>-<br/>C<br/>C<br/>-<br/>-<br/>A<br/>C<br/>C<br/>-<br/>-<br/>C<br/>C<br/>-<br/>-<br/>A<br/>T<br/>T<br/>A<br/>A<br/>C<br/>C<br/>-<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78         78         78         36         42         38         54         42         39         44         51         50         54         39         46         54         55         63         54         54         54         55         69         48         69         51         63         36         54         54         54         55         69         44         63         36         54         52         66         63         63         78         52         69         69         54         38         38          38    </td></td></tr>  | 181041           181041           181041           181041           191312           191388           192394           219387           236216           248160           8152           76881           8967           89751           95084           95147           95084           98172           125487           125909           125910           131262           190796           289525           289525           28967           319332           384063           384484           384846           384847           386982           392896           3928901           397085 | -<br>-<br>T<br>G<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C  | C<br>T<br>T<br>A<br>T<br>-<br>G<br>A<br>T<br>C<br>-<br>-<br>C<br>-<br>-<br>C<br>-<br>-<br>C<br>-<br>-<br>-<br>A<br>T<br>T<br>A<br>A<br>C<br>-<br>-<br>-<br>C<br>-<br>-<br>-<br>-<br>C<br>-<br>-<br>-<br>C<br>C<br>-<br>-<br>-<br>-   | 78         78         78         36         42         38         54         42         39         44         51         50         54         39         46         46         54         55         69         48         69         51         63         54         55         69         54         55         69         54         55         69         63         54         55         69         63         54         55         66         66         63         63         63         63         63         63         63         63         63         63         63         63         63         64 | chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07 </td <td>181041<br/>181041<br/>181041<br/>191312<br/>191387<br/>236216<br/>248160<br/>8152<br/>76881<br/>89587<br/>89610<br/>89735<br/>89751<br/>95082<br/>95084<br/>95447<br/>95448<br/>98172<br/>125487<br/>125909<br/>125910<br/>131262<br/>190796<br/>208781<br/>230256<br/>275965<br/>289525<br/>289525<br/>289567<br/>384064<br/>384847<br/>386981<br/>386982<br/>392896<br/>392901<br/>397085<br/>397085</td> <td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>C<br/>T<br/>T<br/>A<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>A<br/>A<br/>T<br/>T<br/>A<br/>A<br/>G<br/>G<br/>C<br/>C<br/>C<br/>G<br/>G<br/>G<br/>G<br/>G<br/>G<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>78       78       78       36       42       38       54       42       39       44       51       50       54       46       54       46       54       55       63       55       69       51       63       54       54       55       63       66       66       63       54       55       66       66       63       66       63       78       52       69       69</td>   
   
   
   | 181041<br>181041<br>181041<br>191312<br>191387<br>236216<br>248160<br>8152<br>76881<br>89587<br>89610<br>89735<br>89751<br>95082<br>95084<br>95447<br>95448<br>98172<br>125487<br>125909<br>125910<br>131262<br>190796<br>208781<br>230256<br>275965<br>289525<br>289525<br>289567<br>384064<br>384847<br>386981<br>386982<br>392896<br>392901<br>397085<br>397085  | -<br>-<br>T<br>G<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>C<br>C<br>C<br>A<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C                     | C<br>T<br>T<br>A<br>T<br>T<br>A<br>A<br>T<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>A<br>A<br>T<br>T<br>A<br>A<br>G<br>G<br>C<br>C<br>C<br>G<br>G<br>G<br>G<br>G<br>G<br>C<br>C<br>C<br>C<br>C<br>C<br>C                                    | 78       78       78       36       42       38       54       42       39       44       51       50       54       46       54       46       54       55       63       55       69       51       63       54       54       55       63       66       66       63       54       55       66       66       63       66       63       78       52       69       69   | chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07 </td <td>181041           181041           181041           181041           19132           19138           192394           219387           236216           248160           8152           76881           8967           89610           89735           89751           95084           95084           95447           125909           125910           131262           190796           208781           230256           286729           289525           28967           319322           384064           384847           386982           392901           397085           397086           397085</td> <td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>T<br/>G<br/>G<br/>G<br/>G<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>C<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>78       78    
  78       78       36       42       38       54       42       39       44       51       50       54       39       46       46       55       63       54       54       55       69       51       63       63       36       54       51       63       63       63       63       63       63       63       63       63       63       63       63       63       63       63       63       64       65       66       66       66       66       63       63       63       63       63       63       63       64       65       66       66       67       68       69       69   </td>   | 181041           181041           181041           181041           19132           19138           192394           219387           236216           248160           8152           76881           8967           89610           89735           89751           95084           95084           95447           125909           125910           131262           190796           208781           230256           286729           289525           28967           319322           384064           384847           386982           392901           397085           397086           397085  | -<br>-<br>T<br>G<br>C<br>C<br>A<br>C<br>C<br>A<br>T<br>G<br>G<br>G<br>G<br>C<br>C<br>A<br>-<br>C<br>C<br>A<br>-<br>C<br>C<br>A<br>-<br>C<br>C<br>A<br>-<br>C<br>C<br>A<br>-<br>C<br>C<br>C<br>A<br>-<br>C<br>C<br>C<br>C<br>C<br>A<br>-<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C      | C<br>T<br>T<br>A<br>A<br>T<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C   | 78       78       78       78       36       42       38       54       42       39       44       51       50       54       39       46       46       55       63       54       54       55       69       51       63       63       36       54       51       63       63       63       63       63       63       63       63       63       63       63       63       63       63       63       63       64       65       66       66       66       66       63       63       63       63       63       63       63       64       65       66       66       67       68       69       69    | chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07 </td <td>181041<br/>181041<br/>181041<br/>191312<br/>191387<br/>236216<br/>248160<br/>89735<br/>89610<br/>89735<br/>89751<br/>95082<br/>95084<br/>95447<br/>95082<br/>95084<br/>95447<br/>125909<br/>125910<br/>131262<br/>190796<br/>208781<br/>230256<br/>275965<br/>286729<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>299201<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085</td> <td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td>
<td>C<br/>T<br/>T<br/>A<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>A<br/>A<br/>T<br/>T<br/>A<br/>A<br/>C<br/>C<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>G<br/>G<br/>G<br/>G<br/>G<br/>G<br/>G<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>78       78       78       36       42       38       54       42       39       44       51       50       54       46       46       54       55       66       63       54       55       66       63       54       54       54       54       54       54       54       54       54       54       54       54       54       54       54       54       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       69       69       54       20  </td>  
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181041<br>181041<br>181041<br>191312<br>191387<br>236216<br>248160<br>89735<br>89610<br>89735<br>89751<br>95082<br>95084<br>95447<br>95082<br>95084<br>95447<br>125909<br>125910<br>131262<br>190796<br>208781<br>230256<br>275965<br>286729<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>299201<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085 | -<br>-<br>T<br>G<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C   | C<br>T<br>T<br>A<br>T<br>T<br>A<br>A<br>T<br>C<br>C<br>-<br>C<br>C<br>-<br>C<br>C<br>-<br>A<br>A<br>T<br>T<br>A<br>A<br>C<br>C<br>-<br>C<br>C<br>C<br>C<br>C<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>C<br>C<br>C<br>C<br>C           | 78       78       78       36       42       38       54       42       39       44       51       50       54       46       46       54       55       66       63       54       55       66       63       54       54       54       54       54       54       54       54       54       54       54       54       54       54       54       54       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       69       69       54       20                            | chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07 </td <td>181041           181041           181041           181041           191312           191387           236216           248160           8152           76881           89587           89610           89751           95082           95084           98172           125407           125909           125910           131262           190796           208781           230256           289625           289527           384063           384064           384846           384846           392896           392001           397085           397086           392901           397855</td> <td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>C<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>78         78         78         78         36         42         38         54         42         39         44         51         50         54         46         46         46         55         63         54         54         55         63         64         69         51         63         36         54         55         66         63         36         54         51         63         36         54         51         63         66         63         63         66         63         63         66         63         63         78         52         69         69         54         38</td>  
   
   | 181041           181041           181041           181041           191312           191387           236216           248160           8152           76881           89587           89610           89751           95082           95084           98172           125407           125909           125910           131262           190796           208781           230256           289625           289527           384063           384064           384846           384846           392896           392001           397085           397086           392901           397855  | -<br>-<br>T<br>G<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>C<br>A<br>C<br>C<br>C<br>A<br>C<br>C<br>C<br>A<br>C<br>C<br>C<br>C<br>C<br>A<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C | C<br>T<br>T<br>A<br>A<br>T<br>C<br>A<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C   | 78         78         78         78         36         42         38         54         42         39         44         51         50         54         46         46         46         55         63         54         54         55         63         64         69         51         63         36         54         55         66         63         36         54         51         63         36         54         51         63         66         63         63         66         63         63         66         63         63         78         52         69         69         54         38 | chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07 </td <td>181041           181041           181041           181041           191312           191388           192394           219387           236216           248160           84152           76881           89587           89610           89751           95084           951447           95447           95084           98172           125487           125910           131262           190796           208781           230256           275965           286729           289525           289525           289525           289525           289567           319332           384063           38446           384846           384846           397085           397086           397086           397086           397855           397668</td> <td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>C<br/>T<br/>T<br/>A<br/>T<br/>T<br/>C<br/>A<br/>C<br/>C<br/>-<br/>-<br/>C<br/>C<br/>-<br/>-<br/>A<br/>C<br/>C<br/>-<br/>-<br/>C<br/>C<br/>-<br/>-<br/>A<br/>T<br/>T<br/>A<br/>A<br/>C<br/>C<br/>-<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>78         78         78         36         42         38         54         42         39         44         51         50         54         39         46         54         55         63         54         54         54         55         69         48         69         51         63         36         54         54         54         55         69         44         63         36         54         52         66         63         63         78         52         69         69         54         38         38          38    </td>  
   
  | 181041           181041           181041           181041           191312           191388           192394           219387           236216           248160           84152           76881           89587           89610           89751           95084           951447           95447           95084           98172           125487           125910           131262           190796           208781           230256           275965           286729           289525           289525           289525           289525           289567           319332           384063           38446           384846           384846           397085           397086           397086           397086           397855           397668 | -<br>-<br>T<br>G<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C  | C<br>T<br>T<br>A<br>T<br>T<br>C<br>A<br>C<br>C<br>-<br>-<br>C<br>C<br>-<br>-<br>A<br>C<br>C<br>-<br>-<br>C<br>C<br>-<br>-<br>A<br>T<br>T<br>A<br>A<br>C<br>C<br>-<br>-<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C | 78         78         78         36         42         38         54         42         39         44         51         50         54         39         46         54         55         63         54         54         54         55         69         48         69         51         63         36         54         54         54         55         69         44         63         36         54         52         66         63         63         78         52         69         69         54         38         38          38  |   
   
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      78       78       36       42       38       54       42       39       44       51       50       54       46       54       46       54       55       63       55       69       51       63       54       54       55       63       66       66       63       54       55       66       66       63       66       63       78       52       69       69</td></td></tr> <tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07<!--</td--><td>181041           181041           181041           181041           19132           19138           192394           219387           236216           248160           8152           76881           8967           89610           89735           89751           95084           95084           95447           125909           125910           131262           190796           208781           230256           286729           289525           28967   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      78       78       36       42       38       54       42       39       44       51       50       54       46       46       54       55       66       63       54       55       66       63       54       54       54       54       54       54       54       54       54       54       54       54       54       54       54       54       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       69       69       54       20  </td></td></tr> <tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07<!--</td--><td>181041           181041           181041           181041           191312           191387           236216           248160           8152           76881           89587           89610           89751           95082           95084           98172           125407   
       125909           125910           131262           190796           208781           230256           289625           289527           384063           384064           384846           384846           392896           392001           397085           397086           392901           397855</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78         78         78         78         36         42         38         54         42         39         44         51         50         54         46         46         46         55         63         54         54         55         63         64         69         51         63         36         54         55         66         63         36         54         51         63         36         54         51         63         66         63         63         66         63         63         66         63         63         78         52         69         69         54         38</td></td></tr> <tr><td>chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07<!--</td--><td>181041           181041           181041           181041           191312           191388           192394           219387           236216           248160           84152           76881           89587           89610           89751           95084           951447           95447           95084           98172           125487           125910           131262           190796           208781           230256           275965           286729           289525           289525           289525           289525           289567           319332           384063           38446           384846           384846           397085           397086           397086           397086           397855           397668</td><td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>C<br/>T<br/>T<br/>A<br/>T<br/>T<br/>C<br/>A<br/>C<br/>C<br/>-<br/>-<br/>C<br/>C<br/>-<br/>-<br/>A<br/>C<br/>C<br/>-<br/>-<br/>C<br/>C<br/>-<br/>-<br/>A<br/>T<br/>T<br/>A<br/>A<br/>C<br/>C<br/>-<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>78         78         78         36         42         38         54         42         39         44         51         50         54         39         46         54         55         63         54         54         54         55         69         48         69         51         63         36         54         54         54         55         69         44         63         36         54         52         66         63         63         78         52         69         69         54         38         38          38    </td></td></tr>  
   
  | 181041           181041           181041           181041           191312           191388           192394           219387           236216           248160           8152           76881           8967           89751           95084           95147           95084           98172           125487           125909           125910           131262           190796           289525           289525           28967           319332           384063           384484           384846           384847           386982           392896           3928901           397085   | -<br>-<br>T<br>G<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C  | C<br>T<br>T<br>A<br>T<br>-<br>G<br>A<br>T<br>C<br>-<br>-<br>C<br>-<br>-<br>C<br>-<br>-<br>C<br>-<br>-<br>-<br>A<br>T<br>T<br>A<br>A<br>C<br>-<br>-<br>-<br>C<br>-<br>-<br>-<br>-<br>C<br>-<br>-<br>-<br>C<br>C<br>-<br>-<br>-<br>-  | 78         78         78         36         42         38         54         42         39         44         51         50         54         39         46         46         54         55         69         48         69         51         63         54         55         69         54         55         69         54         55         69         63         54         55         69         63         54         55         66         66         63         63         63         63         63         63         63         63         63         63         63         63         63         64 | chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07 </td <td>181041<br/>181041<br/>181041<br/>191312<br/>191387<br/>236216<br/>248160<br/>8152<br/>76881<br/>89587<br/>89610<br/>89735<br/>89751<br/>95082<br/>95084<br/>95447<br/>95448<br/>98172<br/>125487<br/>125909<br/>125910<br/>131262<br/>190796<br/>208781<br/>230256<br/>275965<br/>289525<br/>289525<br/>289567<br/>384064<br/>384847<br/>386981<br/>386982<br/>392896<br/>392901<br/>397085<br/>397085</td> <td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>C<br/>T<br/>T<br/>A<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>A<br/>A<br/>T<br/>T<br/>A<br/>A<br/>G<br/>G<br/>C<br/>C<br/>C<br/>G<br/>G<br/>G<br/>G<br/>G<br/>G<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>78       78       78       36       42       38       54       42       39       44       51       50       54       46       54       46       54       55       63       55       69       51       63       54       54       55       63       66       66       63       54       55       66       66       63       66       63       78       52       69       69</td>  
   
  | 181041<br>181041<br>181041<br>191312<br>191387<br>236216<br>248160<br>8152<br>76881<br>89587<br>89610<br>89735<br>89751<br>95082<br>95084<br>95447<br>95448<br>98172<br>125487<br>125909<br>125910<br>131262<br>190796<br>208781<br>230256<br>275965<br>289525<br>289525<br>289567<br>384064<br>384847<br>386981<br>386982<br>392896<br>392901<br>397085<br>397085   | -<br>-<br>T<br>G<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>C<br>C<br>C<br>A<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C | C<br>T<br>T<br>A<br>T<br>T<br>A<br>A<br>T<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>A<br>A<br>T<br>T<br>A<br>A<br>G<br>G<br>C<br>C<br>C<br>G<br>G<br>G<br>G<br>G<br>G<br>C<br>C<br>C<br>C<br>C<br>C<br>C  | 78       78       78       36       42       38       54       42       39       44       51       50       54       46       54       46       54       55       63       55       69       51       63       54       54       55       63       66       66       63       54       55       66       66       63       66       63       78       52       69       69   | chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07 </td <td>181041           181041           181041           181041           19132           19138           192394           219387           236216           248160           8152           76881           8967           89610           89735           89751           95084           95084           95447           125909           125910           131262           190796           208781           230256           286729           289525           28967           319322           384064           384847           386982           392901           397085           397086           397085</td> <td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>T<br/>G<br/>G<br/>G<br/>G<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>C<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>78       78       78       78       36       42       38       54       42       39       44       51       50       54       39       46       46       55       63       54       54       55       69       51       63       63       36       54       51       63       63       63       63       63       63       63       63       63       63       63       63       63       63       63       63       64       65       66       66       66       66       63       63       63       63       63       63       63       64       65       66       66       67       68       69       69   </td>  
   
   
   | 181041           181041           181041           181041           19132           19138           192394           219387           236216           248160           8152           76881           8967           89610           89735           89751           95084           95084           95447           125909           125910           131262           190796           208781           230256           286729           289525           28967           319322           384064           384847           386982           392901           397085           397086           397085 | -<br>-<br>T<br>G<br>C<br>C<br>A<br>C<br>C<br>A<br>T<br>G<br>G<br>G<br>G<br>C<br>C<br>A<br>-<br>C<br>C<br>A<br>-<br>C<br>C<br>A<br>-<br>C<br>C<br>A<br>-<br>C<br>C<br>A<br>-<br>C<br>C<br>C<br>A<br>-<br>C<br>C<br>C<br>C<br>C<br>A<br>-<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C | C<br>T<br>T<br>A<br>A<br>T<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C   | 78       78       78       78       36       42       38       54       42       39       44       51       50       54       39       46       46       55       63       54       54       55       69       51       63       63       36       54       51       63       63       63       63       63       63       63       63       63       63       63       63       63       63       63       63       64       65       66       66       66       66       63       63       63       63       63       63       63       64       65       66       66       67       68       69       69          | chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07 </td
<td>181041<br/>181041<br/>181041<br/>191312<br/>191387<br/>236216<br/>248160<br/>89735<br/>89610<br/>89735<br/>89751<br/>95082<br/>95084<br/>95447<br/>95082<br/>95084<br/>95447<br/>125909<br/>125910<br/>131262<br/>190796<br/>208781<br/>230256<br/>275965<br/>286729<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>299201<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085</td> <td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>C<br/>T<br/>T<br/>A<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>A<br/>A<br/>T<br/>T<br/>A<br/>A<br/>C<br/>C<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>G<br/>G<br/>G<br/>G<br/>G<br/>G<br/>G<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>78       78       78       36       42       38       54       42       39       44       51       50       54       46       46       54       55       66       63       54       55       66       63       54       54       54       54       54       54       54       54       54       54       54       54       54       54       54       54       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       69       69       54       20  </td> | 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   66       69       69       54       20                      | chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07 </td <td>181041           181041           181041           181041           191312           191387           236216           248160           8152           76881           89587           89610           89751           95082           95084           98172           125407           125909           125910           131262           190796           208781           230256           289625           289527           384063           384064           384846           384846           392896           392001           397085           397086           392901           397855</td> <td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>C<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>78         78         78         78         36         42         38         54         42         39         44         51         50         54         46         46         46         55         63         54         54         55         63         64         69         51         63         36         54         55         66         63         36         54         51         63         36         54         51         63         66         63         63         66         63         63         66         63         63         78         52         69         69         54         38</td>  
   
   | 181041           181041           181041           181041           191312           191387           236216           248160           8152           76881           89587           89610           89751           95082           95084           98172           125407           125909           125910           131262           190796           208781           230256           289625           289527           384063           384064           384846           384846           392896           392001           397085           397086           392901           397855   
  | -<br>-<br>T<br>G<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>C<br>A<br>C<br>C<br>C<br>A<br>C<br>C<br>C<br>A<br>C<br>C<br>C<br>C<br>C<br>A<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C | C<br>T<br>T<br>A<br>A<br>T<br>C<br>A<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C   | 78         78         78         78         36         42         38         54         42         39         44         51         50         54         46         46         46         55         63         54         54         55         63         64         69         51         63         36         54         55         66         63         36         54         51         63         36         54         51         63         66         63         63         66         63         63         66         63         63         78         52         69         69         54         38 | chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07 </td <td>181041           181041           181041           181041           191312           191388           192394           219387           236216           248160           84152           76881           89587           89610           89751           95084           951447           95447           95084           98172           125487           125910           131262           190796           208781           230256           275965           286729           289525           289525           289525           289525           289567           319332           384063           38446           384846           384846           397085           397086           397086           397086           397855           397668</td> <td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>C<br/>T<br/>T<br/>A<br/>T<br/>T<br/>C<br/>A<br/>C<br/>C<br/>-<br/>-<br/>C<br/>C<br/>-<br/>-<br/>A<br/>C<br/>C<br/>-<br/>-<br/>C<br/>C<br/>-<br/>-<br/>A<br/>T<br/>T<br/>A<br/>A<br/>C<br/>C<br/>-<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>78         78         78         36         42         38         54         42         39         44         51         50         54         39         46         54         55         63         54         54         54         55         69         48         69         51         63         36         54         54         54         55         69         44         63         36         54         52         66         63         63         78         52         69         69         54         38         38          38    </td>  
   
  | 181041           181041           181041           181041           191312           191388           192394           219387           236216           248160           84152           76881           89587           89610           89751           95084           951447           95447           95084           98172           125487           125910           131262           190796           208781           230256           275965           286729           289525           289525           289525           289525           289567           319332           384063           38446           384846           384846           397085           397086           397086           397086           397855           397668  | -<br>-<br>T<br>G<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C  | C<br>T<br>T<br>A<br>T<br>T<br>C<br>A<br>C<br>C<br>-<br>-<br>C<br>C<br>-<br>-<br>A<br>C<br>C<br>-<br>-<br>C<br>C<br>-<br>-<br>A<br>T<br>T<br>A<br>A<br>C<br>C<br>-<br>-<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C | 78         78         78         36         42         38         54         42         39         44         51         50         54         39         46         54         55         63         54         54         54         55         69         48         69         51         63         36         54         54         54         55         69         44         63         36         54         52         66         63         63         78         52         69         69         54         38         38          38  |  
   
