

Tutorial_Human Genome Annotation

1. Introduction

1.1. What is genome annotation?

Over the past years, we have learnt that there are a number of chromosomes and genes in our genome. Counting the number of chromosomes is fairly easy but students might find difficult to say how many genes we have in our genome. If you can get an answer for this, could you tell how many genes encode protein and how many do not?

To answer this question, we need to access the database for gene annotation. Gene annotation is the process of making nucleotide sequence meaningful - where genes are located? whether it is protein-coding or noncoding. If you would like to get an overview of gene annotation, please find this link.

One of well-known collaborative efforts in gene annotation is the GENCODE consortium. It is a part of the Encyclopedia of DNA Elements (The ENCODE project consortium) and aims to identify all gene features in the human genome using a combination of computational analysis, manual annotation, and experimental validation (Harrow et al. 2012). You might find another database for gene annotation, like RefSeq, CCDS, and need to understand differences between them.

In this tutorial, we will access to gene annotation from the GENCODE consortium and explore genes and functional elements in our genome.

1.2. Aims

What we will do with this dataset:

Be familiar with gene annotation modality. Tidy data and create a table for your analysis. Apply tidyverse functions for data munging.

Please note that there is better solution for getting gene annotation in R if you use a biomaRt. Our tutorial is only designed to have a practice on tidyverse exercise.

2. Explore your data

2.1. Unboxing your dataset

This tutorial will use a gene annotation file from the GENCODE. You will need to download the file from the GENCODE. If you are using terminal, please download file using wget:

```
# Run from your terminal, not R console  
# wget ftp://ftp.ebi.ac.uk/pub/databases/gencode/Gencode_human/release_31/gencode.v31.basic.annotation.  
# Once you downloaded the file, you won't need to download it again. So please comment out the command
```

```
# Run from your terminal, not R console
#gzcat gencode.v31.basic.annotation.gtf.gz | head -7
```

The file is the GTF file format, which you will find most commonly in gene annotation. Please read the file format thoroughly in the link above. For the tutorial, we need to load two packages. If the package is not installed in your system, please install it.

tidyverse, a package you have learnt from the chapter 5. readr, a package provides a fast and friendly way to read. Since the file gencode.v31.basic.annotation.gtf.gz is pretty large, you will need some function to load data quickly into your workspace. readr is a part of tidyverse, so you can just load tidyverse to use readr functions.

Let's load the GTF file into your workspace. We will use read_delim function from the readr package. This is much faster loading than read.delim or read.csv from R base. However, please keep in mind that some parameters and output class for read_delim are slightly different from them.

```
library(readr)
library(tidyverse)

## -- Attaching packages ----- tidyverse 1.3.1 --

## v ggplot2 3.3.5      v dplyr    1.0.7
## v tibble  3.1.2      v stringr 1.4.0
## v tidyr   1.1.3      v forcats 0.5.1
## v purrr   0.3.4

## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()     masks stats::lag()

d= read_delim("gencode.v31.basic.annotation.gtf.gz",
delim="\t",skip=5,progress=F,
col_names=F)

## Rows: 1756502 Columns: 9

## -- Column specification -----
## Delimiter: "\t"
## chr (7): X1, X2, X3, X6, X7, X8, X9
## dbl (2): X4, X5

##
## i Use 'spec()' to retrieve the full column specification for this data.
## i Specify the column types or set 'show_col_types = FALSE' to quiet this message.
```

```
View(d)
```

Can you find out what the parameters mean? Few things to note are: The GTF file contains the first few lines for comments (#). In general, the file contains description, provider, date, format.

The GTF file does not have column names so you will need to assign FALSE for col_names.

This is sort of canonical way to load your dataset into R. However, we are using a GTF format, which is specific to gene annotation so we can use a package to specifically handle a GTF file.

Here I introduce the package rtracklayer. Let's install the package first.

```
#if(!requireNamespace("BiocManager",quietly=TRUE))
# install.packages("BiocManager")
#BiocManager::install("rtracklayer")
```

Then, now you can read the GTF file using this package. Then, you can check the class of the object d.

```
d_r=rtracklayer::import("gencode.v31.basic.annotation.gtf.gz")
d_r
```

```
## GRanges object with 1756502 ranges and 21 metadata columns:
##           seqnames      ranges strand |   source      type      score
##           <Rle>      <IRanges> <Rle> | <factor>    <factor> <numeric>
##      [1]      chr1 11869-14409      + |   HAVANA  gene         NA
##      [2]      chr1 11869-14409      + |   HAVANA transcript      NA
##      [3]      chr1 11869-12227      + |   HAVANA  exon         NA
##      [4]      chr1 12613-12721      + |   HAVANA  exon         NA
##      [5]      chr1 13221-14409      + |   HAVANA  exon         NA
##      ...      ...      ...      ... |   ...      ...      ...
## [1756498] chrM 15888-15953      + | ENSEMBL transcript      NA
## [1756499] chrM 15888-15953      + | ENSEMBL  exon         NA
## [1756500] chrM 15956-16023      - | ENSEMBL  gene         NA
## [1756501] chrM 15956-16023      - | ENSEMBL transcript      NA
## [1756502] chrM 15956-16023      - | ENSEMBL  exon         NA
##           phase      gene_id      gene_type  gene_name
##           <integer>    <character>    <character> <character>
##      [1]      <NA> ENSG00000223972.5 transcribed_unproces.. DDX11L1
##      [2]      <NA> ENSG00000223972.5 transcribed_unproces.. DDX11L1
##      [3]      <NA> ENSG00000223972.5 transcribed_unproces.. DDX11L1
##      [4]      <NA> ENSG00000223972.5 transcribed_unproces.. DDX11L1
##      [5]      <NA> ENSG00000223972.5 transcribed_unproces.. DDX11L1
##      ...      ...      ...      ...      ...
## [1756498] <NA> ENSG00000210195.2      Mt_tRNA      MT-TT
## [1756499] <NA> ENSG00000210195.2      Mt_tRNA      MT-TT
## [1756500] <NA> ENSG00000210196.2      Mt_tRNA      MT-TP
## [1756501] <NA> ENSG00000210196.2      Mt_tRNA      MT-TP
## [1756502] <NA> ENSG00000210196.2      Mt_tRNA      MT-TP
##           level      hgnc_id      havana_gene  transcript_id
##           <character> <character>    <character>    <character>
##      [1]      2      HGNC:37102 OTTHUMG00000000961.2      <NA>
##      [2]      2      HGNC:37102 OTTHUMG00000000961.2 ENST00000456328.2
##      [3]      2      HGNC:37102 OTTHUMG00000000961.2 ENST00000456328.2
##      [4]      2      HGNC:37102 OTTHUMG00000000961.2 ENST00000456328.2
##      [5]      2      HGNC:37102 OTTHUMG00000000961.2 ENST00000456328.2
##      ...      ...      ...      ...      ...
## [1756498]      3      HGNC:7499      <NA> ENST00000387460.2
## [1756499]      3      HGNC:7499      <NA> ENST00000387460.2
## [1756500]      3      HGNC:7494      <NA>      <NA>
## [1756501]      3      HGNC:7494      <NA> ENST00000387461.2
## [1756502]      3      HGNC:7494      <NA> ENST00000387461.2
##           transcript_type transcript_name transcript_support_level
##           <character>    <character>    <character>
##      [1]      <NA>      <NA>      <NA>
##      [2]      lncRNA      DDX11L1-202      1
```

```
##      [3]      lncRNA      DDX11L1-202      1
##      [4]      lncRNA      DDX11L1-202      1
##      [5]      lncRNA      DDX11L1-202      1
##      ...      ...      ...      ...
## [1756498]      Mt_tRNA      MT-TT-201      NA
## [1756499]      Mt_tRNA      MT-TT-201      NA
## [1756500]      <NA>      <NA>      <NA>
## [1756501]      Mt_tRNA      MT-TP-201      NA
## [1756502]      Mt_tRNA      MT-TP-201      NA
##      tag      havana_transcript exon_number      exon_id
##      <character>      <character> <character>      <character>
##      [1]      <NA>      <NA>      <NA>      <NA>
##      [2]      basic OTTHUMT00000362751.1      <NA>      <NA>
##      [3]      basic OTTHUMT00000362751.1      1 ENSE00002234944.1
##      [4]      basic OTTHUMT00000362751.1      2 ENSE00003582793.1
##      [5]      basic OTTHUMT00000362751.1      3 ENSE00002312635.1
##      ...      ...      ...      ...
## [1756498]      basic      <NA>      <NA>      <NA>
## [1756499]      basic      <NA>      1 ENSE00001544475.2
## [1756500]      <NA>      <NA>      <NA>      <NA>
## [1756501]      basic      <NA>      <NA>      <NA>
## [1756502]      basic      <NA>      1 ENSE00001544473.2
##      ont      protein_id      ccdsid
##      <character> <character> <character>
##      [1]      <NA>      <NA>      <NA>
##      [2]      <NA>      <NA>      <NA>
##      [3]      <NA>      <NA>      <NA>
##      [4]      <NA>      <NA>      <NA>
##      [5]      <NA>      <NA>      <NA>
##      ...      ...      ...
## [1756498]      <NA>      <NA>      <NA>
## [1756499]      <NA>      <NA>      <NA>
## [1756500]      <NA>      <NA>      <NA>
## [1756501]      <NA>      <NA>      <NA>
## [1756502]      <NA>      <NA>      <NA>
## -----
##      seqinfo: 25 sequences from an unspecified genome; no seqlengths
```

```
View(d_r)
class(d)
```

```
## [1] "spec_tbl_df" "tbl_df"      "tbl"        "data.frame"
```

You will find out that this is GRanges class. This is from the package Genomic Range, specifically dealing with genomic datasets but we are not heading into this in this tutorial. So please find this information if you are serious on this.

We are converting d into a data frame as following:

```
d_r=d_r%>%as.data.frame()
```

Let's overview few lines from the data frame, and explore what you get in this object.

```
head(d_r)
```

```
##      seqnames start    end width strand source      type score phase
## 1      chr1 11869 14409   2541      + HAVANA      gene     NA     NA
## 2      chr1 11869 14409   2541      + HAVANA transcript NA     NA
## 3      chr1 11869 12227    359      + HAVANA      exon     NA     NA
## 4      chr1 12613 12721    109      + HAVANA      exon     NA     NA
## 5      chr1 13221 14409   1189      + HAVANA      exon     NA     NA
## 6      chr1 12010 13670   1661      + HAVANA transcript NA     NA
##           gene_id                gene_type gene_name level
## 1 ENSG00000223972.5 transcribed_unprocessed_pseudogene DDX11L1      2
## 2 ENSG00000223972.5 transcribed_unprocessed_pseudogene DDX11L1      2
## 3 ENSG00000223972.5 transcribed_unprocessed_pseudogene DDX11L1      2
## 4 ENSG00000223972.5 transcribed_unprocessed_pseudogene DDX11L1      2
## 5 ENSG00000223972.5 transcribed_unprocessed_pseudogene DDX11L1      2
## 6 ENSG00000223972.5 transcribed_unprocessed_pseudogene DDX11L1      2
##           hgnc_id      havana_gene      transcript_id
## 1 HGNC:37102 OTTHUMG00000000961.2      <NA>
## 2 HGNC:37102 OTTHUMG00000000961.2 ENST00000456328.2
## 3 HGNC:37102 OTTHUMG00000000961.2 ENST00000456328.2
## 4 HGNC:37102 OTTHUMG00000000961.2 ENST00000456328.2
## 5 HGNC:37102 OTTHUMG00000000961.2 ENST00000456328.2
## 6 HGNC:37102 OTTHUMG00000000961.2 ENST00000450305.2
##           transcript_type transcript_name transcript_support_level
## 1      <NA>      <NA>      <NA>
## 2      lncRNA      DDX11L1-202      1
## 3      lncRNA      DDX11L1-202      1
## 4      lncRNA      DDX11L1-202      1
## 5      lncRNA      DDX11L1-202      1
## 6 transcribed_unprocessed_pseudogene DDX11L1-201      NA
##           tag      havana_transcript exon_number      exon_id      ont
## 1 <NA>      <NA>      <NA>      <NA>      <NA>
## 2 basic OTTHUMT00000362751.1      <NA>      <NA>      <NA>
## 3 basic OTTHUMT00000362751.1      1 ENSE00002234944.1      <NA>
## 4 basic OTTHUMT00000362751.1      2 ENSE00003582793.1      <NA>
## 5 basic OTTHUMT00000362751.1      3 ENSE00002312635.1      <NA>
## 6 basic OTTHUMT00000002844.2      <NA>      <NA> PG0:0000019
##           protein_id ccidsid
## 1      <NA>      <NA>
## 2      <NA>      <NA>
## 3      <NA>      <NA>
## 4      <NA>      <NA>
## 5      <NA>      <NA>
## 6      <NA>      <NA>
```

```
View(d_r)
```

One thing you can find is that there is no columns in the data frame. Let's match which information is provided in columns. You can find the instruction page in the website ([link](#)).

Based on this, you can assign a name for 9 columns. One thing to remember is you should not use space for the column name. Spacing in the column name is actually working but not a good habit for your code. So please replace a space with underscore in the column name.

```
# Assign column names according to the GENCODE instruction.
cols=c("chrom","source","feature_type","start","end","score","strand","phase","info")
```

Now you can set up the column names into the col_names parameter, and load the file into a data frame.

```
d=read_delim("gencode.v31.basic.annotation.gtf.gz",
             delim="\t",skip=5,
             progress=F,
             col_names = cols)
```

```
## Rows: 1756502 Columns: 9
```

```
## -- Column specification -----
## Delimiter: "\t"
## chr (7): chrom, source, feature_type, score, strand, phase, info
## dbl (2): start, end

##
## i Use 'spec()' to retrieve the full column specification for this data.
## i Specify the column types or set 'show_col_types = FALSE' to quiet this message.
```

You can find the column names are now all set.

```
head(d)
```

```
## # A tibble: 6 x 9
##   chrom source feature_type start   end score strand phase info
##   <chr> <chr>  <chr>         <dbl> <dbl> <chr> <chr>  <chr> <chr>
## 1 chr1  HAVANA  gene           11869 14409 .    +    .    "gene_id \"ENSG000000~
## 2 chr1  HAVANA  transcript      11869 14409 .    +    .    "gene_id \"ENSG000000~
## 3 chr1  HAVANA  exon           11869 12227 .    +    .    "gene_id \"ENSG000000~
## 4 chr1  HAVANA  exon           12613 12721 .    +    .    "gene_id \"ENSG000000~
## 5 chr1  HAVANA  exon           13221 14409 .    +    .    "gene_id \"ENSG000000~
## 6 chr1  HAVANA  transcript      12010 13670 .    +    .    "gene_id \"ENSG000000~
```

When you loaded the file, you see the message about the data class. You might want to overview this data.

```
summary(d)
```

```
##      chrom           source      feature_type      start
## Length:1756502  Length:1756502  Length:1756502  Min.   :      577
## Class :character  Class :character  Class :character  1st Qu.: 32101517
## Mode  :character  Mode  :character  Mode  :character  Median : 61732754
##                                     Mean  : 75288563
##                                     3rd Qu.:111760181
##                                     Max.   :248936581
##      end           score      strand      phase
## Min.   :      647  Length:1756502  Length:1756502  Length:1756502
## 1st Qu.: 32107331  Class :character  Class :character  Class :character
## Median : 61738373  Mode  :character  Mode  :character  Mode  :character
```

```
## Mean : 75292632
## 3rd Qu.:111763007
## Max. :248937043
## info
## Length:1756502
## Class :character
## Mode :character
##
##
##
```

2.2. How many feature types in the GENCODE dataset?

As instructed in the GENCODE website, the GENCODE dataset provides a range of annotations for the feature type. You can check feature types using `group_by` function.

```
d%>%
  group_by(feature_type)%>%
  count(feature_type)
```

```
## # A tibble: 8 x 2
## # Groups:   feature_type [8]
##   feature_type      n
##   <chr>          <int>
## 1 CDS            567862
## 2 exon           744835
## 3 gene           60603
## 4 Selenocysteine  96
## 5 start_codon    57886
## 6 stop_codon     57775
## 7 transcript     108243
## 8 UTR            159202
```

```
# table(d$feature_type)
```

How many feature types provided in the GENCODE? And how many items stored for each feature type? Please write down the number of feature types from the dataset. Also, if you are not familiar with these types, it would be good to put one or two sentences that can describe each type).

2.3. How many genes we have?

Let's count the number of genes in our genome. Since we know that the column `feature_type` contains rows with gene, which contains obviously annotations for genes. We might want to subset those rows from the data frame.

```
d1=filter(d,feature_type=="gene")
# d1=d[d$feature_type=="gene"]
```

2.4. Ensembl, Havana and CCDS.

Gene annotation for the human genome is provided by multiple organizations with different gene annotation methods and strategy. This means that information can be varying by resources, and users need to understand heterogeneity inherent in annotation databases.

The GENCODE project utilizes two sources of gene annotation.

1.Havana: Manual gene annotation (detailed strategy in here) 2.Ensembl: Automatic gene annotation (detailed strategy in here)

It provides the combination of Ensembl/HAVANA gene set as the default gene annotation for the human genome. In addition, they also guarantee that all transcripts from the Consensus Coding Sequence (CCDS) set are present in the GENCODE gene set. The CCDS project is a collaborative effort to identify a core set of protein coding regions that are consistently annotated and of high quality. Initial results from the Consensus CDS (CCDS) project are now available through the appropriate Ensembl gene pages and from the CCDS project page at NCBI. The CCDS set is built by consensus among Ensembl, the National Center for Biotechnology Information (NCBI), and the HUGO Gene Nomenclature Committee (HGNC) for human (link).

Right. Then now we count how many genes annotated with HAVANA and ENSEMBL.

```
d%>%
  group_by(source)%>%
  count(source)

## # A tibble: 2 x 2
## # Groups:   source [2]
##   source      n
##   <chr>    <int>
## 1 ENSEMBL  245185
## 2 HAVANA   1511317
```

2.5. do.call

Since the last column info contains a long string for multiple annotations, we will need to split it to extract each annotation. For example, the first line for transcript annotation looks like this:

```
chr1 HAVANA transcript 11869 14409 . + . gene_id "ENSG00000223972.5"; transcript_id "ENST00000456328.2";
gene_type "transcribed_unprocessed_pseudogene"; gene_name "DDX11L1"; transcript_type "lncRNA";
transcript_name "DDX11L1-202"; level 2; transcript_support_level "1"; hgnc_id "HGNC:37102"; tag
"basic"; havana_gene "OTTHUMG00000000961.2"; havana_transcript "OTTHUMT00000362751.1";
```

If you would like to split transcript_support_level and create a new column, you can use strsplit function.

```
a = 'chr1 HAVANA transcript 11869 14409 . + . gene_id "ENSG00000223972.5"; tran
strsplit(a, 'transcript_support_level\\s+')

## [[1]]
## [1] "chr1 HAVANA transcript 11869 14409 . + . gene_id \"ENSG00000223972.5\";
## [2] "1\"; hgnc_id \"HGNC:37102\"; tag \"basic\"; havana_gene \"OTTHUMG00000000961.2\"; havana_transc
```

After split the string, you can select the second item in the list ([[1]][2]).


```
strsplit(a, 'transcript_support_level\\s+')[[1]][2]
```

```
## [1] "1\"; hgnc_id \"HGNC:37102\"; tag \"basic\"; havana_gene \"OTTHUMG00000000961.2\"; havana_transc
```

You can find the 1 in the first position, which you will need to split again.

```
b = strsplit(a, 'transcript_support_level\\s+')[[1]][2]
strsplit(b, '\\')
```

```
## [[1]]
## [1] "1"                "; hgnc_id "        "HGNC:37102"
## [4] "; tag "           "basic"            "; havana_gene "
## [7] "OTTHUMG00000000961.2" "; havana_transcript " "OTTHUMT00000362751.1"
## [10] ";"
```

From this, you will get the first item in the list ([[1]][1]).

Now you would like to apply strsplit function across vectors. For this, do.call function can be easily implemented to strsplit over the vectors from one column. Let's try this.

```
head(do.call(rbind.data.frame, strsplit(a, 'transcript_support_level\\s+'))[[2]])
```

```
## [1] "1\"; hgnc_id \"HGNC:37102\"; tag \"basic\"; havana_gene \"OTTHUMG00000000961.2\"; havana_transc
```

Now you can write two lines of codes to process two steps we discussed above.

```
# First filter transcripts and create a data frame.
d2 <- d %>% filter(feature_type == 'transcript')
View(d)
View(d2)

# Now apply the functions.
d2$transcript_support_level<-
  as.character(do.call(rbind.data.frame, strsplit(d2$info, 'transcript_support_level\\s+'))[[2]])

d2$transcript_support_level<-
  as.character(do.call(rbind.data.frame, strsplit(d2$transcript_support_level, '\\'))[[1]])
```

Now you can check the strsplit works.

```
head(d2$transcript_support_level)
```

```
## [1] "1" "NA" "NA" "NA" "5" "5"
```

You can use the same method to extract other annotations, like gene_id, gene_name etc.

3. Exercises

Here I list the questions for group activity. You will need to pick up one session for three questions for your group. It will be your quiz on the next class. If you have done your session, you can of course go ahead and take other sessions for your practice.

Please note that it is an exercise for tidyverse functions, which you will need to use in your code. In addition, you will need to write an one-line code for each question using pipe %>%.