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| 181041           181041           181041           181041           191312           191388           192394           219387           236216           248160           8152           76881           8967           89751           95084           95147           95084           98172           125487           125909           125910           131262           190796           289525           289525           28967           319332           384063           384484           384846           384847           386982           392896           3928901           397085   
   
   
  | -<br>-<br>T<br>G<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C  | C<br>T<br>T<br>A<br>T<br>-<br>G<br>A<br>T<br>C<br>-<br>-<br>C<br>-<br>-<br>C<br>-<br>-<br>C<br>-<br>-<br>-<br>A<br>T<br>T<br>A<br>A<br>C<br>-<br>-<br>-<br>C<br>-<br>-<br>-<br>-<br>C<br>-<br>-<br>-<br>C<br>C<br>-<br>-<br>-<br>-   | 78         78         78         36         42         38         54         42         39         44         51         50         54         39         46         46         54         55         69         48         69         51         63         54         55         69         54         55         69         54         55     
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| chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07 </td <td>181041<br/>181041<br/>181041<br/>191312<br/>191387<br/>236216<br/>248160<br/>8152<br/>76881<br/>89587<br/>89610<br/>89735<br/>89751<br/>95082<br/>95084<br/>95447<br/>95448<br/>98172<br/>125487<br/>125909<br/>125910<br/>131262<br/>190796<br/>208781<br/>230256<br/>275965<br/>289525<br/>289525<br/>289567<br/>384064<br/>384847<br/>386981<br/>386982<br/>392896<br/>392901<br/>397085<br/>397085</td> <td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>C<br/>T<br/>T<br/>A<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>A<br/>A<br/>T<br/>T<br/>A<br/>A<br/>G<br/>G<br/>C<br/>C<br/>C<br/>G<br/>G<br/>G<br/>G<br/>G<br/>G<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>78       78       78       36       42       38       54       42       39       44       51       50       54       46       54       46       54       55       63       55       69       51       63       54       54       55       63       66       66       63       54       55       66       66       63       66       63       78       52       69       69</td>   
   
   
  | 181041<br>181041<br>181041<br>191312<br>191387<br>236216<br>248160<br>8152<br>76881<br>89587<br>89610<br>89735<br>89751<br>95082<br>95084<br>95447<br>95448<br>98172<br>125487<br>125909<br>125910<br>131262<br>190796<br>208781<br>230256<br>275965<br>289525<br>289525<br>289567<br>384064<br>384847<br>386981<br>386982<br>392896<br>392901<br>397085<br>397085   | -<br>-<br>T<br>G<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>C<br>C<br>C<br>A<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C   | C<br>T<br>T<br>A<br>T<br>T<br>A<br>A<br>T<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>A<br>A<br>T<br>T<br>A<br>A<br>G<br>G<br>C<br>C<br>C<br>G<br>G<br>G<br>G<br>G<br>G<br>C<br>C<br>C<br>C<br>C<br>C<br>C   | 78       78       78       36       42       38       54       42       39       44       51       50       54       46       54       46       54       55       63       55       69       51       63       54       54       55       63     
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| chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07 </td <td>181041           181041           181041           181041           19132           19138           192394           219387           236216           248160           8152           76881           8967           89610           89735           89751           95084           95084           95447           125909           125910           131262           190796           208781           230256           286729           289525           28967           319322           384064           384847           386982           392901           397085           397086           397085</td> <td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>T<br/>G<br/>G<br/>G<br/>G<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>A<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>C<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>78       78       78       78       36       42       38       54       42       39       44       51       50       54       39       46       46       55       63       54       54       55       69       51       63       63       36       54       51       63       63       63       63       63       63       63       63       63       63       63       63       63       63       63       63       64       65       66       66       66       66       63       63       63       63       63       63       63       64       65       66       66       67       68       69       69   </td>  
   
   
  | 181041           181041           181041           181041           19132           19138           192394           219387           236216           248160           8152           76881           8967           89610           89735           89751           95084           95084           95447           125909           125910           131262           190796           208781           230256           286729           289525           28967           319322           384064           384847           386982           392901           397085           397086           397085  | -<br>-<br>T<br>G<br>C<br>C<br>A<br>C<br>C<br>A<br>T<br>G<br>G<br>G<br>G<br>C<br>C<br>A<br>-<br>C<br>C<br>A<br>-<br>C<br>C<br>A<br>-<br>C<br>C<br>A<br>-<br>C<br>C<br>A<br>-<br>C<br>C<br>C<br>A<br>-<br>C<br>C<br>C<br>C<br>C<br>A<br>-<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C   | C<br>T<br>T<br>A<br>A<br>T<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C  | 78       78       78       78       36       42       38       54       42       39       44       51       50       54       39       46       46       55       63       54       54       55       69       51       63       63       36       54       51   
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| chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07 </td <td>181041<br/>181041<br/>181041<br/>191312<br/>191387<br/>236216<br/>248160<br/>89735<br/>89610<br/>89735<br/>89751<br/>95082<br/>95084<br/>95447<br/>95082<br/>95084<br/>95447<br/>125909<br/>125910<br/>131262<br/>190796<br/>208781<br/>230256<br/>275965<br/>286729<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>289525<br/>299201<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085<br/>397085</td> <td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>C<br/>T<br/>T<br/>A<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>C<br/>C<br/>-<br/>A<br/>A<br/>T<br/>T<br/>A<br/>A<br/>C<br/>C<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>G<br/>G<br/>G<br/>G<br/>G<br/>G<br/>G<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>78       78       78       36       42       38       54       42       39       44       51       50       54       46       46       54       55       66       63       54       55       66       63       54       54       54       54       54       54       54       54       54       54       54       54       54       54       54       54       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       69       69       54       20  </td>  
   
   
  | 181041<br>181041<br>181041<br>191312<br>191387<br>236216<br>248160<br>89735<br>89610<br>89735<br>89751<br>95082<br>95084<br>95447<br>95082<br>95084<br>95447<br>125909<br>125910<br>131262<br>190796<br>208781<br>230256<br>275965<br>286729<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>289525<br>299201<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085<br>397085                                     | -<br>-<br>T<br>G<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C   | C<br>T<br>T<br>A<br>T<br>T<br>A<br>A<br>T<br>C<br>C<br>-<br>C<br>C<br>-<br>C<br>C<br>-<br>A<br>A<br>T<br>T<br>A<br>A<br>C<br>C<br>-<br>C<br>C<br>C<br>C<br>C<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>C<br>C<br>C<br>C<br>C  | 78       78       78       36       42       38       54       42       39       44       51       50       54       46       46       54       55       66       63       54       55       66       63       54       54       54       54     
 54       54       54       54       54       54       54       54       54       54       54       54       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       63       66       69       69       54       20                            |   
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| chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07 </td <td>181041           181041           181041           181041           191312           191387           236216           248160           8152           76881           89587           89610           89751           95082           95084           98172           125407           125909           125910           131262           190796           208781           230256           289625           289527           384063           384064           384846           384846           392896           392001           397085           397086           392901           397855</td> <td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>C<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>78         78         78         78         36         42         38         54         42         39         44         51         50         54         46         46         46         55         63         54         54         55         63         64         69         51         63         36         54         55         66         63         36         54         51         63         36         54         51         63         66         63         63         66         63         63         66         63         63         78         52         69         69         54         38</td>  
   
   
  | 181041           181041           181041           181041           191312           191387           236216           248160           8152           76881           89587           89610           89751           95082           95084           98172           125407           125909           125910           131262           190796           208781           230256           289625           289527           384063           384064           384846           384846           392896           392001           397085           397086           392901           397855  | -<br>-<br>T<br>G<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>C<br>A<br>C<br>C<br>C<br>A<br>C<br>C<br>C<br>A<br>C<br>C<br>C<br>C<br>C<br>A<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C | C<br>T<br>T<br>A<br>A<br>T<br>C<br>A<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C  | 78         78         78         78         36         42         38         54         42         39         44         51         50         54         46         46         46         55         63         54         54         55        
63         64         69         51         63         36         54         55         66         63         36         54         51         63         36         54         51         63         66         63         63         66         63         63         66         63         63         78         52         69         69         54         38 |   
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| chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr06           chr07           chr07 </td <td>181041           181041           181041           181041           191312           191388           192394           219387           236216           248160           84152           76881           89587           89610           89751           95084           951447           95447           95084           98172           125487           125910           131262           190796           208781           230256           275965           286729           289525           289525           289525           289525           289567           319332           384063           38446           384846           384846           397085           397086           397086           397086           397855           397668</td> <td>-<br/>-<br/>T<br/>G<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>C<br/>T<br/>T<br/>A<br/>T<br/>T<br/>C<br/>A<br/>C<br/>C<br/>-<br/>-<br/>C<br/>C<br/>-<br/>-<br/>A<br/>C<br/>C<br/>-<br/>-<br/>C<br/>C<br/>-<br/>-<br/>A<br/>T<br/>T<br/>A<br/>A<br/>C<br/>C<br/>-<br/>-<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>78         78         78         36         42         38         54         42         39         44         51         50         54         39         46         54         55         63         54         54         54         55         69         48         69         51         63         36         54         54         54         55         69         44         63         36         54         52         66         63         63         78         52         69         69         54         38         38          38    </td>   
   