For questions, you should read some information thoroughly, including:

3.1. Annotation of transcripts in our genome

1. Computes the number of transcripts per gene. What is the mean number of transcripts per gene? What is the quantile (25%, 50%, 75%) for these numbers? Which gene has the greatest number of transcript?

```
my_1<-d_r%>%
  filter(type=="transcript")%>%
  group_by(gene_id)%>%
  count()

my_1%>%
  ungroup()%>%
  summarise(mean=mean(n),
            quantile(n,seq(0,1,0.25)),
            max=gene_id[which.max(n)])
```

```
## # A tibble: 5 x 3
##   mean 'quantile(n, seq(0, 1, 0.25))' max
##   <dbl>                                <dbl> <chr>
## 1  1.79                                1 ENSG00000109339.22
## 2  1.79                                1 ENSG00000109339.22
## 3  1.79                                1 ENSG00000109339.22
## 4  1.79                                2 ENSG00000109339.22
## 5  1.79                                87 ENSG00000109339.22
```

2. Compute the number of transcripts per gene among gene biotypes. For example, compare the number of transcript per gene between protein-coding genes, long noncoding genes, pseudogenes.

```
my_2<-d_r%>%
  filter(type=="transcript")%>%
  group_by(gene_id)%>%
  summarise(n=n(),gene_type=gene_type)
```

'summarise()' has grouped output by 'gene_id'. You can override using the '.groups' argument.

```
my_2%>%
  group_by(gene_type)%>%
  summarise(mean(n),
            "0%"=quantile(n,0),
            "25%"=quantile(n,0.25),
```

```

"50%"=quantile(n,0.5),
"75%"=quantile(n,0.75),
"100%"=quantile(n,1))

```

```

## # A tibble: 40 x 7
##   gene_type      'mean(n)'  '0%' '25%' '50%' '75%' '100%'
##   <chr>          <dbl> <dbl> <dbl> <dbl> <dbl> <dbl>
## 1 IG_C_gene      1         1     1     1     1     1
## 2 IG_C_pseudogene 1         1     1     1     1     1
## 3 IG_D_gene      1         1     1     1     1     1
## 4 IG_J_gene      1         1     1     1     1     1
## 5 IG_J_pseudogene 1         1     1     1     1     1
## 6 IG_pseudogene   1         1     1     1     1     1
## 7 IG_V_gene      1         1     1     1     1     1
## 8 IG_V_pseudogene 1         1     1     1     1     1
## 9 lncRNA         3.17      1     1     1     3    38
## 10 miRNA          1         1     1     1     1     1
## # ... with 30 more rows

```

3. Final task is to compute the number of transcripts per gene per chromosome.

```

my_3<-d_r%>%
  filter(type=="transcript")%>%
  group_by(gene_id)%>%
  summarise(n=n(),seqnames=seqnames)

```

'summarise()' has grouped output by 'gene_id'. You can override using the '.groups' argument.

```

my_3%>%
  group_by(seqnames)%>%
  summarise(mean(n),
    "0%"=quantile(n,0),
    "25%"=quantile(n,0.25),
    "50%"=quantile(n,0.5),
    "75%"=quantile(n,0.75),
    "100%"=quantile(n,1))

```

```

## # A tibble: 25 x 7
##   seqnames 'mean(n)'  '0%' '25%' '50%' '75%' '100%'
##   <fct>    <dbl> <dbl> <dbl> <dbl> <dbl> <dbl>
## 1 chr1      3.58      1     1     2     4    33
## 2 chr2      3.65      1     1     2     5    31
## 3 chr3      4.70      1     1     3     5    39
## 4 chr4      4.89      1     1     2     5    87
## 5 chr5      3.30      1     1     2     4    20
## 6 chr6      3.71      1     1     2     5    34
## 7 chr7      3.56      1     1     2     5    34
## 8 chr8      3.90      1     1     2     5    30
## 9 chr9      3.17      1     1     2     4    17
## 10 chr10     4.32      1     1     2     5    39
## # ... with 15 more rows

```

3.2. Gene length in the GENCODE

1. What is the average length of human genes?

```
d_r%>%
  filter(type=="gene")%>%
  summarise(mean(width))
```

```
##   mean(width)
## 1    32629.02
```

2. Is the distribution of gene length differed by autosomal and sex chromosomes? Please calculate the quantiles (0%, 25%, 50%, 75%, 100%) of the gene length for each group.

```
d_r%>%
  filter(type=="gene" & seqnames%in%c("chrX","chrY"))%>%
  summarise(q=seq(0,1,0.25),sex_distribution=quantile(width,seq(0,1,0.25)))
```

```
##      q sex_distribution
## 1 0.00                48
## 2 0.25               473
## 3 0.50              1912
## 4 0.75             13502
## 5 1.00            2241765
```

```
d_r%>%
  filter(type=="gene" & seqnames%in%c("chrX","chrY","chrM")==FALSE)%>%
  summarise(q=seq(0,1,0.25),autosomal_distribution=quantile(width,seq(0,1,0.25)))
```

```
##      q autosomal_distribution
## 1 0.00                8
## 2 0.25               565
## 3 0.50              3779
## 4 0.75             25813
## 5 1.00            2473537
```

3. Is the distribution of gene length differed by gene biotype? Please calculate the quantiles (0%, 25%, 50%, 75%, 100%) of the gene length for each group.

```
d_r%>%
  filter(type=="gene")%>%
  group_by(gene_type)%>%
  summarise("0%"=quantile(width,0),
            "25%"=quantile(width,0.25),
            "50%"=quantile(width,0.5),
            "75%"=quantile(width,0.75),
            "100%"=quantile(width,1))
```

```
## # A tibble: 40 x 6
##   gene_type      '0%' '25%' '50%' '75%' '100%'
##   <chr>         <dbl> <dbl> <dbl> <dbl> <dbl>
```

```
## 1 IG_C_gene      441  477.  4590.  5479.    8914
## 2 IG_C_pseudogene 248  313   317   734     5211
## 3 IG_D_gene      11   17    20    31       37
## 4 IG_J_gene      33  38.2   49    67.8    176
## 5 IG_J_pseudogene 50  52.5   55    57.5     60
## 6 IG_pseudogene   306  306   306   306     306
## 7 IG_V_gene      294  496.   522   572.   176628
## 8 IG_V_pseudogene 28  271   416.   458.     792
## 9 lncRNA          68 1874.  6272. 24774. 1375317
## 10 miRNA          41   70    80    91      180
## # ... with 30 more rows
```

3.3. Transcript support levels (TSL)

The GENCODE TSL provides a consistent method of evaluating the level of support that a GENCODE transcript annotation is actually expressed in humans.

1. With transcript, how many transcripts are categorized for each TSL?

```
d_r%>%
  filter(type=="transcript")%>%
  group_by(transcript_support_level)%>%
  count()
```

```
## # A tibble: 7 x 2
## # Groups:   transcript_support_level [7]
##   transcript_support_level     n
##   <chr>                  <int>
## 1 1                      31801
## 2 2                      13372
## 3 3                       7228
## 4 4                       2245
## 5 5                      13674
## 6 NA                     27843
## 7 <NA>                   12080
```

2. From the first question, please count the number of transcript for each TSL by gene biotype.

```
d_r%>%
  filter(type=="transcript")%>%
  group_by(gene_type,transcript_support_level)%>%
  summarise(n=n())
```

'summarise()' has grouped output by 'gene_type'. You can override using the '.groups' argument.

```
## # A tibble: 91 x 3
## # Groups:   gene_type [40]
##   gene_type      transcript_support_level     n
##   <chr>          <chr>                  <int>
## 1 IG_C_gene      1                      1
## 2 IG_C_gene      5                      1
```

```
## 3 IG_C_gene      NA      7
## 4 IG_C_gene      <NA>    5
## 5 IG_C_pseudogene NA      9
## 6 IG_D_gene      NA     37
## 7 IG_J_gene      NA     18
## 8 IG_J_pseudogene NA      3
## 9 IG_pseudogene  NA      1
## 10 IG_V_gene     5       3
## # ... with 81 more rows
```

3. From the first question, please count the number of transcript for each TSL by source.

```
d_r%>%
  filter(type=="transcript")%>%
  group_by(source,transcript_support_level)%>%
  summarise(n=n())
```

'summarise()' has grouped output by 'source'. You can override using the '.groups' argument.

```
## # A tibble: 14 x 3
## # Groups:   source [2]
##   source transcript_support_level     n
##   <fct>      <chr>
## 1 HAVANA      1     29434
## 2 HAVANA      2     12052
## 3 HAVANA      3      6964
## 4 HAVANA      4      2116
## 5 HAVANA      5     10157
## 6 HAVANA     NA     19962
## 7 HAVANA    <NA>     11901
## 8 ENSEMBL     1      2367
## 9 ENSEMBL     2      1320
## 10 ENSEMBL     3       264
## 11 ENSEMBL     4       129
## 12 ENSEMBL     5      3517
## 13 ENSEMBL    NA      7881
## 14 ENSEMBL    <NA>       179
```

3.4. CCDS in the GENCODE

1. With gene, please create a data frame with the columns - gene_id, gene_name, hgnc_id, gene_type, chromosome, start, end, and strand. Then, please create new columns for presence of hgnc and ccds. For example, you can put 1 in the column isHgnc, if hgnc annotation is available, or 0 if not. Then, you can put 1 in the column isCCDS, if ccds annotation is available, or 0 if not.

```
my_4<-d_r%>%
  select(gene_id,gene_name,hgnc_id,gene_type,seqnames,start,end,strand)
my_4<-as.data.frame(my_4)

my_4<-my_4%>%
  mutate(isHgnc=(ifelse(is.na(hgnc_id)==TRUE,0,1)),
         isCCDS=(ifelse(is.na(d_r$ccdsid)==TRUE,0,1)))
my_4
```

##	gene_id	gene_name	hgnc_id
## 1	ENSG000000223972.5	DDX11L1	HGNC:37102
## 2	ENSG000000223972.5	DDX11L1	HGNC:37102
## 3	ENSG000000223972.5	DDX11L1	HGNC:37102
## 4	ENSG000000223972.5	DDX11L1	HGNC:37102
## 5	ENSG000000223972.5	DDX11L1	HGNC:37102
## 6	ENSG000000223972.5	DDX11L1	HGNC:37102
## 7	ENSG000000223972.5	DDX11L1	HGNC:37102
## 8	ENSG000000223972.5	DDX11L1	HGNC:37102
## 9	ENSG000000223972.5	DDX11L1	HGNC:37102
## 10	ENSG000000223972.5	DDX11L1	HGNC:37102
## 11	ENSG000000223972.5	DDX11L1	HGNC:37102
## 12	ENSG000000223972.5	DDX11L1	HGNC:37102
## 13	ENSG000000227232.5	WASH7P	HGNC:38034
## 14	ENSG000000227232.5	WASH7P	HGNC:38034
## 15	ENSG000000227232.5	WASH7P	HGNC:38034
## 16	ENSG000000227232.5	WASH7P	HGNC:38034
## 17	ENSG000000227232.5	WASH7P	HGNC:38034
## 18	ENSG000000227232.5	WASH7P	HGNC:38034
## 19	ENSG000000227232.5	WASH7P	HGNC:38034
## 20	ENSG000000227232.5	WASH7P	HGNC:38034
## 21	ENSG000000227232.5	WASH7P	HGNC:38034
## 22	ENSG000000227232.5	WASH7P	HGNC:38034
## 23	ENSG000000227232.5	WASH7P	HGNC:38034
## 24	ENSG000000227232.5	WASH7P	HGNC:38034
## 25	ENSG000000227232.5	WASH7P	HGNC:38034
## 26	ENSG000000278267.1	MIR6859-1	HGNC:50039
## 27	ENSG000000278267.1	MIR6859-1	HGNC:50039
## 28	ENSG000000278267.1	MIR6859-1	HGNC:50039
## 29	ENSG000000243485.5	MIR1302-2HG	HGNC:52482
## 30	ENSG000000243485.5	MIR1302-2HG	HGNC:52482
## 31	ENSG000000243485.5	MIR1302-2HG	HGNC:52482
## 32	ENSG000000243485.5	MIR1302-2HG	HGNC:52482
## 33	ENSG000000243485.5	MIR1302-2HG	HGNC:52482
## 34	ENSG000000243485.5	MIR1302-2HG	HGNC:52482
## 35	ENSG000000243485.5	MIR1302-2HG	HGNC:52482
## 36	ENSG000000243485.5	MIR1302-2HG	HGNC:52482
## 37	ENSG000000284332.1	MIR1302-2	HGNC:35294
## 38	ENSG000000284332.1	MIR1302-2	HGNC:35294
## 39	ENSG000000284332.1	MIR1302-2	HGNC:35294
## 40	ENSG000000237613.2	FAM138A	HGNC:32334
## 41	ENSG000000237613.2	FAM138A	HGNC:32334
## 42	ENSG000000237613.2	FAM138A	HGNC:32334
## 43	ENSG000000237613.2	FAM138A	HGNC:32334
## 44	ENSG000000237613.2	FAM138A	HGNC:32334
## 45	ENSG000000268020.3	OR4G4P	HGNC:14822
## 46	ENSG000000268020.3	OR4G4P	HGNC:14822
## 47	ENSG000000268020.3	OR4G4P	HGNC:14822
## 48	ENSG000000240361.2	OR4G11P	HGNC:31276
## 49	ENSG000000240361.2	OR4G11P	HGNC:31276
## 50	ENSG000000240361.2	OR4G11P	HGNC:31276
## 51	ENSG000000240361.2	OR4G11P	HGNC:31276
## 52	ENSG000000240361.2	OR4G11P	HGNC:31276
## 53	ENSG000000240361.2	OR4G11P	HGNC:31276

## 54	ENSG00000240361.2	OR4G11P	HGNC:31276
## 55	ENSG00000186092.6	OR4F5	HGNC:14825
## 56	ENSG00000186092.6	OR4F5	HGNC:14825
## 57	ENSG00000186092.6	OR4F5	HGNC:14825
## 58	ENSG00000186092.6	OR4F5	HGNC:14825
## 59	ENSG00000186092.6	OR4F5	HGNC:14825
## 60	ENSG00000186092.6	OR4F5	HGNC:14825
## 61	ENSG00000186092.6	OR4F5	HGNC:14825
## 62	ENSG00000186092.6	OR4F5	HGNC:14825
## 63	ENSG00000186092.6	OR4F5	HGNC:14825
## 64	ENSG00000186092.6	OR4F5	HGNC:14825
## 65	ENSG00000186092.6	OR4F5	HGNC:14825
## 66	ENSG00000186092.6	OR4F5	HGNC:14825
## 67	ENSG00000186092.6	OR4F5	HGNC:14825
## 68	ENSG00000186092.6	OR4F5	HGNC:14825
## 69	ENSG00000186092.6	OR4F5	HGNC:14825
## 70	ENSG00000186092.6	OR4F5	HGNC:14825
## 71	ENSG00000186092.6	OR4F5	HGNC:14825
## 72	ENSG00000186092.6	OR4F5	HGNC:14825
## 73	ENSG00000186092.6	OR4F5	HGNC:14825
## 74	ENSG00000238009.6	AL627309.1	<NA>
## 75	ENSG00000238009.6	AL627309.1	<NA>
## 76	ENSG00000238009.6	AL627309.1	<NA>
## 77	ENSG00000238009.6	AL627309.1	<NA>
## 78	ENSG00000238009.6	AL627309.1	<NA>
## 79	ENSG00000238009.6	AL627309.1	<NA>
## 80	ENSG00000238009.6	AL627309.1	<NA>
## 81	ENSG00000238009.6	AL627309.1	<NA>
## 82	ENSG00000238009.6	AL627309.1	<NA>
## 83	ENSG00000238009.6	AL627309.1	<NA>
## 84	ENSG00000238009.6	AL627309.1	<NA>
## 85	ENSG00000239945.1	AL627309.3	<NA>
## 86	ENSG00000239945.1	AL627309.3	<NA>
## 87	ENSG00000239945.1	AL627309.3	<NA>
## 88	ENSG00000239945.1	AL627309.3	<NA>
## 89	ENSG00000233750.3	CICP27	HGNC:48835
## 90	ENSG00000233750.3	CICP27	HGNC:48835
## 91	ENSG00000233750.3	CICP27	HGNC:48835
## 92	ENSG00000268903.1	AL627309.6	<NA>
## 93	ENSG00000268903.1	AL627309.6	<NA>
## 94	ENSG00000268903.1	AL627309.6	<NA>
## 95	ENSG00000269981.1	AL627309.7	<NA>
## 96	ENSG00000269981.1	AL627309.7	<NA>
## 97	ENSG00000269981.1	AL627309.7	<NA>
## 98	ENSG00000239906.1	AL627309.2	<NA>
## 99	ENSG00000239906.1	AL627309.2	<NA>
## 100	ENSG00000239906.1	AL627309.2	<NA>
## 101	ENSG00000239906.1	AL627309.2	<NA>
## 102	ENSG00000241860.7	AL627309.5	<NA>
## 103	ENSG00000241860.7	AL627309.5	<NA>
## 104	ENSG00000241860.7	AL627309.5	<NA>
## 105	ENSG00000241860.7	AL627309.5	<NA>
## 106	ENSG00000241860.7	AL627309.5	<NA>
## 107	ENSG00000241860.7	AL627309.5	<NA>

## 108	ENSG00000241860.7	AL627309.5	<NA>
## 109	ENSG00000241860.7	AL627309.5	<NA>
## 110	ENSG00000241860.7	AL627309.5	<NA>
## 111	ENSG00000241860.7	AL627309.5	<NA>
## 112	ENSG00000241860.7	AL627309.5	<NA>
## 113	ENSG00000241860.7	AL627309.5	<NA>
## 114	ENSG00000241860.7	AL627309.5	<NA>
## 115	ENSG00000241860.7	AL627309.5	<NA>
## 116	ENSG00000241860.7	AL627309.5	<NA>
## 117	ENSG00000241860.7	AL627309.5	<NA>
## 118	ENSG00000241860.7	AL627309.5	<NA>
## 119	ENSG00000222623.1	RNU6-1100P	HGNC:48063
## 120	ENSG00000222623.1	RNU6-1100P	HGNC:48063
## 121	ENSG00000222623.1	RNU6-1100P	HGNC:48063
## 122	ENSG00000241599.1	AL627309.4	<NA>
## 123	ENSG00000241599.1	AL627309.4	<NA>
## 124	ENSG00000241599.1	AL627309.4	<NA>
## 125	ENSG00000241599.1	AL627309.4	<NA>
## 126	ENSG00000279928.2	F0538757.1	<NA>
## 127	ENSG00000279928.2	F0538757.1	<NA>
## 128	ENSG00000279928.2	F0538757.1	<NA>
## 129	ENSG00000279928.2	F0538757.1	<NA>
## 130	ENSG00000279928.2	F0538757.1	<NA>
## 131	ENSG00000279928.2	F0538757.1	<NA>
## 132	ENSG00000279928.2	F0538757.1	<NA>
## 133	ENSG00000279457.4	WASH9P	HGNC:53981
## 134	ENSG00000279457.4	WASH9P	HGNC:53981
## 135	ENSG00000279457.4	WASH9P	HGNC:53981
## 136	ENSG00000279457.4	WASH9P	HGNC:53981
## 137	ENSG00000279457.4	WASH9P	HGNC:53981
## 138	ENSG00000279457.4	WASH9P	HGNC:53981
## 139	ENSG00000279457.4	WASH9P	HGNC:53981
## 140	ENSG00000279457.4	WASH9P	HGNC:53981
## 141	ENSG00000279457.4	WASH9P	HGNC:53981
## 142	ENSG00000279457.4	WASH9P	HGNC:53981
## 143	ENSG00000279457.4	WASH9P	HGNC:53981
## 144	ENSG00000279457.4	WASH9P	HGNC:53981
## 145	ENSG00000273874.1	MIR6859-2	HGNC:49954
## 146	ENSG00000273874.1	MIR6859-2	HGNC:49954
## 147	ENSG00000273874.1	MIR6859-2	HGNC:49954
## 148	ENSG00000228463.10	AP006222.1	<NA>
## 149	ENSG00000228463.10	AP006222.1	<NA>
## 150	ENSG00000228463.10	AP006222.1	<NA>
## 151	ENSG00000228463.10	AP006222.1	<NA>
## 152	ENSG00000228463.10	AP006222.1	<NA>
## 153	ENSG00000228463.10	AP006222.1	<NA>
## 154	ENSG00000228463.10	AP006222.1	<NA>
## 155	ENSG00000228463.10	AP006222.1	<NA>
## 156	ENSG00000228463.10	AP006222.1	<NA>
## 157	ENSG00000228463.10	AP006222.1	<NA>
## 158	ENSG00000228463.10	AP006222.1	<NA>
## 159	ENSG00000286448.1	AP006222.2	<NA>
## 160	ENSG00000286448.1	AP006222.2	<NA>
## 161	ENSG00000286448.1	AP006222.2	<NA>

## 162	ENSG00000286448.1	AP006222.2	<NA>
## 163	ENSG00000236679.2	RPL23AP24	HGNC:36176
## 164	ENSG00000236679.2	RPL23AP24	HGNC:36176
## 165	ENSG00000236679.2	RPL23AP24	HGNC:36176
## 166	ENSG00000236601.2	AL732372.1	<NA>
## 167	ENSG00000236601.2	AL732372.1	<NA>
## 168	ENSG00000236601.2	AL732372.1	<NA>
## 169	ENSG00000236601.2	AL732372.1	<NA>
## 170	ENSG00000237094.12	AL732372.2	<NA>
## 171	ENSG00000237094.12	AL732372.2	<NA>
## 172	ENSG00000237094.12	AL732372.2	<NA>
## 173	ENSG00000237094.12	AL732372.2	<NA>
## 174	ENSG00000237094.12	AL732372.2	<NA>
## 175	ENSG00000237094.12	AL732372.2	<NA>
## 176	ENSG00000237094.12	AL732372.2	<NA>
## 177	ENSG00000237094.12	AL732372.2	<NA>
## 178	ENSG00000237094.12	AL732372.2	<NA>
## 179	ENSG00000237094.12	AL732372.2	<NA>
## 180	ENSG00000237094.12	AL732372.2	<NA>
## 181	ENSG00000269732.1	WBP1LP7	HGNC:43955
## 182	ENSG00000269732.1	WBP1LP7	HGNC:43955
## 183	ENSG00000269732.1	WBP1LP7	HGNC:43955
## 184	ENSG00000284733.1	OR4F29	HGNC:31275
## 185	ENSG00000284733.1	OR4F29	HGNC:31275
## 186	ENSG00000284733.1	OR4F29	HGNC:31275
## 187	ENSG00000284733.1	OR4F29	HGNC:31275
## 188	ENSG00000284733.1	OR4F29	HGNC:31275
## 189	ENSG00000284733.1	OR4F29	HGNC:31275
## 190	ENSG00000284733.1	OR4F29	HGNC:31275
## 191	ENSG00000284733.1	OR4F29	HGNC:31275
## 192	ENSG00000233653.3	CICP7	HGNC:37756
## 193	ENSG00000233653.3	CICP7	HGNC:37756
## 194	ENSG00000233653.3	CICP7	HGNC:37756
## 195	ENSG00000233653.3	CICP7	HGNC:37756
## 196	ENSG00000250575.1	AL732372.3	<NA>
## 197	ENSG00000250575.1	AL732372.3	<NA>
## 198	ENSG00000250575.1	AL732372.3	<NA>
## 199	ENSG00000250575.1	AL732372.3	<NA>
## 200	ENSG00000278757.1	RF00026	<NA>
## 201	ENSG00000278757.1	RF00026	<NA>
## 202	ENSG00000278757.1	RF00026	<NA>
## 203	ENSG00000230021.10	AL669831.3	<NA>
## 204	ENSG00000230021.10	AL669831.3	<NA>
## 205	ENSG00000230021.10	AL669831.3	<NA>
## 206	ENSG00000230021.10	AL669831.3	<NA>
## 207	ENSG00000230021.10	AL669831.3	<NA>
## 208	ENSG00000230021.10	AL669831.3	<NA>
## 209	ENSG00000230021.10	AL669831.3	<NA>
## 210	ENSG00000230021.10	AL669831.3	<NA>
## 211	ENSG00000230021.10	AL669831.3	<NA>
## 212	ENSG00000230021.10	AL669831.3	<NA>
## 213	ENSG00000230021.10	AL669831.3	<NA>
## 214	ENSG00000230021.10	AL669831.3	<NA>
## 215	ENSG00000230021.10	AL669831.3	<NA>