   
  | 181041           181041           181041           181041           191312           191388           192394           219387           236216           248160           84152           76881           89587           89610           89751           95084           951447           95447           95084           98172           125487           125910           131262           190796           208781           230256           275965           286729           289525           289525           289525           289525           289567           319332           384063           38446           384846           384846           397085           397086           397086           397086           397855           397668  | -<br>-<br>T<br>G<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C  | C<br>T<br>T<br>A<br>T<br>T<br>C<br>A<br>C<br>C<br>-<br>-<br>C<br>C<br>-<br>-<br>A<br>C<br>C<br>-<br>-<br>C<br>C<br>-<br>-<br>A<br>T<br>T<br>A<br>A<br>C<br>C<br>-<br>-<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C  | 78         78         78         36         42         38         54         42         39         44         51         50         54         39         46         54         55         63         54         54         54         55         69         48  
      69         51         63         36         54         54         54         55         69         44         63         36         54         52         66         63         63         78         52         69         69         54         38         38          38  |   
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chr07	404477	-	G	51
chr07	404526	_	G	60
chi07	404320	-	0	00
chr07	413089	G	-	49
chr07	413366	G	С	41
chr07	413367	С	G	44
chr07	413409	С	G	38
chr07	413410	Ŭ	Ċ	30
	413410	-	U	39
chr07	413784	A	-	51
chr07	413969	G	-	52
chr07	418633	С	-	39
chr07	441004	-	Т	36
ohr07	509525	C	Ť	62
	596555	č	1	03
chr07	607109	Т	G	44
chr07	610095	А	G	72
chr07	630688	C	т	30
chi07	700107	U	A	59
chru7	700197	-	A	63
chr07	783805	А	С	42
chr07	794412	-	С	40
chr07	705086	^	G	60
chi07	795900	<u>,</u>	0	00
chru7	795987	A	G	60
chr07	795988	А	G	60
chr07	795989	А	G	63
chr07	796569	Δ	Ċ	54
chi07	700570	A	•	54
CNrU7	796570	C	A	54
chr07	924485	-	A	45
chr07	924491	-	С	54
chr07	038725	т		40
	300120		-	40
CNFU/	958924	U.	-	53
chr07	999271	С	Т	45
chr07	999367	А	С	57
chr07	999677	Т		53
onio/	1000005	'	-	44
CNFU/	1006285	-	U.	44
chr07	1032373	G	A	36
chr07	1033108	С	Т	52
chr07	1038054	-	C	48
	1030034	-	C	40
cnru7	1039740	А	-	38
chr07	1041869	С	Т	66
chr07	1042082	А	G	75
ohr07	1042194	^	Č	76
CHIU7	1042164	A	G	/5
chr07	1042307	A	G	39
chr07	1042312	А	G	48
chr07	1042562	G	Α	39
ohr00	0050	Ŭ	<u> </u>	70
CHIU6	0000	-	G	12
chr08	18567	-	G	54
chr08	62687	G	A	55
1 4 -			-	54
chr08	102564	-	C	
chr08	102564	-	C	40
chr08 chr08	102564 133275	-	C T	42
chr08 chr08 chr08	102564 133275 240687	- - G	C T A	42 53
chr08 chr08 chr08 chr08	102564 133275 240687 369889	- - G -	C T A A	42 53 66
chr08 chr08 chr08 chr08 chr08	102564 133275 240687 369889 369087	- - - -	C T A A	42 53 66 52
chr08 chr08 chr08 chr08 chr08 chr08	102564 133275 240687 369889 369987	- G - T	C T A -	42 53 66 52
chr08 chr08 chr08 chr08 chr08 chr08 chr08	102564 133275 240687 369889 369987 417057	- G - T G	C T A - A	42 53 66 52 60
chr08 chr08 chr08 chr08 chr08 chr08 chr08	102564 133275 240687 369889 369987 417057 423723	- G - T G -	C T A - A C	42 53 66 52 60 60
chr08 chr08 chr08 chr08 chr08 chr08 chr08 chr08 chr08 chr09	102564 133275 240687 369889 369987 417057 423723 18865	- G - T G - C	C T A - A C -	42 53 66 52 60 60 44
chr08 chr08 chr08 chr08 chr08 chr08 chr08 chr09 chr09	102564 133275 240687 369889 369987 417057 423723 18865 23186	- G - T G - C	C T A - C - - G	34           42           53           66           52           60           60           44           42
chr08 chr08 chr08 chr08 chr08 chr08 chr08 chr08 chr09 chr09 chr09	102564 133275 240687 369889 369987 417057 423723 18865 23186 23214	- G - T G - C -	C T A - A C - G	34           42           53           66           52           60           60           44           42           44
chr08 chr08 chr08 chr08 chr08 chr08 chr08 chr09 chr09 chr09	102564 133275 240687 369889 369987 417057 423723 18865 23186 23214	- G - T G - C - T T	C T A A - C - G G	34           53           66           52           60           60           44           42           44
chr08 chr08 chr08 chr08 chr08 chr08 chr08 chr08 chr09 chr09 chr09 chr09	102564 133275 240687 369889 369987 417057 423723 18865 23186 23214 23253	- G - T G - C - T C	C T A A - C - G G -	34           42           53           66           52           60           60           44           44           44
chr08           chr08           chr08           chr08           chr08           chr08           chr08           chr09           chr09           chr09           chr09           chr09           chr09	102564 133275 240687 369889 369987 417057 423723 18865 23186 23214 23253 23264	- G - T G - C - T C C C	C T A - - - G G - - -	42           53           66           52           60           60           44           42           44           44           44           44           44
chr08 chr08 chr08 chr08 chr08 chr08 chr09 chr09 chr09 chr09 chr09 chr09 chr09 chr09	102564 133275 240687 369889 369987 417057 423723 18865 23186 23214 23253 23264 23264 23284	- G - T G - C - T C C - T C C C C	C T A - A C - G G - - - -	37           42           53           66           52           60           60           44           42           44           44           44           38
chr08     chr08     chr08     chr08     chr08     chr08     chr08     chr08     chr08     chr09     c	102564 133275 240687 369889 369987 417057 423723 18865 23186 23214 23253 23264 23284 138402	- G - T G - C - T C C C C	C T A A - C - G G - - - - C	42           53           66           52           60           60           44           42           44           44           44           44           53
chr08           chr08           chr08           chr08           chr08           chr08           chr08           chr09	102564 133275 240687 369889 369987 417057 423723 18865 23186 23214 23253 23264 23284 23284 23284 23284	- G - T G - C C C C C C -	C T A A - C - G G - - - C C - - C T	42 53 66 52 60 60 60 44 42 44 44 44 44 38 51
chr08           chr08           chr08           chr08           chr08           chr08           chr09	102564 133275 240687 369889 369987 417057 423723 18865 23186 23214 23253 23264 23214 23253 23264 23284 128403 128410	- G - T G - C - T C C C C C - - -	C T A A C C G G G - C T	42           53           66           52           60           60           44           44           44           44           51           60
chr08           chr08           chr08           chr08           chr08           chr08           chr09	102564 133275 240687 369889 369987 417057 423723 18865 23186 23214 23253 23264 23264 23264 23284 128403 128410 128410	- G - T G - - C - C C C C C - - - -	C T A A - - - - - - - - - - - - - - - - -	42           53           66           52           60           64           44           44           44           44           44           51           60           60
chr08           chr08           chr08           chr08           chr08           chr08           chr09	102564 133275 240687 369889 369987 417057 423723 18865 23186 23214 23253 23264 23254 23264 23264 128400 128410 128410 203638	- G - T C - C C C - C C - - C C C - - A	C T A A C C G G G C T T C C	42           53           66           52           60           64           42           44           44           44           51           60           60           51
chr08           chr08           chr08           chr08           chr08           chr08           chr09	102564 133275 240687 369889 369987 417057 423723 18865 23186 23214 23253 23264 23264 23264 23284 128403 128410 128410 203638 24992	- G - T C C C C C C C C C C C C	С Т А А А С С С С Т С С С Т	42           53           66           52           60           64           44           44           44           44           44           44           60           60           60           60           51           60           51           44
chr08           chr08           chr08           chr08           chr08           chr08           chr09	102564 133275 240687 369869 369987 417057 423723 18865 23214 23264 23264 23264 23264 23264 23284 128403 128410 203638 248836 20368	- G - T C C - T C C C C C C - - T C C C C C	C T A A C C C T C C T T C C T	42           53           66           52           60           60           44           44           44           44           44           51           60           60           51           61           51           62           51           63           54           55           60           61           51           44
chr08           chr08           chr08           chr08           chr08           chr08           chr09	102564 133275 240687 369889 369987 417057 423723 18865 23186 23214 23253 23264 23214 23253 23264 23284 128403 128410 128410 128410 203638 248836	- G - T G - - C - - C - - C - - - - - - - - - - - - -	C T A A A - A C - - G G G - - - C T T C C T T A A A - A A - - - - - - - - - - - -	42           53           66           52           60           60           44           44           44           51           60           61           62           63           64           44           44           44           44           44           44           44           44           44           44           44           44
chr08           chr08           chr08           chr08           chr08           chr08           chr09            chr09           chr09           chr09	102564 133275 240687 369889 369987 417057 423723 18865 23214 23253 23264 23284 128403 128410 203638 248836 248836 248836 318692	- G - T G - - C C - T C C C - - - C - - - - - - - - - - - - -	C T A A A - - - - - - - - - - - - - - - -	42           53           66           52           60           60           44           44           44           44           44           60           51           60           51           60           51           54
chr08           chr08           chr08           chr08           chr08           chr09            chr09           chr09	102564 133275 240687 369889 369987 417057 423723 18865 23186 23214 23253 23264 23264 23264 23284 128400 128410 128410 128410 203638 248836 248836 248836 248836	- - - - - - - - - - - - - -	C T A A - - - - - - - - - - - - - - - - -	42           53           66           52           60           64           44           44           44           44           51           60           60           51           60           51           54
chr08           chr08           chr08           chr08           chr08           chr08           chr09            chr09           chr09           chr09           chr09           chr09           chr09           chr09           chr09           chr09           chr09	102564 133275 240687 369889 369987 417057 423723 18865 23186 23214 23253 23264 23284 128403 128410 128410 128410 128436 248836 248836 318692 333322	- - - - - - - - - - - - - -	C T A A C - - G G C - - C C T T A A C C C C T T A A C C C C C C	42           53           66           52           60           64           44           44           44           44           44           60           60           51           60           51           54           51
chr08           chr08           chr08           chr08           chr08           chr09           chr09 </td <td>102564 133275 240687 369889 369987 417057 423723 18865 23186 23214 23253 23264 23264 23284 128400 128410 203638 248836 248886 2486 24</td> <td>- - - - - - - - - - - - - -</td> <td>C T A A - - - - - - - - - - - - - - - - -</td> <td>42           53           66           52           60           60           44           44           44           44           44           51           60           60           51           51           51           54           54           51           54           54           51</td>	102564 133275 240687 369889 369987 417057 423723 18865 23186 23214 23253 23264 23264 23284 128400 128410 203638 248836 248886 2486 24	- - - - - - - - - - - - - -	C T A A - - - - - - - - - - - - - - - - -	42           53           66           52           60           60           44           44           44           44           44           51           60           60           51           51           51           54           54           51           54           54           51
chr08           chr08           chr08           chr08           chr08           chr08           chr09            chr09           chr09           chr09           chr09           chr09           chr09           chr09           chr09           chr09	102564 133275 240687 369889 369987 417057 423723 18865 23186 23214 23253 23264 23214 23253 23264 23284 128403 128410 128410 128410 128436 248836 318692 333322 439155	- - - - - - - - - - - - - -	C T A A A - A C - G G G - - C C T C C T A A A C C C C T A A C C C C	42           53           66           52           60           64           44           44           44           44           51           51           44           54           55           51           54           55           51           51           51           51           51           51           51
chr08           chr08           chr08           chr08           chr08           chr08           chr09            chr09           chr09           chr09           chr09           chr09           chr09           chr09           chr09           chr09           chr09           chr09           chr09	102564 133275 240687 369889 369987 417057 423723 18865 23214 23253 23264 23284 128403 128410 203638 248836 248836 248836 318692 333322 439155 439328 76241	- - - - - - - - - - - - - -	C T A A C - - G G - - - C T T C C T T A A C C T C C T A C C C T C C C T C C C C	42           53           66           52           60           60           44           44           44           44           44           60           51           60           51           54           54           51           51           51           54           51           51           51           51           51           51           51           51
chr08           chr08           chr08           chr08           chr08           chr09           chr09 </td <td>102564 133275 240687 369889 369987 417057 423723 18865 23186 23214 23253 23264 23284 128403 128410 128410 128410 128410 128436 248886 24886 24886 248</td> <td>- - - - - - - - - - - - - -</td> <td>C T A A C - G G G - - C T T C C T T C C T T C C T T C C T T C C T T C C T T C C C C T C</td> <td>42           53           66           52           60           64           42           44           44           44           51           51           51           54           54           51           51           51           51           51           54           51           51           51           51           51           51           51           51           51           51           51           51           51</td>	102564 133275 240687 369889 369987 417057 423723 18865 23186 23214 23253 23264 23284 128403 128410 128410 128410 128410 128436 248886 24886 24886 248	- - - - - - - - - - - - - -	C T A A C - G G G - - C T T C C T T C C T T C C T T C C T T C C T T C C T T C C C C T C	42           53           66           52           60           64           42           44           44           44           51           51           51           54           54           51           51           51           51           51           54           51           51           51           51           51           51           51           51           51           51           51           51           51
chr08           chr08           chr08           chr08           chr08           chr08           chr09           chr10           chr10 </td <td>102564 133275 240687 369889 369987 417057 423723 18865 23214 23253 23264 23284 128403 128410 203638 248836 318692 333322 439155 439328 76241 81927 84958</td> <td>- - - - - - - - - - - - - -</td> <td>C T A A A - - - - - - - - - - - - - - - -</td> <td>42           53           66           52           60           64           44           44           44           44           44           60           51           51           51           51           51           51           51           39</td>	102564 133275 240687 369889 369987 417057 423723 18865 23214 23253 23264 23284 128403 128410 203638 248836 318692 333322 439155 439328 76241 81927 84958	- - - - - - - - - - - - - -	C T A A A - - - - - - - - - - - - - - - -	42           53           66           52           60           64           44           44           44           44           44           60           51           51           51           51           51           51           51           39
chr08           chr08           chr08           chr08           chr08           chr09            chr09           chr09           chr09           chr09           chr09           chr09           chr09           chr09           chr09           chr09           chr09           chr10	102564 133275 240687 369889 369987 417057 423723 18865 23186 23214 23253 23264 23264 23284 128400 128410 203638 248836 248836 248836 248836 248836 248836 248836 248836 248836 248928 333322 439155	- - - - - - - - - - - - - -	C T A A - - - - - - - - - - - - - - - - -	42           53           66           52           60           60           44           42           44           44           44           51           60           60           51           51           51           54           54           51           51           54           51           51           54           51           51           66           66
chr08           chr08           chr08           chr08           chr08           chr08           chr09           chr10           chr10           chr10           chr10           chr10	102564 133275 240687 369889 369987 417057 423723 18865 23186 23214 23253 23264 23284 128403 128410 128410 128410 128410 128436 248836 318692 333322 44836 318692 333322 439155 439328 76241 81927 84958 89005	- - - - - - - - - - - - - -	C T A A A - A C C T T C C T A A A C G T C T A A A C	42           53           66           52           60           44           44           44           44           44           44           51           60           51           52           53           54           55           56
chr08           chr08           chr08           chr08           chr08           chr09           chr10           chr10           chr10	102564 133275 240687 369869 369987 417057 423723 18865 23214 23264 23264 23264 23264 23264 23264 128403 128410 203638 248836 248836 248836 248836 333322 439155 439328 76241 81927 84958 89005 90365	- - - - - - - - - - - - - -	C T A A A - - - - - - - - - - - - - - - -	42           53           66           52           60           60           44           44           44           44           44           51           60           60           51           51           54           51           51           54           51           51           51           51           66           72
chr08           chr08           chr08           chr08           chr08           chr09           chr10           chr10 </td <td>102564 133275 240687 369889 369987 417057 423723 18865 23186 23214 23253 23264 23284 128403 128410 128410 128410 128410 128436 248836 2641 26527 26527 26527 26557 265577 26557777777777</td> <td>- - - - - - - - - - - - - -</td> <td>C T A A A - - - - - - - - - - - - - - - -</td> <td>42           53           66           52           60           64           42           44           44           44           44           51           51           54           51           54           51           54           51           54           51           54           51           54           51           66           72           60</td>	102564 133275 240687 369889 369987 417057 423723 18865 23186 23214 23253 23264 23284 128403 128410 128410 128410 128410 128436 248836 2641 26527 26527 26527 26557 265577 26557777777777	- - - - - - - - - - - - - -	C T A A A - - - - - - - - - - - - - - - -	42           53           66           52           60           64           42           44           44           44           44           51           51           54           51           54           51           54           51           54           51           54           51           54           51           66           72           60
chr08           chr08           chr08           chr08           chr08           chr09           chr10           chr10           chr10           chr10           chr10           chr10           chr10	102564 133275 240687 369889 369987 417057 423723 18865 23214 23253 23264 23284 128403 128410 203638 248836 248836 333322 439155 439155 43928 76241 81927 84958 89005 90365 90365	- - - - - - - - - - - - - -	C T A A A - - - - - - - - - - - - - - - -	42           53           66           52           60           60           44           44           44           44           44           60           51           51           54           51           51           51           51           51           51           51           51           51           51           52           66           72           66
chr08           chr08           chr08           chr08           chr08           chr09           chr10           chr10           chr10           chr10           chr10           chr10           chr10	102564 133275 240687 369889 369987 417057 423723 18865 23186 23214 23253 23264 23264 23284 128400 128410 128410 128410 203638 248836 24836	- - - - - - - - - - - - - -	C T A A - - - - - - - - - - - - - - - - -	42           53           66           52           60           60           44           42           44           44           44           51           60           60           51           54           51           54           51           54           51           66           72           60           66           66           66           66           66           66           66           66           66           66           66
chr08           chr08           chr08           chr08           chr08           chr09           chr10           chr10           chr10           chr10           chr10           chr10           chr10           chr10           chr10 </td <td>102564 133275 240687 369889 369987 417057 423723 18865 23214 23253 23264 23284 128403 128410 128410 203638 248836 248836 318692 333322 439155 439328 76241 81927 84958 89005 90365 96057 97250 97253 97250</td> <td>- - - - - - - - - - - - - -</td> <td>C T A A A - A C C T A A A C C C T G C</td> <td>42           53           66           52           60           64           44           44           44           44           44           44           51           60           51           51           51           51           51           51           51           66           72           66           66           66</td>	102564 133275 240687 369889 369987 417057 423723 18865 23214 23253 23264 23284 128403 128410 128410 203638 248836 248836 318692 333322 439155 439328 76241 81927 84958 89005 90365 96057 97250 97253 97250	- - - - - - - - - - - - - -	C T A A A - A C C T A A A C C C T G C	42           53           66           52           60           64           44           44           44           44           44           44           51           60           51           51           51           51           51           51           51           66           72           66           66           66
chr08           chr08           chr08           chr08           chr08           chr09           chr10           chr10           chr10           chr10           chr10           chr10           chr10	102564 133275 240687 369889 369987 417057 423723 18865 23186 23214 23264 23264 23264 23264 23264 128410 203638 248836 24886 248836 24886 24886 24886 24886 24886 24	- - - - - - - - - - - - - -	C T A A - - C - - C T C C T C C T C C T A A C C - - C C T A A C C C C C T A A C C C C C C C	42           53           66           52           60           60           44           44           44           44           44           44           51           60           60           51           54           54           51           51           51           51           51           51           66           72           60           66           52
chr08           chr08           chr08           chr08           chr08           chr09            chr09           chr09           chr09           chr09           chr09           chr09           chr09           chr10           chr10           chr10           chr10           chr10	102564 133275 240687 369889 369987 417057 423723 18865 23186 23214 23253 23264 23284 128403 128410 128410 128410 128436 24836 24836 24836 24836 318692 333322 439155 439328 76241 81927 84958 89005 99365 990657 97250 97250 97489 99469	- - - - - - - - - - - - - -	C T A A A - - - - - - - - - - - - - - - -	42           53           66           52           60           44           44           44           44           44           44           44           44           51           51           51           51           66           66           66           52           48
chr08           chr08           chr08           chr08           chr08           chr09           chr10           chr10 </td <td>102564 133275 240687 369869 369987 417057 423723 18865 23214 23264 23264 23264 23264 23284 128403 128410 203638 248836 333322 439155 439328 76241 81927 84958 89005 90365 90365 90365 97253 97489 97253</td> <td>- - - - - - - - - - - - - -</td> <td>C T A A A - - - - - - - - - - - - - - - -</td> <td>42           53           66           52           60           60           44           44           44           44           44           51           60           51           54           51           54           51           54           51           66           72           60           66           52           48           36</td>	102564 133275 240687 369869 369987 417057 423723 18865 23214 23264 23264 23264 23264 23284 128403 128410 203638 248836 333322 439155 439328 76241 81927 84958 89005 90365 90365 90365 97253 97489 97253	- - - - - - - - - - - - - -	C T A A A - - - - - - - - - - - - - - - -	42           53           66           52           60           60           44           44           44           44           44           51           60           51           54           51           54           51           54           51           66           72           60           66           52           48           36
chr08           chr08           chr08           chr08           chr08           chr09           chr10           chr10 </td <td>102564 133275 240687 369889 369987 417057 423723 18865 23186 23214 23253 23264 23264 23284 128400 128410 128410 128410 128410 203638 248836 24886 24886 24886 24886 24886 24886 24886 24886 24886 24886 24886 24886 24886 24886 24886 24886 24886 24866 24866 24866 24866 24866 24866 24866 24866 24866 24866 24866 26</td> <td>- - - - - - - - - - - - - -</td> <td>C T A A - - - - - - - - - - - - - - - - -</td> <td>42           53           66           52           60           60           44           42           44           44           44           51           60           60           51           54           51           54           51           54           51           45           44           39           66           52           48           36</td>	102564 133275 240687 369889 369987 417057 423723 18865 23186 23214 23253 23264 23264 23284 128400 128410 128410 128410 128410 203638 248836 24886 24886 24886 24886 24886 24886 24886 24886 24886 24886 24886 24886 24886 24886 24886 24886 24886 24866 24866 24866 24866 24866 24866 24866 24866 24866 24866 24866 26	- - - - - - - - - - - - - -	C T A A - - - - - - - - - - - - - - - - -	42           53           66           52           60           60           44           42           44           44           44           51           60           60           51           54           51           54           51           54           51           45           44           39           66           52           48           36
chr08           chr08           chr08           chr08           chr08           chr09           chr10           chr10 </td <td>102564 133275 240687 369889 369987 417057 423723 18865 23214 23253 23264 23284 128403 128410 203638 248836 248836 333322 439155 439328 76241 81927 84958 89005 90365 90365 90365 97250 97250 97253 97489 99572 999572 99977</td> <td>- - - - - - - - - - - - - -</td> <td>C T A A A</td> <td>42           53           66           52           60           60           44           42           44           44           44           44           51           51           54           51           51           51           51           66           72           66           66           52           48           84</td>	102564 133275 240687 369889 369987 417057 423723 18865 23214 23253 23264 23284 128403 128410 203638 248836 248836 333322 439155 439328 76241 81927 84958 89005 90365 90365 90365 97250 97250 97253 97489 99572 999572 99977	- - - - - - - - - - - - - -	C T A A A	42           53           66           52           60           60           44           42           44           44           44           44           51           51           54           51           51           51           51           66           72           66           66           52           48           84
chr08           chr08           chr08           chr08           chr08           chr09           chr10           chr10           chr10           chr10           chr10           chr10           chr10           chr10           chr10           chr10 </td <td>102564 133275 240687 369889 369987 417057 423723 18865 23186 23214 23253 23264 23264 23284 128400 128410 203638 248836 248836 248836 248836 248836 248836 248836 248836 333322 439155 439328 76241 81927 84958 89005 90365 96057 97250 97250 97750 97489 99469 99572 99767</td> <td>- - - - - - - - - - - - - -</td> <td>C T A A A</td> <td>42           53           66           52           60           60           44           44           44           44           44           44           51           60           60           51           51           54           51           51           51           54           51           51           66           72           60           66           52           48           36           84           81</td>	102564 133275 240687 369889 369987 417057 423723 18865 23186 23214 23253 23264 23264 23284 128400 128410 203638 248836 248836 248836 248836 248836 248836 248836 248836 333322 439155 439328 76241 81927 84958 89005 90365 96057 97250 97250 97750 97489 99469 99572 99767	- - - - - - - - - - - - - -	C T A A A	42           53           66           52           60           60           44           44           44           44           44           44           51           60           60           51           51           54           51           51           51           54           51           51           66           72           60           66           52           48           36           84           81
chr08           chr08           chr08           chr08           chr08           chr08           chr09           chr10           chr10 </td <td>102564 133275 240687 369889 369987 417057 423723 18865 23214 23253 23264 23284 128403 128410 203638 248836 318692 333322 76241 81927 84958 89005 90365 96057 97250 97250 97250 97250 97250 97253 97489 99469 99572 99777 99778</td> <td>- - - - - - - - - - - - - -</td> <td>C T A A A - - - - - - - - - - - - - - - -</td> <td>42           53           66           52           60           44           42           44           44           44           51           60           51           54           51           51           51           51           66           72           66           52           48           36           84           81           778</td>	102564 133275 240687 369889 369987 417057 423723 18865 23214 23253 23264 23284 128403 128410 203638 248836 318692 333322 76241 81927 84958 89005 90365 96057 97250 97250 97250 97250 97250 97253 97489 99469 99572 99777 99778	- - - - - - - - - - - - - -	C T A A A - - - - - - - - - - - - - - - -	42           53           66           52           60           44           42           44           44           44           51           60           51           54           51           51           51           51           66           72           66           52           48           36           84           81           778
chr08           chr08           chr08           chr08           chr08           chr09           chr10           chr10 </td <td>102564 133275 240687 369889 369987 417057 423723 18865 23186 23214 23264 23264 23264 23264 23264 128403 128410 203638 248836 24886 248836 24886 248836 24886 24886 24886 2</td> <td>- - - - - - - - - - - - - -</td> <td>C T A A C - G G C T C T C C T C C T C C T A A C C C C T C C T C C T C C T C C C C</td> <td>42           53           66           52           60           60           44           44           44           44           44           44           51           60           60           51           51           54           51           51           54           51           51           66           72           60           66           52           48           36           84           81           78           66</td>	102564 133275 240687 369889 369987 417057 423723 18865 23186 23214 23264 23264 23264 23264 23264 128403 128410 203638 248836 24886 248836 24886 248836 24886 24886 24886 2	- - - - - - - - - - - - - -	C T A A C - G G C T C T C C T C C T C C T A A C C C C T C C T C C T C C T C C C C	42           53           66           52           60           60           44           44           44           44           44           44           51           60           60           51           51           54           51           51           54           51           51           66           72           60           66           52           48           36           84           81           78           66
chr08           chr08           chr08           chr08           chr08           chr09           chr10           chr10           chr10           chr10           chr10           chr10           chr10           chr10           chr10 </td <td>102564 133275 240687 369889 369987 417057 423723 18865 23186 23214 23253 23264 23284 128403 128410 128410 128410 128410 128436 248836 24892 33322 275 39775 39777 39777 39777 39777 39777 39777</td> <td>- - - - - - - - - - - - - -</td> <td>C T A A A - - - - - - - - - - - - - - - -</td> <td>42           53           66           52           60           44           44           44           44           44           44           44           51           60           61           60           51           51           51           51           51           51           66           66           52           48           36           84           81           78           66           63</td>	102564 133275 240687 369889 369987 417057 423723 18865 23186 23214 23253 23264 23284 128403 128410 128410 128410 128410 128436 248836 24892 33322 275 39775 39777 39777 39777 39777 39777 39777	- - - - - - - - - - - - - -	C T A A A - - - - - - - - - - - - - - - -	42           53           66           52           60           44           44           44           44           44           44           44           51           60           61           60           51           51           51           51           51           51           66           66           52           48           36           84           81           78           66           63
chr08           chr08           chr08           chr08           chr08           chr09           chr10           chr10 </td <td>102564 133275 240687 369869 369987 417057 423723 18865 23214 23253 23264 23284 128403 128410 203638 248836 333322 439155 439328 76241 81927 84958 89005 90365 90365 90365 97250 97253 97489 90767 99777 99777 99777</td> <td>- - - - - - - - - - - - - -</td> <td>C T A A</td> <td>342           53           66           52           60           60           44           44           44           44           44           44           51           60           51           54           51           51           51           51           51           51           52           66           52           48           84           81           78           66           63</td>	102564 133275 240687 369869 369987 417057 423723 18865 23214 23253 23264 23284 128403 128410 203638 248836 333322 439155 439328 76241 81927 84958 89005 90365 90365 90365 97250 97253 97489 90767 99777 99777 99777	- - - - - - - - - - - - - -	C T A A	342           53           66           52           60           60           44           44           44           44           44           44           51           60           51           54           51           51           51           51           51           51           52           66           52           48           84           81           78           66           63
chr08           chr08           chr08           chr08           chr08           chr09           chr10           chr10 </td <td>102564 133275 240687 369889 369987 417057 423723 18865 23186 23214 23253 23264 23264 23284 128403 128410 128410 128410 203638 248836 248927 89976 99777 99778 99792 99792 99792 99792</td> <td>- - - - - - - - - - - - - -</td> <td>C T A A - - - - - - - - - - - - - - - - -</td> <td>37         42           53         66           52         60           60         44           44         44           44         44           44         60           60         60           51         51           44         54           51         51           51         51           66         66           72         60           66         66           52         48           36         84           81         78           63         45</td>	102564 133275 240687 369889 369987 417057 423723 18865 23186 23214 23253 23264 23264 23284 128403 128410 128410 128410 203638 248836 248927 89976 99777 99778 99792 99792 99792 99792	- - - - - - - - - - - - - -	C T A A - - - - - - - - - - - - - - - - -	37         42           53         66           52         60           60         44           44         44           44         44           44         60           60         60           51         51           44         54           51         51           51         51           66         66           72         60           66         66           52         48           36         84           81         78           63         45
chr08           chr08           chr08           chr08           chr08           chr09           chr10           chr10 </td <td>102564 133275 240687 369889 369987 417057 423723 18865 23214 23253 23264 23284 128403 128410 203638 248836 248836 333322 439155 439328 76241 81927 84958 89005 90365 90365 90365 90365 90365 97250 97250 97253 97489 99572 99777 99777 99777 99777 99777 99777 99777 99777</td> <td>- - - - - - - - - - - - - -</td> <td>C T A A A - - - - - - - - - - - - - - - -</td> <td>42           53           66           52           60           60           44           42           44           44           44           44           51           51           54           51           51           51           51           66           72           60           66           52           48           81           78           66           63</td>	102564 133275 240687 369889 369987 417057 423723 18865 23214 23253 23264 23284 128403 128410 203638 248836 248836 333322 439155 439328 76241 81927 84958 89005 90365 90365 90365 90365 90365 97250 97250 97253 97489 99572 99777 99777 99777 99777 99777 99777 99777 99777	- - - - - - - - - - - - - -	C T A A A - - - - - - - - - - - - - - - -	42           53           66           52           60           60           44           42           44           44           44           44           51           51           54           51           51           51           51           66           72           60           66           52           48           81           78           66           63
chr08           chr08           chr08           chr08           chr08           chr09           chr10           chr10 </td <td>102564 133275 240687 369889 369987 417057 423723 18865 23186 23214 23253 23264 23264 23264 128410 203638 248836 248836 248836 248836 248836 248836 248836 318692 333322 439155 439328 76241 81927 84958 89005 90365 96057 97250 97750 97750 97750 97750 97778 99778 99777 99777 99777 99777 99777 99777 99778</td> <td>- - - - - - - - - - - - - -</td> <td>С Т А А</td> <td>37           42           53           66           52           60           60           44           44           44           44           44           44           44           51           51           54           54           51           51           51           54           51           66           72           60           66           52           48           36           84           81           78           66           63           45</td>	102564 133275 240687 369889 369987 417057 423723 18865 23186 23214 23253 23264 23264 23264 128410 203638 248836 248836 248836 248836 248836 248836 248836 318692 333322 439155 439328 76241 81927 84958 89005 90365 96057 97250 97750 97750 97750 97750 97778 99778 99777 99777 99777 99777 99777 99777 99778	- - - - - - - - - - - - - -	С Т А А	37           42           53           66           52           60           60           44           44           44           44           44           44           44           51           51           54           54           51           51           51           54           51           66           72           60           66           52           48           36           84           81           78           66           63           45
chr08           chr08           chr08           chr08           chr08           chr09           chr10           chr10           chr10           chr10           chr10           chr10           chr10           chr10           chr10 </td <td>102564 133275 240687 369889 369987 417057 423723 18865 23214 23253 23264 23284 128403 128410 203638 248836 2383 248410 203638 248836 333322 76241 81927 84958 89005 90365 96057 97250 97500 97500 97500 97500 975000 9750000000000</td> <td>- - - - - - - - - - - - - -</td> <td>C T A A A</td> <td>342           53           66           52           60           64           44           44           44           44           44           44           51           60           61           62           53           64           54           51           51           51           51           51           51           66           52           48           36           84           81           778           66           63           445</td>	102564 133275 240687 369889 369987 417057 423723 18865 23214 23253 23264 23284 128403 128410 203638 248836 2383 248410 203638 248836 333322 76241 81927 84958 89005 90365 96057 97250 97500 97500 97500 97500 975000 9750000000000	- - - - - - - - - - - - - -	C T A A A	342           53           66           52           60           64           44           44           44           44           44           44           51           60           61           62           53           64           54           51           51           51           51           51           51           66           52           48           36           84           81           778           66           63           445
chr08           chr08           chr08           chr08           chr08           chr09           chr10           chr10 </td <td>102564 133275 240687 369889 369987 417057 423723 18865 23214 23263 23264 23264 23284 128403 128410 203638 248836 248836 248836 248836 248836 248836 248836 248836 248836 248836 248836 248836 248836 248836 248836 248836 248836 33322 439155 90657 90755 90365 90365 90365 90365 90365 90725 9778 99772 99778 99777 99777 99777 99777 99778</td> <td>- - - - - - - - - - - - - -</td> <td>C T A A A</td> <td>37           42           53           66           52           60           60           44           44           44           44           44           44           51           60           51           54           51           54           51           51           51           51           66           52           48           36           84           81           78           66           63           45           46           36           84           81           78           66           63           445</td>	102564 133275 240687 369889 369987 417057 423723 18865 23214 23263 23264 23264 23284 128403 128410 203638 248836 248836 248836 248836 248836 248836 248836 248836 248836 248836 248836 248836 248836 248836 248836 248836 248836 33322 439155 90657 90755 90365 90365 90365 90365 90365 90725 9778 99772 99778 99777 99777 99777 99777 99778	- - - - - - - - - - - - - -	C T A A A	37           42           53           66           52           60           60           44           44           44           44           44           44           51           60           51           54           51           54           51           51           51           51           66           52           48           36           84           81           78           66           63           45           46           36           84           81           78           66           63           445
chr08           chr08           chr08           chr08           chr08           chr09           chr10           chr10 </td <td>102564 133275 240687 369889 369987 417057 423723 18865 23186 23214 23253 23264 23264 23284 128400 128410 128410 128410 128410 203638 248836 248846 248846 24886 248846 248846 24886 2</td> <td>- - - - - - - - - - - - - -</td> <td>C T A A C - G G G - - C T T C C T T C C T T C C T T C C T T C C C T C C T C C C C T C</td> <td>37         42           53         66           52         60           60         44           44         44           44         44           44         51           51         51           51         51           51         51           66         52           48         36           84         81           78         66           63         45           44         44</td>	102564 133275 240687 369889 369987 417057 423723 18865 23186 23214 23253 23264 23264 23284 128400 128410 128410 128410 128410 203638 248836 248846 248846 24886 248846 248846 24886 2	- - - - - - - - - - - - - -	C T A A C - G G G - - C T T C C T T C C T T C C T T C C T T C C C T C C T C C C C T C	37         42           53         66           52         60           60         44           44         44           44         44           44         51           51         51           51         51           51         51           66         52           48         36           84         81           78         66           63         45           44         44
chr08           chr08           chr08           chr08           chr08           chr09           chr10           chr10 </td <td>102564 133275 240687 369869 369987 417057 423723 18865 23214 23253 23264 23284 128403 128410 203638 248836 333322 439155 439358 76241 81927 84958 89005 90365 9057 9057 90776 90777 90778 90767 90778 90767 90778 90767 90778 90767 90778 90767 90778 90767 90778 90767 90778 90767 90778 90767 90778 90767 90778 90767 90778 90767 90778 90767 90778 90767 90778 90767 90778 90767 90778 90778 90776 90778 90776</td> <td>- - - - - - - - - - - - - -</td> <td>C T A A A - - - - - - - - - - - - - - - -</td> <td>42           53           66           52           60           60           44           44           44           44           44           44           44           51           51           54           51           51           51           51           51           51           52           66           66           52           48           84           81           78           66           63           45           44           49</td>	102564 133275 240687 369869 369987 417057 423723 18865 23214 23253 23264 23284 128403 128410 203638 248836 333322 439155 439358 76241 81927 84958 89005 90365 9057 9057 90776 90777 90778 90767 90778 90767 90778 90767 90778 90767 90778 90767 90778 90767 90778 90767 90778 90767 90778 90767 90778 90767 90778 90767 90778 90767 90778 90767 90778 90767 90778 90767 90778 90767 90778 90778 90776 90778 90776	- - - - - - - - - - - - - -	C T A A A - - - - - - - - - - - - - - - -	42           53           66           52           60           60           44           44           44           44           44           44           44           51           51           54           51           51           51           51           51           51           52           66           66           52           48           84           81           78           66           63           45           44           49
chr08           chr08           chr08           chr08           chr08           chr09           chr10           chr10 </td <td>102564 133275 240687 369889 369987 417057 423723 18865 23186 23214 23253 23264 23264 23284 128400 128410 203638 248836 248836 248836 248836 248836 248836 248836 248836 248836 248836 248836 933322 439155 439328 76241 81927 84958 89005 90365 96057 97250 97750 977250 9778 99772 99777 99777 99777 99777 99777 99777 99777 99777 99777 99778 99792 99793 102276 102610 102643 110898 111287 111646</td> <td>- - - - - - - - - - - - - -</td> <td>C T A A C - - - - - - - - - - - - - - - - -</td> <td>34           42           53           66           52           60           44           44           44           44           44           44           44           51           60           60           51           44           54           51           51           45           44           54           51           60           66           66           66           66           66           66           66           66           63           44           44           44           44           44           44</td>	102564 133275 240687 369889 369987 417057 423723 18865 23186 23214 23253 23264 23264 23284 128400 128410 203638 248836 248836 248836 248836 248836 248836 248836 248836 248836 248836 248836 933322 439155 439328 76241 81927 84958 89005 90365 96057 97250 97750 977250 9778 99772 99777 99777 99777 99777 99777 99777 99777 99777 99777 99778 99792 99793 102276 102610 102643 110898 111287 111646	- - - - - - - - - - - - - -	C T A A C - - - - - - - - - - - - - - - - -	34           42           53           66           52           60           44           44           44           44           44           44           44           51           60           60           51           44           54           51           51           45           44           54           51           60           66           66           66           66           66           66           66           66           63           44           44           44           44           44           44
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chr08           chr08           chr08           chr08           chr08           chr09           chr10           chr10           chr10           chr10           chr10           chr10           chr10           chr10           chr10 </td <td>102564 133275 240687 369889 369987 417057 423723 18865 23214 23253 23264 23284 128403 128410 203638 248836 248836 248836 248836 248836 248836 333322 76241 81927 84958 89005 90365 90365 90365 90365 97250 97277 99777 99777 99777 99777 99777 99777 99772 99773 102276 102640 102642 102643 110898 111287 111646</td> <td>- - - - - - - - - - - - - -</td> <td>C T A A A</td> <td>37         42           53         66           52         60           60         44           44         44           44         44           38         51           60         60           51         54           51         51           51         51           66         52           48         36           84         81           778         66           63         45           44         44           45         44           52         38           36         84           81         778           66         63           45         54           53         38           44         49           44         44           55         338           55         338</td>	102564 133275 240687 369889 369987 417057 423723 18865 23214 23253 23264 23284 128403 128410 203638 248836 248836 248836 248836 248836 248836 333322 76241 81927 84958 89005 90365 90365 90365 90365 97250 97277 99777 99777 99777 99777 99777 99777 99772 99773 102276 102640 102642 102643 110898 111287 111646	- - - - - - - - - - - - - -	C T A A A	37         42           53         66           52         60           60         44           44         44           44         44           38         51           60         60           51         54           51         51           51         51           66         52           48         36           84         81           778         66           63         45           44         44           45         44           52         38           36         84           81         778           66         63           45         54           53         38           44         49           44         44           55         338           55         338