## 216	ENSG00000230021.10	AL669831.3	<NA>
## 217	ENSG00000230021.10	AL669831.3	<NA>
## 218	ENSG00000230021.10	AL669831.3	<NA>
## 219	ENSG00000235146.2	AC114498.1	<NA>
## 220	ENSG00000235146.2	AC114498.1	<NA>
## 221	ENSG00000235146.2	AC114498.1	<NA>
## 222	ENSG00000235146.2	AC114498.1	<NA>
## 223	ENSG00000225972.1	MTND1P23 HGNC:42092	
## 224	ENSG00000225972.1	MTND1P23 HGNC:42092	
## 225	ENSG00000225972.1	MTND1P23 HGNC:42092	
## 226	ENSG00000225630.1	MTND2P28 HGNC:42129	
## 227	ENSG00000225630.1	MTND2P28 HGNC:42129	
## 228	ENSG00000225630.1	MTND2P28 HGNC:42129	
## 229	ENSG00000237973.1	MTC01P12 HGNC:52014	
## 230	ENSG00000237973.1	MTC01P12 HGNC:52014	
## 231	ENSG00000237973.1	MTC01P12 HGNC:52014	
## 232	ENSG00000278791.1	AC114498.2	<NA>
## 233	ENSG00000278791.1	AC114498.2	<NA>
## 234	ENSG00000278791.1	AC114498.2	<NA>
## 235	ENSG00000229344.1	MTC02P12 HGNC:52028	
## 236	ENSG00000229344.1	MTC02P12 HGNC:52028	
## 237	ENSG00000229344.1	MTC02P12 HGNC:52028	
## 238	ENSG00000240409.1	MTATP8P1 HGNC:44571	
## 239	ENSG00000240409.1	MTATP8P1 HGNC:44571	
## 240	ENSG00000240409.1	MTATP8P1 HGNC:44571	
## 241	ENSG00000248527.1	MTATP6P1 HGNC:44575	
## 242	ENSG00000248527.1	MTATP6P1 HGNC:44575	
## 243	ENSG00000248527.1	MTATP6P1 HGNC:44575	
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## 248	ENSG00000268663.1	WBP1LP6 HGNC:43956	
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[illegible]

27

28

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[illegible]

[illegible]

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## 1134	ENSG00000188157.15	AGRN	HGNC:329
## 1135	ENSG00000188157.15	AGRN	HGNC:329
## 1136	ENSG00000188157.15	AGRN	HGNC:329
## 1137	ENSG00000188157.15	AGRN	HGNC:329
## 1138	ENSG00000188157.15	AGRN	HGNC:329
## 1139	ENSG00000188157.15	AGRN	HGNC:329
## 1140	ENSG00000188157.15	AGRN	HGNC:329
## 1141	ENSG00000188157.15	AGRN	HGNC:329
## 1142	ENSG00000188157.15	AGRN	HGNC:329
## 1143	ENSG00000188157.15	AGRN	HGNC:329
## 1144	ENSG00000188157.15	AGRN	HGNC:329
## 1145	ENSG00000188157.15	AGRN	HGNC:329
## 1146	ENSG00000188157.15	AGRN	HGNC:329
## 1147	ENSG00000188157.15	AGRN	HGNC:329
## 1148	ENSG00000188157.15	AGRN	HGNC:329
## 1149	ENSG00000188157.15	AGRN	HGNC:329
## 1150	ENSG00000188157.15	AGRN	HGNC:329
## 1151	ENSG00000188157.15	AGRN	HGNC:329
## 1152	ENSG00000188157.15	AGRN	HGNC:329
## 1153	ENSG00000188157.15	AGRN	HGNC:329
## 1154	ENSG00000188157.15	AGRN	HGNC:329
## 1155	ENSG00000188157.15	AGRN	HGNC:329
## 1156	ENSG00000188157.15	AGRN	HGNC:329
## 1157	ENSG00000188157.15	AGRN	HGNC:329
## 1158	ENSG00000188157.15	AGRN	HGNC:329
## 1159	ENSG00000188157.15	AGRN	HGNC:329
## 1160	ENSG00000188157.15	AGRN	HGNC:329
## 1161	ENSG00000188157.15	AGRN	HGNC:329
## 1162	ENSG00000188157.15	AGRN	HGNC:329
## 1163	ENSG00000188157.15	AGRN	HGNC:329
## 1164	ENSG00000188157.15	AGRN	HGNC:329
## 1165	ENSG00000188157.15	AGRN	HGNC:329
## 1166	ENSG00000188157.15	AGRN	HGNC:329
## 1167	ENSG00000188157.15	AGRN	HGNC:329
## 1168	ENSG00000188157.15	AGRN	HGNC:329
## 1169	ENSG00000188157.15	AGRN	HGNC:329
## 1170	ENSG00000188157.15	AGRN	HGNC:329
## 1171	ENSG00000242590.1	AL645608.5	<NA>
## 1172	ENSG00000242590.1	AL645608.5	<NA>
## 1173	ENSG00000242590.1	AL645608.5	<NA>
## 1174	ENSG00000242590.1	AL645608.5	<NA>
## 1175	ENSG00000217801.10	AL390719.1	<NA>
## 1176	ENSG00000217801.10	AL390719.1	<NA>
## 1177	ENSG00000217801.10	AL390719.1	<NA>
## 1178	ENSG00000217801.10	AL390719.1	<NA>
## 1179	ENSG00000217801.10	AL390719.1	<NA>
## 1180	ENSG00000217801.10	AL390719.1	<NA>
## 1181	ENSG00000217801.10	AL390719.1	<NA>
## 1182	ENSG00000217801.10	AL390719.1	<NA>
## 1183	ENSG00000217801.10	AL390719.1	<NA>
## 1184	ENSG00000217801.10	AL390719.1	<NA>
## 1185	ENSG00000217801.10	AL390719.1	<NA>
## 1186	ENSG00000217801.10	AL390719.1	<NA>
## 1187	ENSG00000217801.10	AL390719.1	<NA>

## 1188	ENSG00000217801.10	AL390719.1	<NA>
## 1189	ENSG00000217801.10	AL390719.1	<NA>
## 1190	ENSG00000217801.10	AL390719.1	<NA>
## 1191	ENSG00000217801.10	AL390719.1	<NA>
## 1192	ENSG00000217801.10	AL390719.1	<NA>
## 1193	ENSG00000273443.1	AL645608.8	<NA>
## 1194	ENSG00000273443.1	AL645608.8	<NA>
## 1195	ENSG00000273443.1	AL645608.8	<NA>
## 1196	ENSG00000273443.1	AL645608.8	<NA>
## 1197	ENSG00000237330.3	RNF223	HGNC:40020
## 1198	ENSG00000237330.3	RNF223	HGNC:40020
## 1199	ENSG00000237330.3	RNF223	HGNC:40020
## 1200	ENSG00000237330.3	RNF223	HGNC:40020
## 1201	ENSG00000237330.3	RNF223	HGNC:40020
## 1202	ENSG00000237330.3	RNF223	HGNC:40020
## 1203	ENSG00000237330.3	RNF223	HGNC:40020
## 1204	ENSG00000237330.3	RNF223	HGNC:40020
## 1205	ENSG00000237330.3	RNF223	HGNC:40020
## 1206	ENSG00000237330.3	RNF223	HGNC:40020
## 1207	ENSG00000131591.17	C1orf159	HGNC:26062
## 1208	ENSG00000131591.17	C1orf159	HGNC:26062
## 1209	ENSG00000131591.17	C1orf159	HGNC:26062
## 1210	ENSG00000131591.17	C1orf159	HGNC:26062
## 1211	ENSG00000131591.17	C1orf159	HGNC:26062
## 1212	ENSG00000131591.17	C1orf159	HGNC:26062
## 1213	ENSG00000131591.17	C1orf159	HGNC:26062
## 1214	ENSG00000131591.17	C1orf159	HGNC:26062
## 1215	ENSG00000131591.17	C1orf159	HGNC:26062
## 1216	ENSG00000131591.17	C1orf159	HGNC:26062
## 1217	ENSG00000131591.17	C1orf159	HGNC:26062
## 1218	ENSG00000131591.17	C1orf159	HGNC:26062
## 1219	ENSG00000131591.17	C1orf159	HGNC:26062
## 1220	ENSG00000131591.17	C1orf159	HGNC:26062
## 1221	ENSG00000131591.17	C1orf159	HGNC:26062
## 1222	ENSG00000131591.17	C1orf159	HGNC:26062
## 1223	ENSG00000131591.17	C1orf159	HGNC:26062
## 1224	ENSG00000131591.17	C1orf159	HGNC:26062
## 1225	ENSG00000131591.17	C1orf159	HGNC:26062
## 1226	ENSG00000131591.17	C1orf159	HGNC:26062
## 1227	ENSG00000131591.17	C1orf159	HGNC:26062
## 1228	ENSG00000131591.17	C1orf159	HGNC:26062
## 1229	ENSG00000131591.17	C1orf159	HGNC:26062
## 1230	ENSG00000131591.17	C1orf159	HGNC:26062
## 1231	ENSG00000131591.17	C1orf159	HGNC:26062
## 1232	ENSG00000131591.17	C1orf159	HGNC:26062
## 1233	ENSG00000131591.17	C1orf159	HGNC:26062
## 1234	ENSG00000131591.17	C1orf159	HGNC:26062
## 1235	ENSG00000131591.17	C1orf159	HGNC:26062
## 1236	ENSG00000131591.17	C1orf159	HGNC:26062
## 1237	ENSG00000131591.17	C1orf159	HGNC:26062
## 1238	ENSG00000131591.17	C1orf159	HGNC:26062
## 1239	ENSG00000131591.17	C1orf159	HGNC:26062
## 1240	ENSG00000131591.17	C1orf159	HGNC:26062
## 1241	ENSG00000131591.17	C1orf159	HGNC:26062