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| chr10  
  | 129111  | Т   | С  
  | 51  |   |   |   |   |   |   | | |
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| chr10  
  | 171997  | C   | G  
  | 69  |   |   |   |   |   |   | | |
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| chr10  
  | 171008  | G   | C  
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  | 179434  | С   | G  
  | 60  |   |   |   |   |   |   | | |
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| chr10  
  | 195503  | -   | С  
  | 39  |   |   |   |   |   |   | | |
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| chr10  
  | 200219  | Δ   | G  
  | 51  |   |   |   |   |   |   | | |
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| Chriu  
  | 204551  | G   | | | | | | | |
  | 54  |   |   |   |   |   |   |  
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| chr10  
  | 204552  | T   | G  
  | 54  |   |   |   |   |   |   | | |
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| chr10  
  | 205348  | С   | А  
  | 47  |   |   |   |   |   |   | | |
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| chr10  
  | 297727  | т   | G  
  | 45  |   |   |   |   |   |   | | |
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  | 291121  |   | G  
  | 4J  |   |   |   |   |   |   | | |
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| chr10  
  | 407437  | -   | A  
  | 57  |   |   |   |   |   |   | | |
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| chr10  
  | 414288  | С   | G  
  | 66  |   |   |   |   |   |   | | |
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| chr10  
  | 414289  | G   | С  
  | 66  |   |   |   |   |   |   | | |
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  | 26  |   |   |   |   |   |   | | |
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| CIII IO  
  | 421011  | G   | A  
  | 30  |   |   |   |   |   |   | | |
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| chr10  
  | 438634  | -   | A  
  | 42  |   |   |   |   |   |   | | |
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| chr10  
  | 599597  | A   | -  
  | 48  |   |   |   |   |   |   | | |
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| chr10  
  | 599640  | Δ   | -  
  | 46  |   |   |   |   |   |   | | |
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  | 500715  | ^   | | | | | | | |
  | 51  |   |   |   |   |   |   |  
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| CIII IO  
  | 599715  | A   | -  
  | 51  |   |   |   |   |   |   | | |
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  | 599750  | A   | | | | | | | |
  | 52  |   |   |   |   |   |   |  
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| chr10  
  | 625484  | G   | A  
  | 54  |   |   |   |   |   |   | | |
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  | 627373  | Т   | C  
  | 63  |   |   |   |   |   |   | | |
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  | 027526  | U   | G  
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  | 627529  | С   | G  
  | 78  |   |   |   |   |   |   | | |
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  | 629484  | Т   | A  
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  | 670287  | Т   | G  
  | 49  |   |   |   |   |   |   | | |
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  | 687986  | A   | G  
  | 42  |   |   |   |   |   |   | | |
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| chr10  
  | 708358  | Т   | A  
  | 60  |   |   |   |   |   |   | | |
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  | 708442  | Δ   | т  
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  | 716506  | С   | A  
  | 57  |   |   |   |   |   |   | | |
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  | 717779  | G   | A  
  | 84  |   |   |   |   |   |   | | |
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  | 722280  | G   | т  
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  | 124288  |   | G  
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  | 724996  | G   | Т  
  | 69  |   |   |   |   |   |   | | |
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| chr10  
  | 727116  | С   | G  
  | 42  |   |   |   |   |   |   | | |
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  | 72  |   |   |   |   |   |   | | |
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| Chirito  
  | 733259  | G   | A  
  | 72  |   |   |   |   |   |   | | |
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| chr10  
  | 733992  | С   | | | | | | | |
  | 75  |   |   |   |   |   |   |  
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| chr10  
  | 734777  | G   | A  
  | 69  |   |   |   |   |   |   | | |
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| chr11  
  | 68457   | -   | С  
  | 63  |   |   |   |   |   |   | | |
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  | 68471   | -   | G  
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| chr11  
  | 69325   | T   | С  
  | 51  |   |   |   |   |   |   | | |
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| chr11  
  | 69326   | G   | Т  
  | 51  |   |   |   |   |   |   | | |
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| chr11  
  | 69494   | G   | | | | | | | |
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  | 192315  | A   | | | | | | | |
  | 63  |   |   |   |   |   |   |  
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  | 197106  | G   | С  
  | 72  |   |   |   |   |   |   | | |
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| chr11<br>chr11   
  | 199356<br>199359<br>199368  |   | T<br>T<br>T  
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| chr11<br>chr11<br>chr11  
  | 199356<br>199359<br>199368<br>199377  | -<br>-<br>-<br>A  | T<br>T<br>T<br>T   
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  | 199356<br>199359<br>199368<br>199377<br>199378  | -<br>-<br>-<br>A<br>T   | T<br>T<br>T<br>T   
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  | 50<br>48<br>51<br>50<br>50  |   |   |   |   |   |   | | |
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  | 50       48       51       50       50       48   |   |   |   |   |   |   | | |
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| chr11           chr11           chr11           chr11           chr11           chr11           chr11  
  | 199356<br>199359<br>199368<br>199377<br>199378<br>242811<br>253006  | -<br>-<br>A<br>T<br>T<br>A  | T<br>T<br>T<br>A<br>A<br>T   
  | 30           48           51           50           50           48           72  |   |   |   |   |   |   | | |
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  | 50<br>48<br>51<br>50<br>50<br>48<br>72<br>75  |   |   |   |   |   |   | | |
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  | 30           48           51           50           50           48           72           75           78  |   |   |   |   |   |   | | |
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  | 199356<br>199359<br>199368<br>199377<br>199378<br>242811<br>253006<br>253007<br>316656<br>232652  | -<br>-<br>A<br>T<br>T<br>A<br>T<br>C  | T<br>T<br>T<br>A<br>A<br>T<br>A<br>T<br>A<br>T   
  | 30           48           51           50           50           48           72           75           78           51   |   |   |   |   |   |   | | |
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  | 30           48           51           50           50           48           72           75           78           51   |   |   |   |   |   |   | | |
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  | 30           48           51           50           50           48           72           75           78           51           48           48   |   |   |   |   |   |   | | |
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  | 30           48           51           50           50           70           75           78           51           48           54  |   |   |   |   |   |   | | |
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  | 30           48           51           50           50           48           72           75           51           51           51           48           51           48           51           48           54           45   |   |   |   |   |   |   | | |
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  | 50           48           51           50           48           72           75           78           51           48           54           45           51  |   |   |   |   |   |   | | |
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  | 50           48           51           50           50           48           72           75           78           51           48           51           54           45           51           53   |   |   |   |   |   |   | | |
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  | 50           48           51           50           48           72           75           78           51           48           54           45           51           53           59  |   |   |   |   |   |   | | |
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  |   |   |   |   |   |   |   |   |   |  
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| chr11  
  | 199356           199359           199368           199377           199378           242811           253007           316656           322663           335190           340150           357929           359605           393438           393439  | -<br>-<br>A<br>T<br>T<br>A<br>T<br>C<br>A<br>C<br>A<br>C<br>A<br>T<br>-<br>C<br>G   | T<br>T<br>T<br>A<br>A<br>T<br>T<br>T<br>T<br>C<br>G<br>G<br>C  
  | 50           48           51           50           50           48           72           75           78           51           48           54           45           51           53  |   |   |   |   |   |   | | |
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| chr11  
  | 199356           199359           199368           199377           199378           242811           253007           316656           322663           335190           340150           359605           393438           393439           457775  | -<br>-<br>A<br>T<br>T<br>A<br>A<br>T<br>C<br>A<br>C<br>A<br>C<br>A<br>C<br>C<br>G<br>C  | T<br>T<br>T<br>A<br>A<br>T<br>T<br>T<br>T<br>C<br>G<br>G<br>C<br>T   
  | 50           48           51           50           48           72           75           78           51           48           54           45           51           53           53  |   |   |   |   |   |   | | |
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  | 30           48           51           50           48           72           75           78           51           48           54           45           51           53           53           53           54  |   |   |   |   |   |   | | |
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  | 50           48           51           50           48           72           75           78           51           48           54           54           54           54           54           54           54           54           54  |   |   |   |   |   |   |  | |
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  | 50           48           51           50           48           72           75           78           51           48           54           53           53           53           54           54           54           54           54           54           54           54           54           54           54           54           54           54   |   |   |   |   |   |   |  | |
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| chr11  
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  | 50           48           51           50           48           72           75           78           51           48           54           54   |   |   |   |   |   |   |  | |
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  | 50           48           51           50           48           72           75           78           51           48           54           51           53           54           54           54           54           54           54           54           54           54           54           54           54           53   |   |   |   |   |   |   |  | |
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  | 50           48           51           50           48           72           75           78           51           48           54           45           51           53           53           54           53   |   |   |   |   |   |   |  | |
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  | 50           48           51           50           48           72           75           78           51           48           54           55           53           54           53           45  |   |   |   |   |   |   |  | |
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  | 199356<br>199359<br>199368<br>199377<br>199378<br>242811<br>253006<br>253007<br>316656<br>322663<br>335190<br>340150<br>357929<br>359605<br>393438<br>393438<br>393439<br>457775<br>463435<br>479596<br>509993<br>509994<br>610650<br>618236<br>618237  | -<br>-<br>A<br>T<br>T<br>A<br>A<br>T<br>C<br>A<br>A<br>C<br>C<br>A<br>C<br>C<br>G<br>C<br>C<br>C<br>G<br>G<br>C<br>C<br>C<br>G<br>A   | T           T           T           A           A           T           A           T           T           T           T           T           T           T           T           T           T           G           G           C           T           T           T           G           G           G           G           G           G           G           G           G           G           G           G           G           G           G           G           G           G  
  | 30         30           48         51           50         50           48         72           75         51           48         54           54         54           53         53           42         54           54         54           54         54           54         54           54         54           54         54           54         54           54         54           53         45           48         53   |   |   |   |   |   |   |  | |
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| chr11  
  | 199356           199359           199368           199377           199378           242811           253007           316656           322663           357929           359605           393438           457775           463435           479596           509993           509994           610650           618237           32902  | -<br>-<br>A<br>T<br>T<br>A<br>T<br>C<br>A<br>A<br>C<br>A<br>C<br>A<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>G<br>G<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>C   | T           T           T           A           A           T           T           T           T           T           T           T           T           T           T           T           T           G           G           T           T           T           G           G           C           G           G           G           G           G           A  
  | 50           48           51           50           48           72           75           78           51           48           54   |   |   |   |   |   |   |  | |
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| chr11           chr12  
  | 199356           199359           199368           199377           199378           242811           253006           253007           316656           322663           335190           340150           359605           393438           393438           393438           509993           509994           610650           618236           618237           32902           185062   | -<br>-<br>A<br>T<br>T<br>A<br>A<br>T<br>C<br>A<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>G<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C  | T           T           T           A           A           T           A           T           T           T           T           T           T           T           T           T           T           T           T           G           G           C           T           T           T           G           G           G           C           G           G           A           A  
  | 30           48           51           50           51           50           48           71           75           78           51           48           54           53           53           54           54           54           54           54           54           54           54           54           54           54           54           54           54           54           54           54           53           54           54           53           54           54           53           53           54           53           53           54           53           53           54           53           54           53           54           51   |   |   |   |   |   |   |  | |
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| chr11           chr12  
  | 199356<br>199359<br>199368<br>199377<br>199378<br>242811<br>253006<br>253007<br>316656<br>322663<br>335190<br>340150<br>357929<br>359605<br>393438<br>393439<br>457775<br>463435<br>509993<br>509994<br>610650<br>618236<br>618237<br>32902<br>185062<br>187139   | -<br>-<br>A<br>T<br>T<br>A<br>T<br>C<br>A<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>G<br>C<br>C<br>G<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C  | T           T           T           A           A           T           T           T           T           T           T           T           T           T           T           T           T           T           T           G           C           G           C           T           T           G           C           G           G           A           A           A  
  | 50           48           51           50           48           72           75           78           51           48           54           45           51           53           53           54           51           52   |   |   |   |   |   |   |  | |
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| chr11           chr12           chr12           chr12  
  | 199356           199359           199368           199377           199378           242811           253007           316656           322663           335190           340150           359605           393438           393438           393438           509993           509993           610650           618236           618237           32902           185062           187729   | -<br>-<br>-<br>A<br>T<br>T<br>A<br>T<br>C<br>A<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C   | T           T           T           A           A           T           A           T           T           T           T           T           T           T           T           T           T           T           T           T           T           G           G           G           A           G           A           A           A  
  | 50           48           51           50           48           71           75           78           51           48           54           55           53           54           51           52           39  |   |   |   |   |   |   |  | |
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| chr11           chr12           chr12           chr12  
  | 199356<br>199359<br>199368<br>199377<br>199378<br>242811<br>253006<br>253007<br>316656<br>322663<br>335190<br>340150<br>357929<br>359605<br>393438<br>393438<br>457775<br>463435<br>509993<br>509994<br>610650<br>618237<br>32902<br>185062<br>187139<br>187393   | -<br>-<br>A<br>T<br>T<br>A<br>T<br>C<br>A<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>G<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>C   | T           T           T           A           A           T           T           T           T           T           T           T           T           T           T           T           T           T           G           C           G           G           G           G           A           A           -  
  | 50           48           51           50           48           71           75           78           51           48           54           45           51           53           53           54           53           48           54           51           52           39           11  |   |   |   |   |   |   |  | |
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| chr11           chr12           chr12           chr12  
  | 199356           199359           199368           199377           199378           242811           253007           316656           322663           335190           340150           357929           35905           393438           457775           463435           479596           509993           509994           610650           618237           32902           187082           187393           187424  | -<br>-<br>A<br>T<br>T<br>A<br>T<br>T<br>A<br>A<br>T<br>C<br>A<br>A<br>C<br>A<br>A<br>C<br>C<br>A<br>C<br>G<br>C<br>C<br>G<br>G<br>C<br>C<br>G<br>G<br>C<br>C<br>G<br>G<br>C<br>C<br>A<br>A<br>A<br>A  | T         T         T         A         A         T         A         T         T         T         T         T         T         T         T         T         T         T         G         G         C         G         C         G         G         C         G         A         A         -         -  
  | 50           48           51           50           48           71           75           78           51           48           54           53           39           44   |   |   |   |   |   |   |  | |
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| chr11           chr12           chr12           chr12           chr12           chr12           chr12  
  | 199356           199359           199368           199377           199378           242811           253007           316656           322663           335190           340150           359605           393438           393438           393439           457775           463435           479596           509993           509993           509994           610650           618237           32902           185062           187139           187424           192416  | -<br>-<br>A<br>T<br>T<br>A<br>T<br>A<br>A<br>T<br>C<br>A<br>C<br>A<br>C<br>C<br>C<br>G<br>C<br>C<br>G<br>C<br>C<br>G<br>C<br>C<br>G<br>C<br>C<br>G<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C  | T         T         T         A         A         T         A         T         T         T         T         T         T         T         T         T         T         G         G         C         G         C         G         G         C         G         A         -         T         T         T  
  | 30           48           51           50           48           51           50           48           72           78           51           48           54           53           53           54           54           54           54           54           54           54           54           54           54           54           54           53           44           52   |   |   |   |   |   |   | | |
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| chr11           chr12           chr12           chr12           chr12           chr12           chr12           chr12  
  | 199356<br>199359<br>199368<br>199377<br>199378<br>242811<br>253006<br>253007<br>316656<br>322663<br>335190<br>340150<br>357929<br>359605<br>393438<br>393439<br>457775<br>463435<br>479596<br>509993<br>509994<br>610650<br>618237<br>32902<br>1857029<br>187393<br>187393<br>187424<br>192416<br>193483  | -<br>-<br>A<br>T<br>T<br>T<br>A<br>T<br>C<br>A<br>C<br>A<br>C<br>A<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>C<br>C<br>C<br>A<br>C<br>A   | T           T           T           A           A           T           T           T           T           T           T           T           T           T           T           T           T           T           G           G           C           G           G           C           G           G           G           C           G           G           A           A           -           -           T           T           C           C           T           C  
  | 50           48           51           50           50           48           72           75           78           51           48           54           54           54           54           54           54           54           53           33           48           54           51           52           39           44           52           69   |   |   |   |   |   |   |  | |
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| chr11           chr12  
  | 199356           199359           199368           199377           199378           242811           253007           316656           322663           335190           340150           359605           393438           393438           393438           509993           509994           610650           618236           618237           32902           185062           187139           187424           192416           193483           210774   | -<br>-<br>A<br>T<br>T<br>A<br>T<br>T<br>A<br>A<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>G<br>C<br>C<br>G<br>G<br>C<br>C<br>G<br>G<br>C<br>C<br>G<br>G<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>G<br>A<br>A<br>A<br>A  | T         T         T         A         A         T         A         T         T         T         T         T         T         T         T         T         T         T         T         T         G         G         G         A         -         T         C         G         A         -         T         C         T         T         C         G         A         -         T         C         T         C         T         C         T         T         T         C         T         T         C         T         T         T         T         T <td< td=""><td>30         30           48         51           50         50           51         50           48         72           75         78           51         48           54         54           53         53           54         54           54         54           54         54           54         54           54         54           54         54           54         54           53         53           45         54           54         54           53         94           52         39           44         52           69
        57</td></td<>   | 30         30           48         51           50         50           51         50           48         72           75         78           51         48           54         54           53         53           54         54           54         54           54         54           54         54           54         54           54         54           54         54           53         53           45         54           54         54           53         94           52         39           44         52           69         57   |   |   |   |   |   |   |  |   
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| chr11           chr12  
  | 199356<br>199359<br>199368<br>199377<br>199378<br>242811<br>253006<br>253007<br>316656<br>322663<br>335190<br>340150<br>357929<br>359605<br>393438<br>393439<br>457775<br>463435<br>509993<br>509994<br>610650<br>618237<br>32902<br>185062<br>187139<br>187393<br>187424<br>192416<br>193483<br>210771   | -<br>-<br>A<br>T<br>T<br>A<br>T<br>C<br>A<br>A<br>C<br>C<br>A<br>C<br>C<br>A<br>C<br>C<br>G<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>C<br>A<br>A<br>T<br>T<br>T<br>A<br>A<br>T<br>T<br>A<br>A<br>T<br>T<br>A<br>A<br>T<br>T<br>A<br>A<br>A<br>C<br>A<br>A<br>A<br>C<br>A<br>A<br>A<br>C<br>A<br>A<br>A<br>C<br>A<br>A<br>C<br>A<br>A<br>C<br>A<br>A<br>C<br>A<br>A<br>C<br>A<br>A<br>C<br>A<br>A<br>C<br>C<br>A<br>A<br>C<br>C<br>A<br>A<br>C<br>C<br>A<br>A<br>C<br>C<br>A<br>A<br>C<br>C<br>A<br>A<br>C<br>C<br>A<br>A<br>C<br>C<br>A<br>A<br>C<br>C<br>A<br>A<br>C<br>C<br>A<br>A<br>C<br>C<br>A<br>A<br>C<br>C<br>A<br>A<br>C<br>C<br>A<br>A<br>C<br>C<br>A<br>A<br>C<br>C<br>A<br>A<br>C<br>C<br>A<br>A<br>C<br>C<br>A<br>A<br>C<br>C<br>A<br>A<br>C<br>C<br>A<br>A<br>C<br>C<br>A<br>A<br>C<br>C<br>C<br>A<br>A<br>C<br>C<br>C<br>A<br>A<br>C<br>C<br>C<br>A<br>A<br>C<br>C<br>C<br>C<br>A<br>A<br>C<br>C<br>C<br>A<br>A<br>C<br>C<br>C<br>A<br>A<br>C<br>C<br>C<br>C<br>C<br>C<br>A<br>A<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C  | T         T         T         A         A         T         T         T         T         T         T         T         T         T         T         T         T         T         G         G         C         T         T         G         C         G         A         A         -         -         T         C         T         C         T         C         T         C         T         C         T         C         T         C         T         C         T         C         T         C         T         C         T         C         T         C <td< td=""><td>50           48           51           50           48           71           75           78           51           48           54           45           51           53           53           54     
     53           48           54           51           52           39           44           52           69           57</td></td<>   | 50           48           51           50           48           71           75           78           51           48           54           45           51           53           53           54           53           48           54           51           52           39           44           52           69           57   |   |   |   |   |   |   |  |   
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| chr11           chr12  
  | 199356           199359           199368           199377           199378           242811           253007           316656           322663           335190           340150           359605           393438           393438           457775           463435           479596           509993           509994           610650           618237           32902           185062           187393           187424           192416           193483           210771           426841   | -<br>-<br>A<br>T<br>T<br>A<br>T<br>T<br>A<br>A<br>T<br>C<br>A<br>C<br>A<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>C<br>A<br>A<br>A<br>A   | T         T         T         A         A         T         A         T         T         T         T         T         T         T         T         T         T         T         T         G         G         G         G         A         -         T         C         G         A         -         T         G         G  
  | 50           48           51           50           48           71           75           78           51           48           54           53           48           51           52           39           44           52           69           57           48   |   |   |   |   |   |   |  | |
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| chr11           chr12  
  | 199356           199359           199368           199377           199378           242811           253006           253007           316656           322663           335190           340150           357929           359605           393438           993438           457775           463435           509993           509993           509994           618237           32902           187082           187393           187424           193483           210771           426841           426842  | -<br>-<br>A<br>T<br>T<br>A<br>T<br>C<br>A<br>A<br>C<br>A<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C  | T           T           T           A           A           T           T           T           T           T           T           T           T           T           T           T           T           T           G           G           C           G           G           G           A           -           -           T           G           A           -           T           G           A  
  | 30           48           51           50           48           51           50           48           72           75           78           51           48           54           45           51           53           54           54           54           54           54           54           54           54           54           54           54           54           54           54           54           54           54           54           54           52           39           44           52           69           57           48           54   |   |   |   |   |   |   |  |   |         
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| chr11           chr12  
  | 199356           199359           199368           199377           199378           242811           253007           316656           322663           357929           359605           393438           457775           463435           479596           509994           610650           618237           32902           187082           187393           187424           193483           210771           426841           24216           193483           210771           426842           725938   | -<br>-<br>A<br>T<br>T<br>A<br>T<br>T<br>A<br>A<br>T<br>C<br>A<br>C<br>A<br>C<br>A<br>C<br>A<br>C<br>A<br>C  | T         T         T         A         A         T         T         T         T         T         T         T         T         T         T         T         T         G         G         C         T         T         T         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         A         -         T         G         G         G         G         G         G         G         G         G         G         G         G <td< td=""><td>50           48           51           50           50           48           72           75           78           51           48           54           54           54           52           39           44           52           69           57           48           54           52           60</td></td<>  
  | 50           48           51           50           50           48           72           75           78           51           48           54           54           54           52           39           44           52           69           57           48           54           52           60   |   |   |   |   |   |   |  |   |         
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| chr11           chr12           chr13           chr14           chr15           chr16           chr17           chr12           chr13           chr14           chr15           chr16           chr17      chr17 <td>199356           199359           199368           199377           199378           242811           253006           253007           316656           322663           335190           340150           359605           393438           993438           393439           457775           463435           479596           509993           509993           509993           509993           509993           509993           509993           509993           509993           509993           509993           509993           509993           509993           509993           5062           187139           187393           187424           193483           210771           426841           426842           725938</td> <td>-<br/>-<br/>A<br/>T<br/>T<br/>A<br/>T<br/>C<br/>A<br/>A<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>T         T         T         A         A         T         A         T         T         T         T         T         T         T         T         T         T         T         T         T         G         G         G         A         -         T         G         A         -         T         G         A         -         T         G         A         A         A         A         A         A         A</td> <td>30         30           48         51           50         50           48         72           75         75           78         51           48         54           51         54           53         53           42         54           54         54           54         54           54         54           54         54           54         54           53         44           52         39           44         52           69         57           48         54           54         53           54         54           52         39           44         52           69         57           48         54           54         54           54         54           54         54           54         54           54         54           54         54           54         54</td>  
  | 199356           199359           199368           199377           199378           242811           253006           253007           316656           322663           335190           340150           359605           393438           993438           393439           457775           463435           479596           509993           509993           509993           509993           509993           509993           509993           509993           509993           509993           509993           509993           509993           509993           509993           5062           187139           187393           187424           193483           210771           426841           426842           725938  | -<br>-<br>A<br>T<br>T<br>A<br>T<br>C<br>A<br>A<br>C<br>A<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C  | T         T         T         A         A         T         A         T         T         T         T         T         T         T         T         T         T         T         T         T         G         G         G         A         -         T         G         A         -         T         G         A         -         T         G         A         A         A         A         A         A         A  
  | 30         30           48         51           50         50           48         72           75         75           78         51           48         54           51         54           53         53           42         54           54         54           54         54           54         54           54         54           54         54           53         44           52         39           44         52           69         57           48         54           54         53           54         54           52         39           44         52           69         57           48         54           54         54           54         54           54         54           54         54           54         54           54         54           54         54 |   |   |   |   |   |   |  | |