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## 1296	ENSG00000131591.17	C1orf159	HGNC:26062
## 1297	ENSG00000131591.17	C1orf159	HGNC:26062
## 1298	ENSG00000131591.17	C1orf159	HGNC:26062
## 1299	ENSG00000131591.17	C1orf159	HGNC:26062
## 1300	ENSG00000131591.17	C1orf159	HGNC:26062
## 1301	ENSG00000131591.17	C1orf159	HGNC:26062
## 1302	ENSG00000131591.17	C1orf159	HGNC:26062
## 1303	ENSG00000131591.17	C1orf159	HGNC:26062
## 1304	ENSG00000131591.17	C1orf159	HGNC:26062
## 1305	ENSG00000131591.17	C1orf159	HGNC:26062
## 1306	ENSG00000131591.17	C1orf159	HGNC:26062
## 1307	ENSG00000131591.17	C1orf159	HGNC:26062
## 1308	ENSG00000285812.1	AL390719.3	<NA>
## 1309	ENSG00000285812.1	AL390719.3	<NA>
## 1310	ENSG00000285812.1	AL390719.3	<NA>
## 1311	ENSG00000285812.1	AL390719.3	<NA>
## 1312	ENSG00000223823.1	LINC01342	HGNC:50551
## 1313	ENSG00000223823.1	LINC01342	HGNC:50551
## 1314	ENSG00000223823.1	LINC01342	HGNC:50551
## 1315	ENSG00000223823.1	LINC01342	HGNC:50551
## 1316	ENSG00000223823.1	LINC01342	HGNC:50551
## 1317	ENSG00000207730.3	MIR200B	HGNC:31579
## 1318	ENSG00000207730.3	MIR200B	HGNC:31579
## 1319	ENSG00000207730.3	MIR200B	HGNC:31579
## 1320	ENSG00000207607.3	MIR200A	HGNC:31578
## 1321	ENSG00000207607.3	MIR200A	HGNC:31578
## 1322	ENSG00000207607.3	MIR200A	HGNC:31578
## 1323	ENSG00000198976.1	MIR429	HGNC:13784
## 1324	ENSG00000198976.1	MIR429	HGNC:13784
## 1325	ENSG00000198976.1	MIR429	HGNC:13784
## 1326	ENSG00000272141.1	AL390719.2	<NA>
## 1327	ENSG00000272141.1	AL390719.2	<NA>
## 1328	ENSG00000272141.1	AL390719.2	<NA>
## 1329	ENSG00000205231.1	TTLL10-AS1	HGNC:41159
## 1330	ENSG00000205231.1	TTLL10-AS1	HGNC:41159
## 1331	ENSG00000205231.1	TTLL10-AS1	HGNC:41159
## 1332	ENSG00000205231.1	TTLL10-AS1	HGNC:41159
## 1333	ENSG00000162571.13	TTLL10	HGNC:26693
## 1334	ENSG00000162571.13	TTLL10	HGNC:26693
## 1335	ENSG00000162571.13	TTLL10	HGNC:26693
## 1336	ENSG00000162571.13	TTLL10	HGNC:26693
## 1337	ENSG00000162571.13	TTLL10	HGNC:26693
## 1338	ENSG00000162571.13	TTLL10	HGNC:26693
## 1339	ENSG00000162571.13	TTLL10	HGNC:26693
## 1340	ENSG00000162571.13	TTLL10	HGNC:26693
## 1341	ENSG00000162571.13	TTLL10	HGNC:26693
## 1342	ENSG00000162571.13	TTLL10	HGNC:26693
## 1343	ENSG00000162571.13	TTLL10	HGNC:26693
## 1344	ENSG00000162571.13	TTLL10	HGNC:26693
## 1345	ENSG00000162571.13	TTLL10	HGNC:26693
## 1346	ENSG00000162571.13	TTLL10	HGNC:26693
## 1347	ENSG00000162571.13	TTLL10	HGNC:26693
## 1348	ENSG00000162571.13	TTLL10	HGNC:26693
## 1349	ENSG00000162571.13	TTLL10	HGNC:26693

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## 1566	ENSG00000078808.17	SDF4	HGNC:24188
## 1567	ENSG00000078808.17	SDF4	HGNC:24188
## 1568	ENSG00000078808.17	SDF4	HGNC:24188
## 1569	ENSG00000078808.17	SDF4	HGNC:24188
## 1570	ENSG00000078808.17	SDF4	HGNC:24188
## 1571	ENSG00000078808.17	SDF4	HGNC:24188
## 1572	ENSG00000078808.17	SDF4	HGNC:24188
## 1573	ENSG00000078808.17	SDF4	HGNC:24188
## 1574	ENSG00000078808.17	SDF4	HGNC:24188
## 1575	ENSG00000078808.17	SDF4	HGNC:24188
## 1576	ENSG00000078808.17	SDF4	HGNC:24188
## 1577	ENSG00000078808.17	SDF4	HGNC:24188
## 1578	ENSG00000078808.17	SDF4	HGNC:24188
## 1579	ENSG00000078808.17	SDF4	HGNC:24188
## 1580	ENSG000000176022.7	B3GALT6	HGNC:17978
## 1581	ENSG000000176022.7	B3GALT6	HGNC:17978
## 1582	ENSG000000176022.7	B3GALT6	HGNC:17978
## 1583	ENSG000000176022.7	B3GALT6	HGNC:17978
## 1584	ENSG000000176022.7	B3GALT6	HGNC:17978
## 1585	ENSG000000176022.7	B3GALT6	HGNC:17978
## 1586	ENSG000000176022.7	B3GALT6	HGNC:17978
## 1587	ENSG000000176022.7	B3GALT6	HGNC:17978
## 1588	ENSG000000184163.3	C1QTNF12	HGNC:32308
## 1589	ENSG000000184163.3	C1QTNF12	HGNC:32308
## 1590	ENSG000000184163.3	C1QTNF12	HGNC:32308
## 1591	ENSG000000184163.3	C1QTNF12	HGNC:32308
## 1592	ENSG000000184163.3	C1QTNF12	HGNC:32308
## 1593	ENSG000000184163.3	C1QTNF12	HGNC:32308
## 1594	ENSG000000184163.3	C1QTNF12	HGNC:32308
## 1595	ENSG000000184163.3	C1QTNF12	HGNC:32308
## 1596	ENSG000000184163.3	C1QTNF12	HGNC:32308
## 1597	ENSG000000184163.3	C1QTNF12	HGNC:32308
## 1598	ENSG000000184163.3	C1QTNF12	HGNC:32308
## 1599	ENSG000000184163.3	C1QTNF12	HGNC:32308
## 1600	ENSG000000184163.3	C1QTNF12	HGNC:32308
## 1601	ENSG000000184163.3	C1QTNF12	HGNC:32308
## 1602	ENSG000000184163.3	C1QTNF12	HGNC:32308
## 1603	ENSG000000184163.3	C1QTNF12	HGNC:32308
## 1604	ENSG000000184163.3	C1QTNF12	HGNC:32308
## 1605	ENSG000000184163.3	C1QTNF12	HGNC:32308
## 1606	ENSG000000184163.3	C1QTNF12	HGNC:32308
## 1607	ENSG000000184163.3	C1QTNF12	HGNC:32308
## 1608	ENSG000000184163.3	C1QTNF12	HGNC:32308
## 1609	ENSG000000184163.3	C1QTNF12	HGNC:32308
## 1610	ENSG000000260179.1	AL162741.1	<NA>
## 1611	ENSG000000260179.1	AL162741.1	<NA>
## 1612	ENSG000000260179.1	AL162741.1	<NA>
## 1613	ENSG000000160087.20	UBE2J2	HGNC:19268
## 1614	ENSG000000160087.20	UBE2J2	HGNC:19268
## 1615	ENSG000000160087.20	UBE2J2	HGNC:19268
## 1616	ENSG000000160087.20	UBE2J2	HGNC:19268
## 1617	ENSG000000160087.20	UBE2J2	HGNC:19268
## 1618	ENSG000000160087.20	UBE2J2	HGNC:19268
## 1619	ENSG000000160087.20	UBE2J2	HGNC:19268

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## 1674	ENSG00000160087.20	UBE2J2 HGNC:19268
## 1675	ENSG00000160087.20	UBE2J2 HGNC:19268
## 1676	ENSG00000160087.20	UBE2J2 HGNC:19268
## 1677	ENSG00000160087.20	UBE2J2 HGNC:19268
## 1678	ENSG00000160087.20	UBE2J2 HGNC:19268
## 1679	ENSG00000160087.20	UBE2J2 HGNC:19268
## 1680	ENSG00000160087.20	UBE2J2 HGNC:19268
## 1681	ENSG00000160087.20	UBE2J2 HGNC:19268
## 1682	ENSG00000160087.20	UBE2J2 HGNC:19268
## 1683	ENSG00000160087.20	UBE2J2 HGNC:19268
## 1684	ENSG00000160087.20	UBE2J2 HGNC:19268
## 1685	ENSG00000160087.20	UBE2J2 HGNC:19268
## 1686	ENSG00000160087.20	UBE2J2 HGNC:19268
## 1687	ENSG00000160087.20	UBE2J2 HGNC:19268
## 1688	ENSG00000160087.20	UBE2J2 HGNC:19268
## 1689	ENSG00000160087.20	UBE2J2 HGNC:19268
## 1690	ENSG00000160087.20	UBE2J2 HGNC:19268
## 1691	ENSG00000160087.20	UBE2J2 HGNC:19268
## 1692	ENSG00000160087.20	UBE2J2 HGNC:19268
## 1693	ENSG00000160087.20	UBE2J2 HGNC:19268
## 1694	ENSG00000160087.20	UBE2J2 HGNC:19268
## 1695	ENSG00000160087.20	UBE2J2 HGNC:19268
## 1696	ENSG00000160087.20	UBE2J2 HGNC:19268
## 1697	ENSG00000160087.20	UBE2J2 HGNC:19268
## 1698	ENSG00000160087.20	UBE2J2 HGNC:19268
## 1699	ENSG00000160087.20	UBE2J2 HGNC:19268
## 1700	ENSG00000160087.20	UBE2J2 HGNC:19268
## 1701	ENSG00000160087.20	UBE2J2 HGNC:19268
## 1702	ENSG00000160087.20	UBE2J2 HGNC:19268
## 1703	ENSG00000160087.20	UBE2J2 HGNC:19268
## 1704	ENSG00000160087.20	UBE2J2 HGNC:19268
## 1705	ENSG00000160087.20	UBE2J2 HGNC:19268
## 1706	ENSG00000230415.1	LINC01786 HGNC:52575
## 1707	ENSG00000230415.1	LINC01786 HGNC:52575
## 1708	ENSG00000230415.1	LINC01786 HGNC:52575
## 1709	ENSG00000230415.1	LINC01786 HGNC:52575
## 1710	ENSG00000230415.1	LINC01786 HGNC:52575
## 1711	ENSG00000230415.1	LINC01786 HGNC:52575
## 1712	ENSG00000230415.1	LINC01786 HGNC:52575
## 1713	ENSG00000230415.1	LINC01786 HGNC:52575
## 1714	ENSG00000162572.20	SCNN1D HGNC:10601
## 1715	ENSG00000162572.20	SCNN1D HGNC:10601
## 1716	ENSG00000162572.20	SCNN1D HGNC:10601
## 1717	ENSG00000162572.20	SCNN1D HGNC:10601
## 1718	ENSG00000162572.20	SCNN1D HGNC:10601
## 1719	ENSG00000162572.20	SCNN1D HGNC:10601
## 1720	ENSG00000162572.20	SCNN1D HGNC:10601
## 1721	ENSG00000162572.20	SCNN1D HGNC:10601
## 1722	ENSG00000162572.20	SCNN1D HGNC:10601
## 1723	ENSG00000162572.20	SCNN1D HGNC:10601
## 1724	ENSG00000162572.20	SCNN1D HGNC:10601
## 1725	ENSG00000162572.20	SCNN1D HGNC:10601
## 1726	ENSG00000162572.20	SCNN1D HGNC:10601
## 1727	ENSG00000162572.20	SCNN1D HGNC:10601