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| chr11           chr12           chr12 </td <td>199356           199359           199368           199377           199378           242811           253007           316656           322663           35190           340150           359605           393439           457775           463435           509993           509994           610650           618237           32902           187139           187393           187424           192416           193483           210771           426841           725938           750224</td> <td>-<br/>-<br/>A<br/>T<br/>T<br/>A<br/>T<br/>T<br/>A<br/>A<br/>C<br/>A<br/>A<br/>C<br/>A<br/>A<br/>C<br/>C<br/>A<br/>A<br/>C<br/>C<br/>G<br/>C<br/>C<br/>C<br/>G<br/>C<br/>C<br/>C<br/>G<br/>C<br/>C<br/>C<br/>G<br/>C<br/>C<br/>C<br/>G<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>T         T         T         A         A         T         T         T         T         T         T         T         T         T         T         T         T         G         G         C         G         G         C         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         A         -         -         T         G         A         -         -         -         T         G         A         A         T         <td< td=""><td>50           48           51           50           50           48           71           75           78           51           48           54           54           54           54           54           54           52           39           44           52           39           44           52           39           44           52           39           44           52           39           54           57           48           54           57           48           54           57           48           54           54           54           54           54           54           54           54           54           54           54           54</td></td<></td>   
  | 199356           199359           199368           199377           199378           242811           253007           316656           322663           35190           340150           359605           393439           457775           463435           509993           509994           610650           618237           32902           187139           187393           187424           192416           193483           210771           426841           725938           750224  | -<br>-<br>A<br>T<br>T<br>A<br>T<br>T<br>A<br>A<br>C<br>A<br>A<br>C<br>A<br>A<br>C<br>C<br>A<br>A<br>C<br>C<br>G<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C   | T         T         T         A         A         T         T         T         T         T         T         T         T         T         T         T         T         G         G         C         G         G         C         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         A         -         -         T         G         A         -         -         -         T         G         A         A         T <td< td=""><td>50           48           51           50           50           48           71           75           78           51           48           54           54           54           54           54           54           52           39           44           52           39           44           52           39           44           52           39           44           52           39           54           57           48           54           57           48           54           57           48           54           54           54           54           54           54           54           54           54           54           54           54</td></td<>                              
  | 50           48           51           50           50           48           71           75           78           51           48           54           54           54           54           54           54           52           39           44           52           39           44           52           39           44           52           39           44           52           39           54           57           48           54           57           48           54           57           48           54           54           54           54           54           54           54           54           54           54           54           54   |   |   |   |   |   |   |  |   |   
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| chr11           chr12           chr13           chr14           chr15           chr16           chr17           chr17           chr17           chr17           chr17           chr17           chr17      chr17 <td>199356           199359           199368           199377           199378           242811           253007           316656           322663           335190           340150           359605           393438           393438           393439           457775           463435           479596           509993           509993           509993           509993           8185062           185062           187139           187424           193483           210771           426842           725938           750224           762846</td> <td>-<br/>-<br/>-<br/>A<br/>T<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>A<br/>C<br/>A<br/>C<br/>C<br/>C<br/>G<br/>C<br/>C<br/>C<br/>G<br/>C<br/>C<br/>C<br/>G<br/>C<br/>C<br/>C<br/>G<br/>C<br/>C<br/>C<br/>G<br/>C<br/>C<br/>C<br/>G<br/>C<br/>C<br/>C<br/>C<br/>A<br/>A<br/>C<br/>A<br/>A<br/>C<br/>A<br/>C</td> <td>T         T         T         A         A         T         A         T         T         T         T         T         T         T         T         T         T         T         G         G         A         -         T         G         A         -         T         G         A         A         T         T         T         T         T         T         T         T         T         T         T         T</td> <td>30           48           51           50           48           51           50           48           72           78           51           48           54           53           53           42           54           54           54           54           54           54           54           54           54           54           54           53           48           54           53           44           52           39           44           52           69           57           48           54           60           36           84</td>   
  | 199356           199359           199368           199377           199378           242811           253007           316656           322663           335190           340150           359605           393438           393438           393439           457775           463435           479596           509993           509993           509993           509993           8185062           185062           187139           187424           193483           210771           426842           725938           750224           762846  | -<br>-<br>-<br>A<br>T<br>T<br>T<br>A<br>A<br>T<br>C<br>A<br>C<br>A<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>C<br>A<br>A<br>C<br>A<br>A<br>C<br>A<br>C  | T         T         T         A         A         T         A         T         T         T         T         T         T         T         T         T         T         T         G         G         A         -         T         G         A         -         T         G         A         A         T         T         T         T         T         T         T         T         T         T         T         T  
  | 30           48           51           50           48           51           50           48           72           78           51           48           54           53           53           42           54           54           54           54           54           54           54           54           54           54           54           53           48           54           53           44           52           39           44           52           69           57           48           54           60           36           84  |   |   |   |   |   |   |  | |
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   |  |   |  |  |
| chr11           chr12  
  | 199356           199359           199368           199377           199378           242811           253007           316656           322663           335190           340150           359605           393439           457775           463435           509993           509994           618236           618237           32902           187139           187393           187424           192416           193483           210771           426841           725938           750224           762846           767026   | -<br>-<br>A<br>T<br>T<br>A<br>T<br>C<br>A<br>A<br>C<br>A<br>A<br>C<br>A<br>A<br>C<br>C<br>A<br>C<br>C<br>G<br>C<br>C<br>G<br>C<br>C<br>G<br>C<br>C<br>G<br>C<br>C<br>G<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>A<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T   | T         T         T         A         A         T         T         T         T         T         T         T         T         T         T         T         T         G         G         C         T         T         G         G         G         G         G         G         G         G         G         G         G         G         G         A         A         T         C         T         G         A         T         C         T         T         C  
  | 50           48           51           50           48           71           75           78           51           48           54           45           51           53           53           54           55           39           44           52           39           44           52           69           57           48           54           60           36           84           87   |   |   |   |   |   |   |  |   |                         
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| chr11           chr12           chr12 <tr t=""> <tr< td=""><td>199356           199359           199368           199377           199378           199377           199378           242811           253007           316656           322663           335190           340150           357929           359605           393438           457775           463435           479596           509993           509994           610650           618237           32902           187039           187424           192416           193483           210771           426841           426842           725938           750224           762846           767026           767026           767026           767026</td><td>-<br/>-<br/>A<br/>T<br/>T<br/>A<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>A<br/>C<br/>A<br/>C<br/>A<br/>C<br/>C<br/>C<br/>G<br/>C<br/>C<br/>C<br/>G<br/>C<br/>C<br/>C<br/>G<br/>C<br/>C<br/>C<br/>G<br/>C<br/>C<br/>C<br/>G<br/>C<br/>C<br/>C<br/>C<br/>G<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>T         T         T         A         A         T         A         T         T         T         T         T         T         T         T         T         T         T         T         G         G         G         G         A         T         T         G         A         -         T         G         A         T         T         G         A         T         T         C         T         G         A         T         T         T         T         T         T         T         T         T         T         T         T         T         T         <td< td=""><td>50           48           51           50           48           51           50           48           72           75           78           51           48           54           54           54           54           54           54           54           54           54           54           54           54           54           54           54           54           54           52           39           44           52           69           57           48           54           57           48           54           60           36           84</td></td<></td></tr<></tr> <tr><td>chr11           chr11           chr12           chr13  </td><td>199356           199359           199368           199377           199378           242811           253007           316656           322663           335190           340150           359605           393438           457775           463435           509993           509994           618237           32902           187039           187393           187393           187393           187393           187393           762841           426841           426846           760224           762846           767027           782050</td><td>-<br/>-<br/>A<br/>T<br/>T<br/>A<br/>T<br/>C<br/>A<br/>A<br/>C<br/>A<br/>C<br/>A<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>T         T         T         A         A         T         T         T         T         T         T         T         T         T         T         T         T         T         G         G         C         T         T         G         G         A         -         -         T         G         A         A         T         G         A         A         T         G         A         T         G         A         T         G         A         T         G         A         T         G         A         T         G         A         T         G         <td< td=""><td>30           48           51           50           48           71           50           48           72           75           78           51           48           54           45           51           53           54           54           54           54           54           54           54           54           54           54           54           54           54           54           54           55           39           44           52           39           44           52           69           57           48           84           84           84           84</td></td<></td></tr> <tr><td>chr11           chr11           chr12           chr12<!--</td--><td>199356           199359           199368           199377           199378           242811           253007           316656           322663           335190           340150           359605           393438           393439           457775           463435           479596           509994           610650           618237           32902           187092           187393           187393           187393           187424           193483           210771           426841           725938           750224           762846           767026           767026           767026           767026           767026           767026           767026           767026</td><td>-<br/>-<br/>A<br/>T<br/>T<br/>A<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>A<br/>A<br/>C<br/>A<br/>A<br/>T<br/>C<br/>C<br/>G<br/>C<br/>C<br/>C<br/>G<br/>C<br/>C<br/>C<br/>G<br/>C<br/>C<br/>C<br/>G<br/>C<br/>C<br/>C<br/>G<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>T         T         T         A         A         T         A         T         T         T         T         T         T         T         T         T         T         G         G         C         T         T         G         G         G         G         G         G         G         G         A         -         T         G         A         T         G         T         G         T         C         T         G         T         G         T         G         T         G         T         G         T         G         G         T         G         <td< td=""><td>50           48           51           50           48           71           75           78           51           48           54           54           52           39           44           52           69           57           48           54           52           60           36           84           72           60           36           84           72</td></td<></td></td></tr> <tr><td>chr11           chr11           chr12           chr12      <tr t=""> <tr< td=""><td>199356           199359           199368           199377           199378           242811           253006           253007           316656           322663           335190           340150           357929           359605           393438           457775           463435           479596           509993           509993           509993           509993           509993           509993           509993           509993           509993           509993           509993           509993           509993           509993           509993           509993           509993           185062           187139           187393           187424           193483           210771           426841           426842           725938           750224           762846           767027           82</td><td>-<br/>-<br/>A<br/>T<br/>T<br/>A<br/>T<br/>C<br/>A<br/>A<br/>T<br/>C<br/>A<br/>A<br/>T<br/>C<br/>A<br/>A<br/>T<br/>C<br/>G<br/>G<br/>C<br/>C<br/>G<br/>G<br/>C<br/>C<br/>G<br/>G<br/>C<br/>C<br/>G<br/>G<br/>C<br/>C<br/>G<br/>G<br/>C<br/>C<br/>C<br/>G<br/>C<br/>C<br/>C<br/>C<br/>G<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>T         T         T         A         A         T         A         T         T         T         T         T         T         T         T         T         T         T         T         G         G         A         -         T         G         A         A         A         T         G         A         T         T         G         T         T         G         T         T         G         T         T         G         T         T         G         T         T         G         T         T         G         T         T         G         T         <td< td=""><td>30         30           48         51           50         50           48         72           75         78           51         48           54         54           53         53           42         54           54         54           54         54           54         54           54         54           54         54           54         54           53         42           54         54           53         44           52         39           44         52           69         57           48         54           60         36           84         87           84         87           84         87           84         87           84         87           84         87           84         87           84         87           84         87           84         87</td></td<></td></tr<></tr><tr><td>chr11           chr11           chr12           chr12      chr12     <td>199356           199359           199368           199377           199378           242811           253007           316656           322663           335190           340150           359605           393439           457775           463435           509993           509994           610650           618237           32902           187139           187393           187424           192416           193483           210771           426841           725938           750224           767027           822959           828902           878172</td><td>-<br/>-<br/>A<br/>T<br/>T<br/>A<br/>T<br/>T<br/>A<br/>A<br/>C<br/>A<br/>A<br/>C<br/>A<br/>A<br/>C<br/>C<br/>A<br/>A<br/>C<br/>C<br/>G<br/>C<br/>C<br/>C<br/>G<br/>C<br/>C<br/>C<br/>G<br/>C<br/>C<br/>C<br/>C</td><td>T         T         T         A         A         T         T         T         T         T         T         T         T         T         T         T         T         G         G         C         T         T         G         G         G         G         G         G         G         G         G         G         G         A         -         T         G         A         T         T         G         A         T         T         G         T         T         G         A         T         T         G         G         T         T         G         <td< td=""><td>30           48           51           50           50           48           71           75           78           51           48           54           45           51           53           53           54           54           54           54           54           54           54           54           54           54           54           54           54           54           54           52           39           44           52           39           44           52           69           57           48           54           60           36           84           72           66           41</td></td<></td></td></tr><tr><td>chr11           chr11           chr12           chr12      chr12     <td>199356           199359           199368           199377           199378           199377           199378           242811           253007           316656           322663           335190           340150           357929           359605           393438           393438           457775           463435           479596           509993           509994           610650           618237           32902           185062           187393           187424           192416           193483           210771           426841           426842           762846           767026           767026           767026           762846           767027           828902           878172           924691</td><td>-<br/>-<br/>A<br/>T<br/>T<br/>A<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>A<br/>A<br/>C<br/>A<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>G<br/>C<br/>C<br/>G<br/>G<br/>C<br/>C<br/>C<br/>G<br/>G<br/>C<br/>C<br/>C<br/>G<br/>C<br/>C<br/>C<br/>G<br/>C<br/>C<br/>C<br/>C<br/>G<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>T<br/>T<br/>T<br/>T<br/>A<br/>A<br/>T<br/>T<br/>A<br/>A<br/>T<br/>T<br/>T<br/>T<br/>C<br/>G<br/>G<br/>C<br/>C<br/>T<br/>T<br/>T<br/>T<br/>T<br/>T<br/>T<br/>C<br/>C<br/>G<br/>G<br/>C<br/>C<br/>T<br/>T<br/>T<br/>T</td><td>30           48           51           50           48           51           50           48           72           78           51           48           51           53           53           53           54           53           54           54           54           54           54           54           54           54           54           54           53           42           54           53           45           44           52           39           44           52           60           36           84           87           84           72           66           41           63</td></td></tr></td></tr> | 199356           199359           199368           199377           199378           199377           199378           242811           253007           316656           322663           335190           340150           357929           359605           393438           457775           463435           479596           509993           509994           610650           618237           32902           187039           187424           192416           193483           210771           426841           426842           725938           750224           762846           767026           767026           767026           767026  | -<br>-<br>A<br>T<br>T<br>A<br>T<br>T<br>A<br>A<br>T<br>C<br>A<br>C<br>A<br>C<br>A<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C  | T         T         T         A         A         T         A         T         T         T         T         T         T         T         T         T         T         T         T         G         G         G         G         A         T         T         G         A         -         T         G         A         T         T         G         A         T         T         C         T         G         A         T         T         T         T         T         T         T         T         T         T         T         T         T         T <td< td=""><td>50           48           51           50           48           51           50           48           72           75           78           51           48           54           54           54           54           54           54           54           54           54           54           54           54           54           54           54           54           54           52           39           44           52           69           57           48           54           57           48           54           60           36           84</td></td<>   | 50           48           51           50           48           51           50           48           72           75           78           51           48           54           54           54           54           54           54           54           54           54           54           54           54           54           54           54           54           54           52           39           44           52           69           57           48           54           57           48           54           60           36           84   | chr11           chr12           chr13   | 199356           199359           199368           199377           199378           242811           253007           316656           322663           335190           340150           359605           393438           457775           463435           509993           509994           618237           32902           187039           187393           187393           187393           187393           187393           762841           426841           426846           760224           762846           767027           782050                  | -<br>-<br>A<br>T<br>T<br>A<br>T<br>C<br>A<br>A<br>C<br>A<br>C<br>A<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C  | T         T         T         A         A         T         T         T         T         T         T         T         T         T         T         T         T         T         G         G         C         T         T         G         G         A         -         -         T         G         A         A         T         G         A         A         T         G         A         T         G         A         T         G         A         T         G         A         T         G         A         T         G         A         T         G <td< td=""><td>30           48           51           50           48           71           50           48           72           75           78           51           48           54           45           51           53           54           54           54           54           54           54           54           54           54           54           54           54           54           54           54           55           39           44           52           39           44           52           69           57           48           84           84           84           84</td></td<>                           | 30           48           51           50           48           71           50           48           72           75           78           51           48           54           45           51           53           54           54           54           54           54           54           54           54           54           54           54           54           54           54           54           55           39           44           52           39           44           52           69           57           48           84           84           84           84                           | chr11           chr12           chr12 </td <td>199356           199359           199368           199377           199378           242811           253007           316656           322663           335190           340150           359605           393438           393439           457775           463435           479596           509994           610650           618237           32902           187092           187393           187393           187393           187424           193483           210771           426841           725938           750224           762846           767026           767026           767026           767026           767026           767026           767026           767026</td> <td>-<br/>-<br/>A<br/>T<br/>T<br/>A<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>A<br/>A<br/>C<br/>A<br/>A<br/>T<br/>C<br/>C<br/>G<br/>C<br/>C<br/>C<br/>G<br/>C<br/>C<br/>C<br/>G<br/>C<br/>C<br/>C<br/>G<br/>C<br/>C<br/>C<br/>G<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>T         T         T         A         A         T         A         T         T         T         T         T         T         T         T         T         T         G         G         C         T         T         G         G         G         G         G         G         G         G         A         -         T         G         A         T         G         T         G         T         C         T         G         T         G         T         G         T         G         T         G         T         G         G         T         G         <td< td=""><td>50           48           51           50           48           71           75           78           51           48           54           54           52           39           44           52           69           57           48           54           52           60           36           84           72           60           36           84           72</td></td<></td> | 199356           199359           199368           199377           199378           242811           253007           316656           322663           335190           340150           359605           393438           393439           457775           463435           479596           509994           610650           618237           32902           187092           187393           187393           187393           187424           193483           210771           426841           725938           750224           762846           767026           767026           767026           767026           767026           767026           767026           767026                                   | -<br>-<br>A<br>T<br>T<br>A<br>T<br>T<br>A<br>A<br>T<br>C<br>A<br>A<br>C<br>A<br>A<br>T<br>C<br>C<br>G<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C   | T         T         T         A         A         T         A         T         T         T         T         T         T         T         T         T         T         G         G         C         T         T         G         G         G         G         G         G         G         G         A         -         T         G         A         T         G         T         G         T         C         T         G         T         G         T         G         T         G         T         G         T         G         G         T         G <td< td=""><td>50           48           51           50           48           71           75           78           51           48           54           54           52           39           44           52           69           57           48           54           52           60           36           84           72           60           36           84           72</td></td<> | 50           48           51           50           48           71           75           78           51           48           54           54           52           39           44           52           69           57           48           54           52           60           36           84           72           60           36           84           72   | chr11           chr12           chr12 <tr t=""> <tr< td=""><td>199356           199359           199368           199377           199378           242811           253006           253007           316656           322663           335190           340150           357929           359605           393438           457775           463435           479596           509993           509993           509993           509993           509993           509993           509993           509993           509993           509993           509993           509993           509993           509993           509993           509993           509993           185062           187139           187393           187424           193483           210771           426841           426842           725938           750224           762846           767027           82</td><td>-<br/>-<br/>A<br/>T<br/>T<br/>A<br/>T<br/>C<br/>A<br/>A<br/>T<br/>C<br/>A<br/>A<br/>T<br/>C<br/>A<br/>A<br/>T<br/>C<br/>G<br/>G<br/>C<br/>C<br/>G<br/>G<br/>C<br/>C<br/>G<br/>G<br/>C<br/>C<br/>G<br/>G<br/>C<br/>C<br/>G<br/>G<br/>C<br/>C<br/>C<br/>G<br/>C<br/>C<br/>C<br/>C<br/>G<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>T         T         T         A         A         T         A         T         T         T         T         T         T         T         T         T         T         T         T         G         G         A         -         T         G         A         A         A         T         G         A         T         T         G         T         T         G         T         T         G         T         T         G         T         T         G         T         T         G         T         T         G         T         T         G         T         <td< td=""><td>30         30           48         51           50         50           48         72           75         78           51         48           54         54           53         53           42         54           54         54           54         54           54         54           54         54           54         54           54         54           53         42           54         54           53         44           52         39           44         52           69         57           48         54           60         36           84         87           84         87           84         87           84         87           84         87           84         87           84         87           84         87           84         87           84         87</td></td<></td></tr<></tr> <tr><td>chr11           chr11           chr12           chr12      chr12     <td>199356           199359           199368           199377           199378           242811           253007           316656           322663           335190           340150           359605           393439           457775           463435           509993           509994           610650           618237           32902           187139           187393           187424           192416           193483           210771           426841           725938           750224           767027           822959           828902           878172</td><td>-<br/>-<br/>A<br/>T<br/>T<br/>A<br/>T<br/>T<br/>A<br/>A<br/>C<br/>A<br/>A<br/>C<br/>A<br/>A<br/>C<br/>C<br/>A<br/>A<br/>C<br/>C<br/>G<br/>C<br/>C<br/>C<br/>G<br/>C<br/>C<br/>C<br/>G<br/>C<br/>C<br/>C<br/>C</td><td>T         T         T         A         A         T         T         T         T         T         T         T         T         T         T         T         T         G         G         C         T         T         G         G         G         G         G         G         G         G         G         G         G         A         -         T         G         A         T         T         G         A         T         T         G         T         T         G         A         T         T         G         G         T         T         G         <td< td=""><td>30           48           51           50           50           48           71           75           78           51           48           54           45           51           53           53           54           54           54           54           54           54           54           54           54           54           54           54           54           54           54           52           39           44           52           39           44           52           69           57           48           54           60           36           84           72           66           41</td></td<></td></td></tr> <tr><td>chr11           chr11           chr12           chr12      chr12     <td>199356           199359           199368           199377           199378           199377           199378           242811           253007           316656           322663           335190           340150           357929           359605           393438           393438           457775           463435           479596           509993           509994           610650           618237           32902           185062           187393           187424           192416           193483           210771           426841           426842           762846           767026           767026           767026           762846           767027           828902           878172           924691</td><td>-<br/>-<br/>A<br/>T<br/>T<br/>A<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>A<br/>A<br/>C<br/>A<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>G<br/>C<br/>C<br/>G<br/>G<br/>C<br/>C<br/>C<br/>G<br/>G<br/>C<br/>C<br/>C<br/>G<br/>C<br/>C<br/>C<br/>G<br/>C<br/>C<br/>C<br/>C<br/>G<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>T<br/>T<br/>T<br/>T<br/>A<br/>A<br/>T<br/>T<br/>A<br/>A<br/>T<br/>T<br/>T<br/>T<br/>C<br/>G<br/>G<br/>C<br/>C<br/>T<br/>T<br/>T<br/>T<br/>T<br/>T<br/>T<br/>C<br/>C<br/>G<br/>G<br/>C<br/>C<br/>T<br/>T<br/>T<br/>T</td><td>30           48           51           50           48           51           50           48           72           78           51           48           51           53           53           53           54           53           54           54           54           54           54           54           54           54           54           54           53           42           54           53           45           44           52           39           44           52           60           36           84           87           84           72           66           41           63</td></td></tr> | 199356           199359           199368           199377           199378           242811           253006           253007           316656           322663           335190           340150           357929           359605           393438           457775           463435           479596           509993           509993           509993           509993           509993           509993           509993           509993           509993           509993           509993           509993           509993           509993           509993           509993           509993           185062           187139           187393           187424           193483           210771           426841           426842           725938           750224           762846           767027           82 | -<br>-<br>A<br>T<br>T<br>A<br>T<br>C<br>A<br>A<br>T<br>C<br>A<br>A<br>T<br>C<br>A<br>A<br>T<br>C<br>G<br>G<br>C<br>C<br>G<br>G<br>C<br>C<br>G<br>G<br>C<br>C<br>G<br>G<br>C<br>C<br>G<br>G<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C | T         T         T         A         A         T         A         T         T         T         T         T         T         T         T         T         T         T         T         G         G         A         -         T         G         A         A         A         T         G         A         T         T         G         T         T         G         T         T         G         T         T         G         T         T         G         T         T         G         T         T         G         T         T         G         T <td< td=""><td>30         30           48         51           50         50           48         72           75         78           51         48           54         54           53         53           42         54           54         54           54         54           54         54           54         54           54         54           54         54           53         42           54         54           53         44           52         39           44         52           69         57           48         54           60         36           84         87           84         87           84         87           84         87           84         87           84         87           84         87           84         87           84         87           84         87</td></td<> | 30         30           48         51           50         50           48         72           75         78           51         48           54         54           53         53           42         54           54         54           54         54           54         54           54         54           54         54           54         54           53         42           54         54           53         44           52         39           44         52           69         57           48         54           60         36           84         87           84         87           84         87           84         87           84         87           84         87           84         87           84         87           84         87           84         87 | chr11           chr12           chr12      chr12 <td>199356           199359           199368           199377           199378           242811           253007           316656           322663           335190           340150           359605           393439           457775           463435           509993           509994           610650           618237           32902           187139           187393           187424           192416           193483           210771           426841           725938           750224           767027           822959           828902           878172</td> <td>-<br/>-<br/>A<br/>T<br/>T<br/>A<br/>T<br/>T<br/>A<br/>A<br/>C<br/>A<br/>A<br/>C<br/>A<br/>A<br/>C<br/>C<br/>A<br/>A<br/>C<br/>C<br/>G<br/>C<br/>C<br/>C<br/>G<br/>C<br/>C<br/>C<br/>G<br/>C<br/>C<br/>C<br/>C</td> <td>T         T         T         A         A         T         T         T         T         T         T         T         T         T         T         T         T         G         G         C         T         T         G         G         G         G         G         G         G         G         G         G         G         A         -         T         G         A         T         T         G         A         T         T         G         T         T         G         A         T         T         G         G         T         T         G         <td< td=""><td>30           48           51           50           50           48           71           75           78           51           48           54           45           51           53           53           54           54           54           54           54           54           54           54           54           54           54           54           54           54           54           52           39           44           52           39           44           52           69           57           48           54           60           36           84           72           66           41</td></td<></td> | 199356           199359           199368           199377           199378           242811           253007           316656           322663           335190           340150           359605           393439           457775           463435           509993           509994           610650           618237           32902           187139           187393           187424           192416           193483           210771           426841           725938           750224           767027           822959           828902           878172 | -<br>-<br>A<br>T<br>T<br>A<br>T<br>T<br>A<br>A<br>C<br>A<br>A<br>C<br>A<br>A<br>C<br>C<br>A<br>A<br>C<br>C<br>G<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>C | T         T         T         A         A         T         T         T         T         T         T         T         T         T         T         T         T         G         G         C         T         T         G         G         G         G         G         G         G         G         G         G         G         A         -         T         G         A         T         T         G         A         T         T         G         T         T         G         A         T         T         G         G         T         T         G <td< td=""><td>30           48           51           50           50           48           71           75           78           51           48           54           45           51           53           53           54           54           54           54           54           54           54           54           54           54           54           54           54           54           54           52           39           44           52           39           44           52           69           57           48           54           60           36           84           72           66           41</td></td<> | 30           48           51           50           50           48           71           75           78           51           48           54           45           51           53           53           54           54           54           54           54           54           54           54           54           54           54           54           54           54           54           52           39           44           52           39           44           52           69           57           48           54           60           36           84           72           66           41 | chr11           chr12           chr12      chr12 <td>199356           199359           199368           199377           199378           199377           199378           242811           253007           316656           322663           335190           340150           357929           359605           393438           393438           457775           463435           479596           509993           509994           610650           618237           32902           185062           187393           187424           192416           193483           210771           426841           426842           762846           767026           767026           767026           762846           767027           828902           878172           924691</td> <td>-<br/>-<br/>A<br/>T<br/>T<br/>A<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>A<br/>A<br/>C<br/>A<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>G<br/>C<br/>C<br/>G<br/>G<br/>C<br/>C<br/>C<br/>G<br/>G<br/>C<br/>C<br/>C<br/>G<br/>C<br/>C<br/>C<br/>G<br/>C<br/>C<br/>C<br/>C<br/>G<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>T<br/>T<br/>T<br/>T<br/>A<br/>A<br/>T<br/>T<br/>A<br/>A<br/>T<br/>T<br/>T<br/>T<br/>C<br/>G<br/>G<br/>C<br/>C<br/>T<br/>T<br/>T<br/>T<br/>T<br/>T<br/>T<br/>C<br/>C<br/>G<br/>G<br/>C<br/>C<br/>T<br/>T<br/>T<br/>T</td> <td>30           48           51           50           48           51           50           48           72           78           51           48           51           53           53           53           54           53           54           54           54           54           54           54           54           54           54           54           53           42           54           53           45           44           52           39           44           52           60           36           84           87           84           72           66           41           63</td> | 199356           199359           199368           199377           199378           199377           199378           242811           253007           316656           322663           335190           340150           357929           359605           393438           393438           457775           463435           479596           509993           509994           610650           618237           32902           185062           187393           187424           192416           193483           210771           426841           426842           762846           767026           767026           767026           762846           767027           828902           878172           924691 | -<br>-<br>A<br>T<br>T<br>A<br>T<br>T<br>A<br>A<br>T<br>C<br>A<br>A<br>C<br>A<br>A<br>C<br>C<br>A<br>C<br>C<br>G<br>C<br>C<br>G<br>G<br>C<br>C<br>C<br>G<br>G<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C | T<br>T<br>T<br>T<br>A<br>A<br>T<br>T<br>A<br>A<br>T<br>T<br>T<br>T<br>C<br>G<br>G<br>C<br>C<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>C<br>C<br>G<br>G<br>C<br>C<br>T<br>T<br>T<br>T | 30           48           51           50           48           51           50           48           72           78           51           48           51           53           53           53           54           53           54           54           54           54           54           54           54           54           54           54           53           42           54           53           45           44           52           39           44           52           60           36           84           87           84           72           66           41           63 |
| 199356           199359           199368           199377           199378           199377           199378           242811           253007           316656           322663           335190           340150           357929           359605           393438           457775           463435           479596           509993           509994           610650           618237           32902           187039           187424           192416           193483           210771           426841           426842           725938           750224           762846           767026           767026           767026           767026   
  | -<br>-<br>A<br>T<br>T<br>A<br>T<br>T<br>A<br>A<br>T<br>C<br>A<br>C<br>A<br>C<br>A<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C  | T         T         T         A         A         T         A         T         T         T         T         T         T         T         T         T         T         T         T         G         G         G         G         A         T         T         G         A         -         T         G         A         T         T         G         A         T         T         C         T         G         A         T         T         T         T         T         T         T         T         T         T         T         T         T         T <td< td=""><td>50           48           51           50           48           51           50           48           72           75           78           51           48           54           54           54           54           54           54           54           54           54           54           54           54           54           54           54           54           54           52           39           44           52           69           57           48           54           57           48           54           60           36           84</td></td<>   | 50           48           51           50           48           51           50           48           72           75           78           51           48           54           54           54           54           54           54           54           54           54           54           54           54           54           54           54           54           54           52           39           44           52           69           57           48           54           57           48           54           60  
        36           84   |   |   |   |   |   |   |   |  
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  |   |   |   |   |   |   |   |   |   |  
   |  |   |  |  |
| chr11           chr12           chr13  
  | 199356           199359           199368           199377           199378           242811           253007           316656           322663           335190           340150           359605           393438           457775           463435           509993           509994           618237           32902           187039           187393           187393           187393           187393           187393           762841           426841           426846           760224           762846           767027           782050  | -<br>-<br>A<br>T<br>T<br>A<br>T<br>C<br>A<br>A<br>C<br>A<br>C<br>A<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C  | T         T         T         A         A         T         T         T         T         T         T         T         T         T         T         T         T         T         G         G         C         T         T         G         G         A         -         -         T         G         A         A         T         G         A         A         T         G         A         T         G         A         T         G         A         T         G         A         T         G         A         T         G         A         T         G <td< td=""><td>30           48           51           50           48           71           50           48           72           75           78           51           48           54           45           51           53           54           54           54           54           54           54           54           54           54           54           54           54           54           54           54           55           39           44           52           39           44           52           69           57           48           84           84           84           84</td></td<>  
  | 30           48           51           50           48           71           50           48           72           75           78           51           48           54           45           51           53           54           54           54           54           54           54           54           54           54           54           54           54           54           54           54           55           39           44           52           39           44           52           69           57           48           84           84           84           84   |   |   |   |   |   |   |  |   |                         
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  |   |   |   |   |   |   |   |   |   |  
   |  |   |  |  |
| chr11           chr12           chr12 </td <td>199356           199359           199368           199377           199378           242811           253007           316656           322663           335190           340150           359605           393438           393439           457775           463435           479596           509994           610650           618237           32902           187092           187393           187393           187393           187424           193483           210771           426841           725938           750224           762846           767026           767026           767026           767026           767026           767026           767026           767026</td> <td>-<br/>-<br/>A<br/>T<br/>T<br/>A<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>A<br/>A<br/>C<br/>A<br/>A<br/>T<br/>C<br/>C<br/>G<br/>C<br/>C<br/>C<br/>G<br/>C<br/>C<br/>C<br/>G<br/>C<br/>C<br/>C<br/>G<br/>C<br/>C<br/>C<br/>G<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>T         T         T         A         A         T         A         T         T         T         T         T         T         T         T         T         T         G         G         C         T         T         G         G         G         G         G         G         G         G         A         -         T         G         A         T         G         T         G         T         C         T         G         T         G         T         G         T         G         T         G         T         G         G         T         G         <td< td=""><td>50           48           51           50           48           71           75           78           51           48           54           54           52           39           44           52           69           57           48           54           52           60           36           84           72           60           36           84           72</td></td<></td>  
  | 199356           199359           199368           199377           199378           242811           253007           316656           322663           335190           340150           359605           393438           393439           457775           463435           479596           509994           610650           618237           32902           187092           187393           187393           187393           187424           193483           210771           426841           725938           750224           762846           767026           767026           767026           767026           767026           767026           767026           767026  | -<br>-<br>A<br>T<br>T<br>A<br>T<br>T<br>A<br>A<br>T<br>C<br>A<br>A<br>C<br>A<br>A<br>T<br>C<br>C<br>G<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C   | T         T         T         A         A         T         A         T         T         T         T         T         T         T         T         T         T         G         G         C         T         T         G         G         G         G         G         G         G         G         A         -         T         G         A         T         G         T         G         T         C         T         G         T         G         T         G         T         G         T         G         T         G         G         T         G <td< td=""><td>50           48           51           50           48           71           75           78           51           48           54           54           52           39           44           52           69           57           48           54           52           60           36           84           72           60           36           84           72</td></td<>   
  | 50           48           51           50           48           71           75           78           51           48           54           54           52           39           44           52           69           57           48           54           52           60           36           84           72           60           36           84           72  |   |   |   |   |   |   |  |   |   
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  |   |   |   |   |   |   |   |   |   |  
   |  |   |  |  |
| chr11           chr12           chr12 <tr t=""> <tr< td=""><td>199356           199359           199368           199377           199378           242811           253006           253007           316656           322663           335190           340150           357929           359605           393438           457775           463435           479596           509993           509993           509993           509993           509993           509993           509993           509993           509993           509993           509993           509993           509993           509993           509993           509993           509993           185062           187139           187393           187424           193483           210771           426841           426842           725938           750224           762846           767027           82</td><td>-<br/>-<br/>A<br/>T<br/>T<br/>A<br/>T<br/>C<br/>A<br/>A<br/>T<br/>C<br/>A<br/>A<br/>T<br/>C<br/>A<br/>A<br/>T<br/>C<br/>G<br/>G<br/>C<br/>C<br/>G<br/>G<br/>C<br/>C<br/>G<br/>G<br/>C<br/>C<br/>G<br/>G<br/>C<br/>C<br/>G<br/>G<br/>C<br/>C<br/>C<br/>G<br/>C<br/>C<br/>C<br/>C<br/>G<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>T         T         T         A         A         T         A         T         T         T         T         T         T         T         T         T         T         T         T         G         G         A         -         T         G         A         A         A         T         G         A         T         T         G         T         T         G         T         T         G         T         T         G         T         T         G         T         T         G         T         T         G         T         T         G         T         <td< td=""><td>30         30           48         51           50         50           48         72           75         78           51         48           54         54           53         53           42         54           54         54           54         54           54         54           54         54           54         54           54         54           53         42           54         54           53         44           52         39           44         52           69         57           48         54           60         36           84         87           84         87           84         87           84         87           84         87           84         87           84         87           84         87           84         87           84         87</td></td<></td></tr<></tr> <tr><td>chr11           chr11           chr12           chr12      chr12     <td>199356           199359           199368           199377           199378           242811           253007           316656           322663           335190           340150           359605           393439           457775           463435           509993           509994           610650           618237           32902           187139           187393           187424           192416           193483           210771           426841           725938           750224           767027           822959           828902           878172</td><td>-<br/>-<br/>A<br/>T<br/>T<br/>A<br/>T<br/>T<br/>A<br/>A<br/>C<br/>A<br/>A<br/>C<br/>A<br/>A<br/>C<br/>C<br/>A<br/>A<br/>C<br/>C<br/>G<br/>C<br/>C<br/>C<br/>G<br/>C<br/>C<br/>C<br/>G<br/>C<br/>C<br/>C<br/>C</td><td>T         T         T         A         A         T         T         T         T         T         T         T         T         T         T         T         T         G         G         C         T         T         G         G         G         G         G         G         G         G         G         G         G         A         -         T         G         A         T         T         G         A         T         T         G         T         T         G         A         T         T         G         G         T         T         G         <td< td=""><td>30           48           51           50           50           48           71           75           78           51           48           54           45           51           53           53           54           54           54           54           54           54           54           54           54           54           54           54           54           54           54           52           39           44           52           39           44           52           69           57           48           54           60           36           84           72           66           41</td></td<></td></td></tr> <tr><td>chr11           chr11           chr12           chr12      chr12     <td>199356           199359           199368           199377           199378           199377           199378           242811           253007           316656           322663           335190           340150           357929           359605           393438           393438           457775           463435           479596           509993           509994           610650           618237           32902           185062           187393           187424           192416           193483           210771           426841           426842           762846           767026           767026           767026           762846           767027           828902           878172           924691</td><td>-<br/>-<br/>A<br/>T<br/>T<br/>A<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>A<br/>A<br/>C<br/>A<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>G<br/>C<br/>C<br/>G<br/>G<br/>C<br/>C<br/>C<br/>G<br/>G<br/>C<br/>C<br/>C<br/>G<br/>C<br/>C<br/>C<br/>G<br/>C<br/>C<br/>C<br/>C<br/>G<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td><td>T<br/>T<br/>T<br/>T<br/>A<br/>A<br/>T<br/>T<br/>A<br/>A<br/>T<br/>T<br/>T<br/>T<br/>C<br/>G<br/>G<br/>C<br/>C<br/>T<br/>T<br/>T<br/>T<br/>T<br/>T<br/>T<br/>C<br/>C<br/>G<br/>G<br/>C<br/>C<br/>T<br/>T<br/>T<br/>T</td><td>30           48           51           50           48           51           50           48           72           78           51           48           51           53           53           53           54           53           54           54           54           54           54           54           54           54           54           54           53           42           54           53           45           44           52           39           44           52           60           36           84           87           84           72           66           41           63</td></td></tr>   
  | 199356           199359           199368           199377           199378           242811           253006           253007           316656           322663           335190           340150           357929           359605           393438           457775           463435           479596           509993           509993           509993           509993           509993           509993           509993           509993           509993           509993           509993           509993           509993           509993           509993           509993           509993           185062           187139           187393           187424           193483           210771           426841           426842           725938           750224           762846           767027           82 | -<br>-<br>A<br>T<br>T<br>A<br>T<br>C<br>A<br>A<br>T<br>C<br>A<br>A<br>T<br>C<br>A<br>A<br>T<br>C<br>G<br>G<br>C<br>C<br>G<br>G<br>C<br>C<br>G<br>G<br>C<br>C<br>G<br>G<br>C<br>C<br>G<br>G<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C   | T         T         T         A         A         T         A         T         T         T         T         T         T         T         T         T         T         T         T         G         G         A         -         T         G         A         A         A         T         G         A         T         T         G         T         T         G         T         T         G         T         T         G         T         T         G         T         T         G         T         T         G         T         T         G         T <td< td=""><td>30         30           48         51           50         50           48         72           75         78           51         48           54         54           53         53           42         54           54         54           54         54           54         54           54         54           54         54           54         54           53         42           54         54           53         44           52         39           44         52           69         57           48         54           60         36           84         87           84         87           84         87           84         87           84         87           84         87           84         87           84         87           84         87           84         87</td></td<> | 30         30           48         51           50         50           48         72           75         78           51         48           54         54           53         53           42         54           54         54           54         54           54         54           54         54           54         54           54         54           53         42           54         54           53         44           52         39           44         52           69         57           48         54           60         36           84         87           84         87           84         87           84         87           84         87           84         87           84         87           84         87           84         87           84         87 | chr11           chr12           chr12      chr12 <td>199356           199359           199368           199377           199378           242811           253007           316656           322663           335190           340150           359605           393439           457775           463435           509993           509994           610650           618237           32902           187139           187393           187424           192416           193483           210771           426841           725938  
        750224           767027           822959           828902           878172</td> <td>-<br/>-<br/>A<br/>T<br/>T<br/>A<br/>T<br/>T<br/>A<br/>A<br/>C<br/>A<br/>A<br/>C<br/>A<br/>A<br/>C<br/>C<br/>A<br/>A<br/>C<br/>C<br/>G<br/>C<br/>C<br/>C<br/>G<br/>C<br/>C<br/>C<br/>G<br/>C<br/>C<br/>C<br/>C</td> <td>T         T         T         A         A         T         T         T         T         T         T         T         T         T         T         T         T         G         G         C         T         T         G         G         G         G         G         G         G         G         G         G         G         A         -         T         G         A         T         T         G         A         T         T         G         T         T         G         A         T         T         G         G         T         T         G         <td< td=""><td>30           48           51           50           50           48           71           75           78           51           48           54           45           51           53           53           54           54           54           54           54           54           54           54           54           54           54           54           54           54           54           52           39           44           52           39           44           52           69           57           48           54           60           36           84           72           66           41</td></td<></td> | 199356           199359           199368           199377           199378           242811           253007           316656           322663           335190           340150           359605           393439           457775           463435           509993           509994           610650           618237           32902           187139           187393           187424           192416           193483           210771           426841           725938           750224           767027           822959           828902           878172 | -<br>-<br>A<br>T<br>T<br>A<br>T<br>T<br>A<br>A<br>C<br>A<br>A<br>C<br>A<br>A<br>C<br>C<br>A<br>A<br>C<br>C<br>G<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>G<br>C<br>C<br>C<br>C | T         T         T         A         A         T         T         T         T         T         T         T         T         T         T         T         T         G         G         C         T         T         G         G         G         G         G         G         G         G         G         G         G         A         -         T         G         A         T         T         G         A         T         T         G         T         T         G         A         T         T         G         G         T         T         G <td< td=""><td>30           48           51           50           50           48           71           75           78           51           48           54           45           51           53           53           54           54           54           54           54           54           54           54           54           54           54           54           54           54           54           52           39           44           52           39           44           52           69           57           48           54           60           36           84           72           66           41</td></td<> | 30           48           51           50           50           48           71           75           78           51           48           54           45           51           53           53           54           54           54           54           54           54           54           54           54           54           54           54           54           54           54           52           39           44           52           39           44           52           69           57           48           54           60           36           84           72           66           41 | chr11           chr12           chr12      chr12 <td>199356           199359           199368           199377           199378           199377           199378           242811           253007           316656           322663           335190           340150           357929           359605           393438           393438           457775           463435           479596           509993           509994           610650           618237           32902           185062           187393           187424           192416           193483           210771           426841           426842           762846           767026           767026           767026           762846           767027           828902           878172           924691</td> <td>-<br/>-<br/>A<br/>T<br/>T<br/>A<br/>T<br/>T<br/>A<br/>A<br/>T<br/>C<br/>A<br/>A<br/>C<br/>A<br/>A<br/>C<br/>C<br/>A<br/>C<br/>C<br/>G<br/>C<br/>C<br/>G<br/>G<br/>C<br/>C<br/>C<br/>G<br/>G<br/>C<br/>C<br/>C<br/>G<br/>C<br/>C<br/>C<br/>G<br/>C<br/>C<br/>C<br/>C<br/>G<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>T<br/>T<br/>T<br/>T<br/>A<br/>A<br/>T<br/>T<br/>A<br/>A<br/>T<br/>T<br/>T<br/>T<br/>C<br/>G<br/>G<br/>C<br/>C<br/>T<br/>T<br/>T<br/>T<br/>T<br/>T<br/>T<br/>C<br/>C<br/>G<br/>G<br/>C<br/>C<br/>T<br/>T<br/>T<br/>T</td> <td>30           48           51           50           48           51           50           48           72           78           51           48           51           53           53           53           54           53           54           54           54           54           54           54           54           54           54           54           53           42           54           53           45           44           52           39           44           52           60           36           84           87           84           72           66           41           63</td>  | 199356           199359           199368           199377           199378           199377           199378           242811           253007           316656           322663           335190           340150           357929           359605           393438           393438           457775           463435           479596           509993           509994           610650           618237           32902           185062           187393           187424           192416           193483           210771           426841           426842           762846           767026           767026           767026           762846           767027           828902           878172           924691 | 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chr12	1032534	G	-	40
chr12	1038770	С	-	51
chr12	1039433	Т	Α	42
chr13	34473	Т	G	51
chr13	283467	-	G	60
chr13	321234	-	С	54
chr13	448332	G	А	51
chr13	480878	-	С	50
chr13	672128	Т	Č	50
chr13	680935	Т	C	54
chr13	794225	G	Č	36
chr13	808976	A	T	38
chr13	809197	A	G	39
chr13	864682	G	Т	45
chr14	7478	-	т	44
chr14	12086	-	Т	44
chr14	25775	G	^	54
chr14	120270	^	~	47
ohr14	129219	Т	-	<del>4</del> 7
chi 14 obr14	1323/3			57
GIII 14	109001		0	57
chi 14 obr14	109082	G		5/
CIIF14	2/4/32	G		59
CNF14	2/0350	A	G	50
cnr14	278945		G	4/
cnr14	290429		G	5/
chr14	299120	C	G	69
chr14	304165	G	Т	51
chr14	306231	С	A	54
chr14	307728	Т	G	57
chr14	308753	G	С	48
chr14	315278	Т	G	66
chr14	359024	С	Т	50
chr14	374768	А	С	75
chr14	374810	A	С	51
chr14	377889	G	Т	60
chr14	383566	A	G	57
chr14	560911	A	Т	54
chr14	560914	-	А	54
chr14	766523	С	Т	44
chr14	784223	G	Т	93
chr15	8476	-	Т	66
chr15	35765	G	С	42
chr15	36013	Т	Α	42
chr15	36056	G	Α	60
chr15	36119	G	C	36
chr15	36149	G	A	51
chr15	49829	G	Т	60
chr15	50069	G	Т	39
chr15	50081	T	Ċ	45
chr15	50430	G	Ċ	36
chr15	50431	Ğ	č	36
chr15	50767	č	T	54
chr15	56036	č	Ġ	66
chr15	57699	Δ	т	48
chr15	58601	C	G	81
chr15	63708	Ċ	т	54
GIIIG	00100	5	-	54