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## 1944 ENSG00000131584.19	ACAP3 HGNC:16754
## 1945 ENSG00000131584.19	ACAP3 HGNC:16754
## 1946 ENSG00000131584.19	ACAP3 HGNC:16754
## 1947 ENSG00000131584.19	ACAP3 HGNC:16754
## 1948 ENSG00000131584.19	ACAP3 HGNC:16754
## 1949 ENSG00000131584.19	ACAP3 HGNC:16754
## 1950 ENSG00000131584.19	ACAP3 HGNC:16754
## 1951 ENSG00000131584.19	ACAP3 HGNC:16754
## 1952 ENSG00000131584.19	ACAP3 HGNC:16754
## 1953 ENSG00000131584.19	ACAP3 HGNC:16754
## 1954 ENSG00000131584.19	ACAP3 HGNC:16754
## 1955 ENSG00000131584.19	ACAP3 HGNC:16754
## 1956 ENSG00000131584.19	ACAP3 HGNC:16754
## 1957 ENSG00000131584.19	ACAP3 HGNC:16754
## 1958 ENSG00000131584.19	ACAP3 HGNC:16754
## 1959 ENSG00000131584.19	ACAP3 HGNC:16754
## 1960 ENSG00000131584.19	ACAP3 HGNC:16754
## 1961 ENSG00000131584.19	ACAP3 HGNC:16754
## 1962 ENSG00000131584.19	ACAP3 HGNC:16754
## 1963 ENSG00000278073.1	MIR6726 HGNC:50009
## 1964 ENSG00000278073.1	MIR6726 HGNC:50009
## 1965 ENSG00000278073.1	MIR6726 HGNC:50009
## 1966 ENSG00000169972.12	PUSL1 HGNC:26914
## 1967 ENSG00000169972.12	PUSL1 HGNC:26914
## 1968 ENSG00000169972.12	PUSL1 HGNC:26914
## 1969 ENSG00000169972.12	PUSL1 HGNC:26914
## 1970 ENSG00000169972.12	PUSL1 HGNC:26914
## 1971 ENSG00000169972.12	PUSL1 HGNC:26914
## 1972 ENSG00000169972.12	PUSL1 HGNC:26914
## 1973 ENSG00000169972.12	PUSL1 HGNC:26914
## 1974 ENSG00000169972.12	PUSL1 HGNC:26914
## 1975 ENSG00000169972.12	PUSL1 HGNC:26914
## 1976 ENSG00000169972.12	PUSL1 HGNC:26914
## 1977 ENSG00000169972.12	PUSL1 HGNC:26914
## 1978 ENSG00000169972.12	PUSL1 HGNC:26914
## 1979 ENSG00000169972.12	PUSL1 HGNC:26914
## 1980 ENSG00000169972.12	PUSL1 HGNC:26914
## 1981 ENSG00000169972.12	PUSL1 HGNC:26914
## 1982 ENSG00000169972.12	PUSL1 HGNC:26914
## 1983 ENSG00000169972.12	PUSL1 HGNC:26914
## 1984 ENSG00000169972.12	PUSL1 HGNC:26914
## 1985 ENSG00000169972.12	PUSL1 HGNC:26914
## 1986 ENSG00000169972.12	PUSL1 HGNC:26914
## 1987 ENSG00000169972.12	PUSL1 HGNC:26914
## 1988 ENSG00000127054.20	INTS11 HGNC:26052
## 1989 ENSG00000127054.20	INTS11 HGNC:26052
## 1990 ENSG00000127054.20	INTS11 HGNC:26052
## 1991 ENSG00000127054.20	INTS11 HGNC:26052
## 1992 ENSG00000127054.20	INTS11 HGNC:26052
## 1993 ENSG00000127054.20	INTS11 HGNC:26052
## 1994 ENSG00000127054.20	INTS11 HGNC:26052
## 1995 ENSG00000127054.20	INTS11 HGNC:26052
## 1996 ENSG00000127054.20	INTS11 HGNC:26052
## 1997 ENSG00000127054.20	INTS11 HGNC:26052

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[illegible]

[illegible]

[illegible]

[illegible]

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## 2322	ENSG00000127054.20	INTS11	HGNC:26052
## 2323	ENSG00000127054.20	INTS11	HGNC:26052
## 2324	ENSG00000127054.20	INTS11	HGNC:26052
## 2325	ENSG00000127054.20	INTS11	HGNC:26052
## 2326	ENSG00000127054.20	INTS11	HGNC:26052
## 2327	ENSG00000127054.20	INTS11	HGNC:26052
## 2328	ENSG00000127054.20	INTS11	HGNC:26052
## 2329	ENSG00000127054.20	INTS11	HGNC:26052
## 2330	ENSG00000127054.20	INTS11	HGNC:26052
## 2331	ENSG00000283712.1	MIR6727	HGNC:50171
## 2332	ENSG00000283712.1	MIR6727	HGNC:50171
## 2333	ENSG00000283712.1	MIR6727	HGNC:50171
## 2334	ENSG00000240731.1	AL139287.1	<NA>
## 2335	ENSG00000240731.1	AL139287.1	<NA>
## 2336	ENSG00000240731.1	AL139287.1	<NA>
## 2337	ENSG00000240731.1	AL139287.1	<NA>
## 2338	ENSG00000224051.7	CPTP	HGNC:28116
## 2339	ENSG00000224051.7	CPTP	HGNC:28116
## 2340	ENSG00000224051.7	CPTP	HGNC:28116
## 2341	ENSG00000224051.7	CPTP	HGNC:28116
## 2342	ENSG00000224051.7	CPTP	HGNC:28116
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## 2348	ENSG00000224051.7	CPTP	HGNC:28116
## 2349	ENSG00000224051.7	CPTP	HGNC:28116
## 2350	ENSG00000169962.5	TAS1R3	HGNC:15661
## 2351	ENSG00000169962.5	TAS1R3	HGNC:15661
## 2352	ENSG00000169962.5	TAS1R3	HGNC:15661
## 2353	ENSG00000169962.5	TAS1R3	HGNC:15661
## 2354	ENSG00000169962.5	TAS1R3	HGNC:15661
## 2355	ENSG00000169962.5	TAS1R3	HGNC:15661
## 2356	ENSG00000169962.5	TAS1R3	HGNC:15661
## 2357	ENSG00000169962.5	TAS1R3	HGNC:15661
## 2358	ENSG00000169962.5	TAS1R3	HGNC:15661
## 2359	ENSG00000169962.5	TAS1R3	HGNC:15661
## 2360	ENSG00000169962.5	TAS1R3	HGNC:15661
## 2361	ENSG00000169962.5	TAS1R3	HGNC:15661
## 2362	ENSG00000169962.5	TAS1R3	HGNC:15661
## 2363	ENSG00000169962.5	TAS1R3	HGNC:15661
## 2364	ENSG00000169962.5	TAS1R3	HGNC:15661
## 2365	ENSG00000169962.5	TAS1R3	HGNC:15661
## 2366	ENSG00000169962.5	TAS1R3	HGNC:15661
## 2367	ENSG00000169962.5	TAS1R3	HGNC:15661
## 2368	ENSG00000107404.20	DVL1	HGNC:3084
## 2369	ENSG00000107404.20	DVL1	HGNC:3084
## 2370	ENSG00000107404.20	DVL1	HGNC:3084
## 2371	ENSG00000107404.20	DVL1	HGNC:3084
## 2372	ENSG00000107404.20	DVL1	HGNC:3084
## 2373	ENSG00000107404.20	DVL1	HGNC:3084
## 2374	ENSG00000107404.20	DVL1	HGNC:3084
## 2375	ENSG00000107404.20	DVL1	HGNC:3084

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## 2430	ENSG00000107404.20	DVL1	HGNC:3084
## 2431	ENSG00000107404.20	DVL1	HGNC:3084
## 2432	ENSG00000107404.20	DVL1	HGNC:3084
## 2433	ENSG00000107404.20	DVL1	HGNC:3084
## 2434	ENSG00000107404.20	DVL1	HGNC:3084
## 2435	ENSG00000107404.20	DVL1	HGNC:3084
## 2436	ENSG00000107404.20	DVL1	HGNC:3084
## 2437	ENSG00000107404.20	DVL1	HGNC:3084
## 2438	ENSG00000107404.20	DVL1	HGNC:3084
## 2439	ENSG00000107404.20	DVL1	HGNC:3084
## 2440	ENSG00000107404.20	DVL1	HGNC:3084
## 2441	ENSG00000107404.20	DVL1	HGNC:3084
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## 2453	ENSG00000107404.20	DVL1	HGNC:3084
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## 2461	ENSG00000107404.20	DVL1	HGNC:3084
## 2462	ENSG00000284372.1	MIR6808	HGNC:50046
## 2463	ENSG00000284372.1	MIR6808	HGNC:50046
## 2464	ENSG00000284372.1	MIR6808	HGNC:50046
## 2465	ENSG00000162576.16	MXRA8	HGNC:7542
## 2466	ENSG00000162576.16	MXRA8	HGNC:7542
## 2467	ENSG00000162576.16	MXRA8	HGNC:7542
## 2468	ENSG00000162576.16	MXRA8	HGNC:7542
## 2469	ENSG00000162576.16	MXRA8	HGNC:7542
## 2470	ENSG00000162576.16	MXRA8	HGNC:7542
## 2471	ENSG00000162576.16	MXRA8	HGNC:7542
## 2472	ENSG00000162576.16	MXRA8	HGNC:7542
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## 2474	ENSG00000162576.16	MXRA8	HGNC:7542
## 2475	ENSG00000162576.16	MXRA8	HGNC:7542
## 2476	ENSG00000162576.16	MXRA8	HGNC:7542
## 2477	ENSG00000162576.16	MXRA8	HGNC:7542
## 2478	ENSG00000162576.16	MXRA8	HGNC:7542
## 2479	ENSG00000162576.16	MXRA8	HGNC:7542
## 2480	ENSG00000162576.16	MXRA8	HGNC:7542
## 2481	ENSG00000162576.16	MXRA8	HGNC:7542
## 2482	ENSG00000162576.16	MXRA8	HGNC:7542
## 2483	ENSG00000162576.16	MXRA8	HGNC:7542

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[illegible]