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chr15	64173	G	С	45
chr15	66022	A	Т	60
chr15	69084	С	Т	45
chr15	79297	С	G	42
chr15	79304	A	Т	63
chr15	79305	Т	A	63
chr15	84121	Т	С	54
chr15	186243	Α	С	48
chr15	186979	G	С	57
chr15	190052	С	G	66
chr15	190053	G	С	69
chr15	210453	Α	С	42
chr15	210486	А	C	44
chr15	219000	-	G	42
chr15	280393	А	G	60
chr15	343142	-	А	66
chr15	389237	Т	G	48
chr15	462780	-	G	53
chr15	570495	А	G	48
chr15	571534	-	Т	51
chr15	588318	-	Т	57
chr15	588362	-	А	36
chr15	611023	G	Т	53
chr15	611024	C	G	53
chr15	611036	A	G	47
chr15	816965	-	Т	51
chr15	874911	С	Т	60
chr15	877795	-	G	51
chr15	889947	G	C	63
chr15	892173	-	Ċ	48
chr15	980884	G	Ă	48
chr15	980884	-	G	48
chr16	128039	т	G	57
chr16	191943	Ċ	Ť	69
chr16	347528	-	G	39
chr16	347759	-	Ċ	84
chr16	520376	-	C C	60
chr16	520378	С	Ğ	60
chr16	523639	č	Т	48
chr16	560302	-	Ť	72
chr16	642955	G	A	51
chr16	642995	č	Т	57
chr16	727933	G	A	54
chr16	759398	Ť	G	54
chr16	769390	-	č	42
chr16	778303	-	Ğ	66
chr16	778377	-	č	66
chr16	778863	т	Δ	49
chr16	819447	-	т	54
chr16	890342	Т	Δ	53
GILLO	030042		~	55

**Table S4.** List of changes to the S288c genome sequence submitted to SGD. Columns are:

chromosome and offset, from the SGD reference of October 2<sup>nd</sup> 2007; SGD nucleotide or gap;

corrected nucleotide or gap; and PHRED quality score of correction.

Lineage	Polymorphic	Polymorphic	Polymorphic	Monomorphic	Monomorphic	Private	% Manamamhia	Number
	Sites	Private	Private but in Mosaics	Private	Private but in Mosaics	51428	Monomorphic	of Strains
Wine/EU	32608	13104	12833	149	24820	40906	85.9	10
North American	681	187	76	8263	3130	11656	99.7	2
Sake	22548	8035	5266	1862	7064	22227	90.2	3
Malaysian	55312	1437	243	20453	4490	26623	76.1	3
West African	57940	147	257	2227	23154	25785	74.9	2
Mosaics	173622	56556	-	0	-	56556	24.9	16
Non- mosaics	175561	57604	-	0	-	57604	24.5	20

**Table S5.** Analysis of SNP distributions among *S. cerevisiae* lineages for the 231117 diallelic sites across the genome.

Species	Population	No. of Strains	Avg. % TE	SD
S. cerevisae	global *	30	1.91	0.611
S. cerevisae	Wine/European **	8	1.32	0.158
S. cerevisae	clean ***	14	1.61	0.542
S. cerevisae	mosaic	16	2.17	0.556
S. paradoxus	global	27	1.57	0.477
S. paradoxus	UK	10	1.39	0.130

**Table S6.** Estimates of Ty transposable element (TE) abundance in *S. cerevisae* and *S. paradoxus* populations. Values are averages and standard deviations (SD) across strains.

\* Excludes 6 potential clonemates: NCYC110, UWOPS03-461.4, UWOPS05-217.3, YPS128,

YJM975, YJM981

\*\* Excludes 2 potential clonemates: YJM975, YJM981

\*\*\* Includes Wine/European strains

	No.	No. sites	No. strains	$\theta_{\pi}$	$\theta_s$	Tajima's
	strains	analysed	per site*	x1000	x1000	D
S. paradoxus (UK)	18	11,116,410	7.17	1.02	1.01	0.10
			(0.06)	(0.03)	(0.02)	(0.03)
S. cerevisiae (global)**	32	11,657,564	14.96	5.65	5.93	-0.23
S. computation			(0.17)	(0.3)	(0.2)	(0.05)
S. cereviside (Wine/European)***	9	8,682,981	5.07 (0.02)	1.04 (0.04)	1.11 (0.05)	-0.55 (0.04)

Table S7. Population genomic estimates of mutational diversity.

Values are averages across the 16 chromosomes; values in parentheses are standard errors.

\*average number of strains per site with a nucleotide with q>40.

\*\* Excluding 6 potential clonemates: NCYC110, UWOPS03-461.4, UWOPS05-217.3, YPS128,

YJM975, YJM981

\*\*\*Excluding 2 potential clonemates, YJM975, YJM981

We have also analysed nucleotide diversity separately for each chromosome. In the global sample of *S*. *cerevisiae* there is a significant negative correlation between the length of the chromosome and the amount of variation, in particular for shorter chromosomes (Kendall's  $\tau = -0.52$ , p=0.008). This appears to be because there is more variation in the subtelomeric regions extending 30kb from each end of each chromosome, and these regions make up a larger proportion of shorter chromosomes. If these regions are excluded, the correlation is no longer significant.

#### Supplementary text

# Strain selection

Strain selection was subject to certain constraints to avoid technical difficulties with sequencing as well as maximize future utility. Except for the laboratory strains S288c, W303 and the baking strains, the isolates selected were diploid. As nearly 10% of *Saccharomyces sensu stricto* isolates appear to be hybrids between different species<sup>56</sup>, we selected strains that behaved as diploid non-hybrids in meiosis and test crosses. We obtained a single spore isolate from the strains in order to avoid the problem of heterozygosity within the diploid genome, which would cause problems with SNP calling and assemblies. Each single spore isolate sequenced, as well as the other three spores from the same meiosis, have been stored and are available at NCYC<sup>71</sup>.

## Strain description

The reference genome was sequenced by a large consortium of laboratories from around the world and various libraries were used from isogenic derivatives of S288c<sup>42</sup>. Individual chromosomes were sequenced at different times. The origins of S288c are described in Johnston and Mortimer<sup>48</sup>. W303 has a chequered past described by Rodney Rothstein in a short document at SGD<sup>72</sup>. S288c is on a long branch of the neighbour-joining tree and therefore has few large blocks similar to any of the clean lineages except for regions similar to the European cluster. W303 is clearly derived from S288c as described and shows numerous recombination breakpoints along the chromosomes compared to S288c. When not similar to S288c it is similar to other lineages studied here in many cases. For example on chromosome 2 on the left arm there is a region similar to the West African lineage while on the right arm there is a region from the European cluster and there are also regions derived from the sake lineage.

The other laboratory strains sequenced here are very interesting as they are widely used in various studies, particularly meiotic recombination studies. SK1 is first mentioned in Kane and Roth<sup>49</sup> but no information is given as to its origins. It has been extensively engineered to make it a useful genetic organism<sup>73</sup>. Y55 is first mentioned by Halvorson<sup>52</sup> where it is attributed to Winge. It has been

extensively engineered for use in genetic studies<sup>74</sup>. SK1 is generally thought to be from North America while Y55 was from a grape in France. Both strains have useful meiotic properties and it is interesting to see that they both are on the West African lineage. They are clearly both recent recombinants with other lineages. The non West African segments of Y55 are mostly derived from the European cluster while those from SK1 are generally unlike any of the clean lineages with the exception of segments from the sake lineage. It may be of interest to note that Roth went through the Halvorson laboratory, where he may have obtained SK1, at the time many sporulation studies were being done with Y55 and other strains.

The clean lineages exhibit varying degrees of similarities with the West African and North American lineages being very similar within while the other lineages, although more similar within, exhibit similarities consistent with the branch lengths in the NJ tree. This is true for the sake, Malaysian and European/Wine cluster lineages. The rest of the strains are mosaics with no large tracts of similarity to the clean lineages or each other. They exhibit many small regions of similarity to many other strains but mostly with the European/Wine cluster. This is consistent with recombination between several lineages sometime in the past.

#### **Genome Assembly**

Reference-based genome assemblies were created for each strain in a series of steps. First, each read was aligned to the reference genome for the relevant species (S288c or CBS432). As this approach cannot deal with large indels or with sequences not present in the reference genome, we developed an iterative <u>parallel alignment assembling tool</u>, PALAS (see Supplementary Methods), to introduce insertions that were allowed to share material between related strains. Two versions of each strain sequence were produced, a partial assembly derived just from data collected from that strain, and a more complete assembly using an imputation process to infer the most likely sequence of the strain taking into account data from related strains. In both cases confidence estimates are given for each base call. Even using PALAS, some sequences such as the subtelomeric regions, which structurally are highly polymorphic<sup>75</sup>, could not be reliably assembled. Because of their extreme AT-richness, the mitochondrial genome sequences are also incomplete.

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The available sequence for the type strain of S. paradoxus<sup>37</sup> is not complete and so we sequenced a single spore isolate from our version of CBS432 to 4.3X coverage with ABI. Although the two sequences are closely related and are part of the same population, there are numerous SNP differences between them. This could be due to the fact that we used a single spore isolate which would not have any heterozygosity, while the assembly created by Kellis  $et al^{37}$  has the other allele at some SNP locations. Alternatively, the difference may come from the strains actually not being the same as they were obtained from separate culture collections (Northern Regional Research Laboratory, NRRL, and Centraalbureau voor Schimmelcultures, CBS). Our version of CBS432 is identical to that in the CBS collection over specific regions of SNP differences confirmed by sequencing of an independent sample from CBS. In order to circumvent this issue, we first produce a S. paradoxus reference sequence with the greatest contiguity by collecting together all the reads from the UK isolates of S. paradoxus, the reads from the Broad project<sup>37</sup>, and artificial reads created by shredding the Broad contigs. We assembled these reads using Phusion<sup>36</sup> into 608 contigs, which we then aligned to the S. cerevisiae reference to place them on chromosomes. We used the resulting sequence as the starting point for the reference-based assemblies for the individual S. paradoxus strains. We later confirm and updated this S. paradoxus reference genome by deep parallel paired-end sequencing producing an 80X coverage of a single, CBS432, isolate. We also aligned this sequence and the contigs for S. bayanus, S. kudriavzevii and S. mikatae (downloaded from SGD<sup>76</sup>) to create cross-species multiple alignments used in subsequent analyses. Further details of both procedures are in the supplementary methods.

## SGD and SGRP discrepancies

We extracted the single-nucleotide differences (including single-base indels) between our (SGRP) version of S288c and the SGD reference. For every such position, we determined whether other strains sequenced at that position (a) all agreed with our version, (b) all agreed with SGD, or (c) were split or absent. We found that for positions where our value had a quality of 35 or more, there was a strong excess of (a) (480 cases) over (b) (18 cases), whereas for quality less than 35, the converse was true (17 (a)s to 81 (b)s for qualities 30 to 34 inclusive). We therefore concluded that the large majority of (a) cases with quality 35 or more were valid corrections, and submitted these to SGD. The (c) cases were

more evenly distributed among different qualities, so that while some of them probably do denote errors in SGD, it is not clear which ones they are, so they were not submitted.

#### Ty element abundance

We estimated the overall level of Ty element abundance for each strain directly from ABI sequencing reads, since a set of dispersed features like Ty elements is sampled proportionally with light shotgun sequencing coverage and because large insertions like Ty elements present a challenge for referencebased genome assembly. The proportion of Ty sequences is typically less than 3% in all strains in both species, with the highest abundance observed in the laboratory strain S288c (3.53%) (Fig. S7). Globally, we find that the proportion of Ty sequence per strain is higher among strains in S. cerevisiae relative to S. paradoxus (Table S6; Wilcoxon Test, p = 0.02275). Interestingly, S. paradoxus strains from South America (UFRJ50791 and UFRJ50816), which are partially reproductively isolated from other S. paradoxus lineages and have been previously known as a separate species (S. cariocanus)<sup>55,77</sup>, have the highest Ty abundance for this species. This correlates well with the increased rate of rearrangement due to reciprocal translocations in the South America S. paradoxus lineage, and supports the hypothesis that a burst of rearrangements occurred in this lineage due to increased Ty activity <sup>78</sup>. Levels of variation in Ty abundance are similar in the Wine/European S. cerevisae population and in the UK S. paradoxus population, and levels of variation in Ty abundance for the global S. cerevisae sample are substantially higher than the Wine/European S. cerevisae population (Table S6). Finally, we find that the mosaic strains of *S. cerevisae* have higher Ty abundance than the clean lineages (Table S6; Wilcoxon Test, p=0.006896), suggesting that hybridization may have led to an increase in Ty element activity in this species.

## rDNA variability

Sequence coverage was sufficient to ensure that each position in the 9.1kb rDNA repeat was covered many times in each strain (average 140). A complete analysis of this dataset is given elsewhere (unpublished) but we report here an interesting correlation between intragenomic rDNA sequence

variation and genome mosaicism (Fig. S6). By comparing the number of rDNA reads against total overall reads (Methods in SI) we estimated rDNA copy number for each S. cerevisiae strain to range between 54 (K11) and 511 (YJM981). The estimates were generally in good agreement with previous estimates<sup>79,80</sup>. The exceptionally high count for strain YJM981 appears to be linked to an unusual karyotype resulting in a much larger than average overall genome size (results not shown). A link between rDNA copy number and genome size has been reported previously<sup>81</sup>. We also investigated the possibility of a link between rDNA copy number and genome mosaicism but found them to be unrelated. However, when polymorphic sites in the rDNA repeats from individual strains were enumerated (Supplementary Methods), mosaic genomes were found to have significantly more variable positions than the clean lineages ( $p=1.3 \times 10^{-6}$  under Mann-Whitney U rank test). We further characterised this variation in terms of number of substitutions per position and found the vast majority of variant sites to be in the 0-10% minor allele frequency range (Fig. S6). In contrast to Ganley and Kobayashi<sup>82</sup> who found only four polymorphic sites in strain RM11-1A, we identified 518 polymorphic sites of which 156 are resolved to a complete SNP (relative to the S288c rDNA consensus sequence) in at least one strain. A possible reason for the increased polymorphism within mosaic strains is that differences in the rDNA sequence between the parents of the mosaic may not have yet been resolved by gene conversion<sup>83</sup>, suggesting the mosaics are relatively recent.

#### Evidence for selection on non-coding regions

Non-coding regions contain many functional sequences including regulatory sequences and non-coding RNA genes. We computed the derived allele frequency spectrum for the SNPs that we identified in non-coding regions (Fig. S8A). We found that there is strong evidence for purifying selection in all classes of non-coding regions in yeast (compared to synonymous sites), and that tRNA genes show a skew in their allele frequency distribution comparable to amino acid altering mutations in protein coding regions.

#### Evidence for selection on synonymous sites

In yeast, genes with high expression levels exhibit high codon bias<sup>84</sup> and this can be measured by the codon-adaptation index (CAI<sup>85</sup>). We computed the derived allele frequency spectrum for the silent polymorphisms in genes with high levels of codon bias (average CAI>0.6) and found an excess of polymorphism at both low and high frequency (Fig. 3B, s\*). This suggests the action of both positive and negative selection on polymorphism at these sites. To test this we identified polymorphisms in which the derived allele was either a preferred or un-preferred codon, as defined by the CAI, and compared their allele frequencies in genes with high codon bias to those in the rest of the genome. Consistent with both positive and negative selection acting on synonymous sites in highly expressed genes, we observe both an excess of low-frequency (DAF<20%) SNPs that created un-preferred codons (38% vs. 51%, p<10<sup>-6</sup>) and an excess of high-frequency (DAF>20%) SNPs that create preferred codons (67% vs. 54%, p<0.01 Fisher's Exact Test). Codon bias in *S. cerevisiae* appears to be maintained by both purifying and positive selection, as suggested by the mutation-selection-drift model<sup>86</sup>.

#### McDonald-Kreitman tests for adaptive evolution

One of the most exciting applications of population genomics is to systematically identify mutations that may have been the targets of positive natural selection that and hence may underlie the adaptive differences between species. Comparisons of divergence to diversity in different classes of sites, such as the McDonald-Kreitman test (M-K<sup>87</sup>) provide a powerful means to do so, and are relatively robust to demographic complexity<sup>88</sup>. The M-K test compares the ratio non-synonymous to synonymous differences in polymorphism to that in divergence. An excess of amino acid differences fixed between species is interpreted as evidence that positive selection has acted to fix the amino acid differences between species. As noted above, there was a large excess of amino-acid replacement polymorphism at low allele frequencies (Fig. S8B, inset), indicating weakly deleterious alleles segregating in the population. We therefore excluded SNPs with minor allele frequency less than 20%<sup>89</sup> and performed McDonald-Kreitman tests on the 1105 genes for which there were at least 5 SNPs, to test the

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hypotheses that there was an excess of fixed amino acid differences between *S. cerevisiae* and *S. paradoxus*. Overall, we found a skew in the distribution of the M-K ratio towards values less than one (Fig. S8b), indicating either pervasive purifying selection on the differences between species, or reduction in the efficacy of selection within the current *S. cerevisiae* population<sup>87</sup>. In the positive tail (M-K ratio>1) of this distribution lie genes enriched for amino-acid changes between species, candidates for adaptive differences. However, none of these were significant after a correction for multiple testing.

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а XVI XV XIV XIII XII XI Х IX VIII VII VI ۷ IV Ш Ш I 500 1000 2000 0 1500 Kb

b

SGD	${\tt GT}{\tt T}{\tt A}{\tt T}{\tt A}{\tt A}{\tt A}{\tt A}{\tt C}{\tt C}{\tt G}{\tt G}{\tt G}{\tt G}{\tt C}{\tt G}{\tt C}{\tt A}{\tt A}{\tt A}{\tt C}{\tt C}{\tt G}{\tt G}{\tt G}{\tt G}{\tt G}{\tt C}{\tt G}{\tt C}{\tt A}{\tt A}{\tt A}{\tt C}{\tt C}{\tt G}{\tt G}{\tt G}{\tt G}{\tt G}{\tt G}{\tt C}{\tt G}{\tt C}{\tt A}{\tt A}{\tt A}{\tt C}{\tt C}{\tt G}{\tt G}{\tt G}{\tt G}{\tt G}{\tt G}{\tt G}{\tt A}{\tt A}{\tt C}{\tt C}{\tt G}{\tt G}{\tt G}{\tt G}{\tt G}{\tt G}{\tt G}{\tt G$
SGRP	GGTATCAATACAACTTTGAACGCCAGAACCTCAATCTTAGCGGCAGCAAATCCGTTGTATGGTAGATAT
RM11	GGTATCAATACAACTTTGAACGCCAGAACCTCAATCTTAGCGGCAGCAAATCCGTTGTATGGTAGATAT
CBS432	GGTATCAATACAACTTTGAACGCCAGAACATCAATCTTAGCGGCAGCAAATCCCTTATATGGTAGATAT

SGD	VINT <b>NPG</b> ARTSILAAANPLYGR <b>I</b>
SGRP	GINTTLNARTSILAAANPLYGRY
S. stricto	GINTTLNARTSILAAANPLYGRY









Figure S4



-0

300

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400

- YPS606

- UWOPS5.227.2

500

600

700

----- DBVPG6765

----- W303

200

Figure S5

Y55

Kbp 0

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100

- Y9

- DBVPG6044



Figure S6



Figure S7





Figure S8







Figure S10