## 2592	ENSG00000175756.13	AURKAIP1	HGNC:24114
## 2593	ENSG00000175756.13	AURKAIP1	HGNC:24114
## 2594	ENSG00000175756.13	AURKAIP1	HGNC:24114
## 2595	ENSG00000175756.13	AURKAIP1	HGNC:24114
## 2596	ENSG00000175756.13	AURKAIP1	HGNC:24114
## 2597	ENSG00000175756.13	AURKAIP1	HGNC:24114
## 2598	ENSG00000175756.13	AURKAIP1	HGNC:24114
## 2599	ENSG00000175756.13	AURKAIP1	HGNC:24114
## 2600	ENSG00000175756.13	AURKAIP1	HGNC:24114
## 2601	ENSG00000175756.13	AURKAIP1	HGNC:24114
## 2602	ENSG00000175756.13	AURKAIP1	HGNC:24114
## 2603	ENSG00000175756.13	AURKAIP1	HGNC:24114
## 2604	ENSG00000175756.13	AURKAIP1	HGNC:24114
## 2605	ENSG00000175756.13	AURKAIP1	HGNC:24114
## 2606	ENSG00000175756.13	AURKAIP1	HGNC:24114
## 2607	ENSG00000175756.13	AURKAIP1	HGNC:24114
## 2608	ENSG00000175756.13	AURKAIP1	HGNC:24114
## 2609	ENSG00000175756.13	AURKAIP1	HGNC:24114
## 2610	ENSG00000175756.13	AURKAIP1	HGNC:24114
## 2611	ENSG00000175756.13	AURKAIP1	HGNC:24114
## 2612	ENSG00000175756.13	AURKAIP1	HGNC:24114
## 2613	ENSG00000175756.13	AURKAIP1	HGNC:24114
## 2614	ENSG00000175756.13	AURKAIP1	HGNC:24114
## 2615	ENSG00000223663.2	NDUFB4P8	HGNC:45256
## 2616	ENSG00000223663.2	NDUFB4P8	HGNC:45256
## 2617	ENSG00000223663.2	NDUFB4P8	HGNC:45256
## 2618	ENSG00000221978.12	CCNL2	HGNC:20570
## 2619	ENSG00000221978.12	CCNL2	HGNC:20570
## 2620	ENSG00000221978.12	CCNL2	HGNC:20570
## 2621	ENSG00000221978.12	CCNL2	HGNC:20570
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## 2625	ENSG00000221978.12	CCNL2	HGNC:20570
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## 2628	ENSG00000221978.12	CCNL2	HGNC:20570
## 2629	ENSG00000221978.12	CCNL2	HGNC:20570
## 2630	ENSG00000221978.12	CCNL2	HGNC:20570
## 2631	ENSG00000221978.12	CCNL2	HGNC:20570
## 2632	ENSG00000221978.12	CCNL2	HGNC:20570
## 2633	ENSG00000221978.12	CCNL2	HGNC:20570
## 2634	ENSG00000221978.12	CCNL2	HGNC:20570
## 2635	ENSG00000221978.12	CCNL2	HGNC:20570
## 2636	ENSG00000221978.12	CCNL2	HGNC:20570
## 2637	ENSG00000221978.12	CCNL2	HGNC:20570
## 2638	ENSG00000221978.12	CCNL2	HGNC:20570
## 2639	ENSG00000221978.12	CCNL2	HGNC:20570
## 2640	ENSG00000221978.12	CCNL2	HGNC:20570
## 2641	ENSG00000221978.12	CCNL2	HGNC:20570
## 2642	ENSG00000221978.12	CCNL2	HGNC:20570
## 2643	ENSG00000221978.12	CCNL2	HGNC:20570
## 2644	ENSG00000221978.12	CCNL2	HGNC:20570
## 2645	ENSG00000221978.12	CCNL2	HGNC:20570

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## 2700	ENSG000000242485.6	MRPL20	HGNC:14478
## 2701	ENSG000000242485.6	MRPL20	HGNC:14478
## 2702	ENSG000000242485.6	MRPL20	HGNC:14478
## 2703	ENSG000000242485.6	MRPL20	HGNC:14478
## 2704	ENSG000000242485.6	MRPL20	HGNC:14478
## 2705	ENSG000000242485.6	MRPL20	HGNC:14478
## 2706	ENSG000000242485.6	MRPL20	HGNC:14478
## 2707	ENSG000000242485.6	MRPL20	HGNC:14478
## 2708	ENSG000000242485.6	MRPL20	HGNC:14478
## 2709	ENSG000000242485.6	MRPL20	HGNC:14478
## 2710	ENSG000000242485.6	MRPL20	HGNC:14478
## 2711	ENSG000000242485.6	MRPL20	HGNC:14478
## 2712	ENSG000000242485.6	MRPL20	HGNC:14478
## 2713	ENSG000000242485.6	MRPL20	HGNC:14478
## 2714	ENSG000000242485.6	MRPL20	HGNC:14478
## 2715	ENSG000000242485.6	MRPL20	HGNC:14478
## 2716	ENSG000000242485.6	MRPL20	HGNC:14478
## 2717	ENSG000000242485.6	MRPL20	HGNC:14478
## 2718	ENSG000000264293.2	RN7SL657P	HGNC:46673
## 2719	ENSG000000264293.2	RN7SL657P	HGNC:46673
## 2720	ENSG000000264293.2	RN7SL657P	HGNC:46673
## 2721	ENSG000000272455.1	AL391244.2	<NA>
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## 2724	ENSG000000235098.8	ANKRD65	HGNC:42950
## 2725	ENSG000000235098.8	ANKRD65	HGNC:42950
## 2726	ENSG000000235098.8	ANKRD65	HGNC:42950
## 2727	ENSG000000235098.8	ANKRD65	HGNC:42950
## 2728	ENSG000000235098.8	ANKRD65	HGNC:42950
## 2729	ENSG000000235098.8	ANKRD65	HGNC:42950
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## 2733	ENSG000000235098.8	ANKRD65	HGNC:42950
## 2734	ENSG000000235098.8	ANKRD65	HGNC:42950
## 2735	ENSG000000235098.8	ANKRD65	HGNC:42950
## 2736	ENSG000000235098.8	ANKRD65	HGNC:42950
## 2737	ENSG000000235098.8	ANKRD65	HGNC:42950
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## 2739	ENSG000000235098.8	ANKRD65	HGNC:42950
## 2740	ENSG000000235098.8	ANKRD65	HGNC:42950
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## 2742	ENSG000000235098.8	ANKRD65	HGNC:42950
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## 2749	ENSG000000235098.8	ANKRD65	HGNC:42950
## 2750	ENSG000000235098.8	ANKRD65	HGNC:42950
## 2751	ENSG000000235098.8	ANKRD65	HGNC:42950
## 2752	ENSG000000235098.8	ANKRD65	HGNC:42950
## 2753	ENSG000000235098.8	ANKRD65	HGNC:42950

## 2754	ENSG000000235098.8	ANKRD65	HGNC:42950
## 2755	ENSG000000235098.8	ANKRD65	HGNC:42950
## 2756	ENSG000000235098.8	ANKRD65	HGNC:42950
## 2757	ENSG000000235098.8	ANKRD65	HGNC:42950
## 2758	ENSG000000235098.8	ANKRD65	HGNC:42950
## 2759	ENSG000000235098.8	ANKRD65	HGNC:42950
## 2760	ENSG000000235098.8	ANKRD65	HGNC:42950
## 2761	ENSG000000235098.8	ANKRD65	HGNC:42950
## 2762	ENSG000000235098.8	ANKRD65	HGNC:42950
## 2763	ENSG000000235098.8	ANKRD65	HGNC:42950
## 2764	ENSG000000235098.8	ANKRD65	HGNC:42950
## 2765	ENSG000000235098.8	ANKRD65	HGNC:42950
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## 2769	ENSG000000235098.8	ANKRD65	HGNC:42950
## 2770	ENSG000000235098.8	ANKRD65	HGNC:42950
## 2771	ENSG000000235098.8	ANKRD65	HGNC:42950
## 2772	ENSG000000235098.8	ANKRD65	HGNC:42950
## 2773	ENSG000000235098.8	ANKRD65	HGNC:42950
## 2774	ENSG000000235098.8	ANKRD65	HGNC:42950
## 2775	ENSG000000235098.8	ANKRD65	HGNC:42950
## 2776	ENSG000000235098.8	ANKRD65	HGNC:42950
## 2777	ENSG000000225905.1	AL391244.1	<NA>
## 2778	ENSG000000225905.1	AL391244.1	<NA>
## 2779	ENSG000000225905.1	AL391244.1	<NA>
## 2780	ENSG000000225905.1	AL391244.1	<NA>
## 2781	ENSG000000205116.3	TMEM88B	HGNC:37099
## 2782	ENSG000000205116.3	TMEM88B	HGNC:37099
## 2783	ENSG000000205116.3	TMEM88B	HGNC:37099
## 2784	ENSG000000205116.3	TMEM88B	HGNC:37099
## 2785	ENSG000000205116.3	TMEM88B	HGNC:37099
## 2786	ENSG000000205116.3	TMEM88B	HGNC:37099
## 2787	ENSG000000205116.3	TMEM88B	HGNC:37099
## 2788	ENSG000000205116.3	TMEM88B	HGNC:37099
## 2789	ENSG000000205116.3	TMEM88B	HGNC:37099
## 2790	ENSG000000225285.1	LINC01770	HGNC:52560
## 2791	ENSG000000225285.1	LINC01770	HGNC:52560
## 2792	ENSG000000225285.1	LINC01770	HGNC:52560
## 2793	ENSG000000225285.1	LINC01770	HGNC:52560
## 2794	ENSG000000225285.1	LINC01770	HGNC:52560
## 2795	ENSG000000225285.1	LINC01770	HGNC:52560
## 2796	ENSG000000225285.1	LINC01770	HGNC:52560
## 2797	ENSG000000179403.12	VWA1	HGNC:30910
## 2798	ENSG000000179403.12	VWA1	HGNC:30910
## 2799	ENSG000000179403.12	VWA1	HGNC:30910
## 2800	ENSG000000179403.12	VWA1	HGNC:30910
## 2801	ENSG000000179403.12	VWA1	HGNC:30910
## 2802	ENSG000000179403.12	VWA1	HGNC:30910
## 2803	ENSG000000179403.12	VWA1	HGNC:30910
## 2804	ENSG000000179403.12	VWA1	HGNC:30910
## 2805	ENSG000000179403.12	VWA1	HGNC:30910
## 2806	ENSG000000179403.12	VWA1	HGNC:30910
## 2807	ENSG000000179403.12	VWA1	HGNC:30910

## 2808	ENSG00000179403.12	VWA1 HGNC:30910
## 2809	ENSG00000179403.12	VWA1 HGNC:30910
## 2810	ENSG00000179403.12	VWA1 HGNC:30910
## 2811	ENSG00000179403.12	VWA1 HGNC:30910
## 2812	ENSG00000179403.12	VWA1 HGNC:30910
## 2813	ENSG00000179403.12	VWA1 HGNC:30910
## 2814	ENSG00000179403.12	VWA1 HGNC:30910
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## 2817	ENSG00000179403.12	VWA1 HGNC:30910
## 2818	ENSG00000179403.12	VWA1 HGNC:30910
## 2819	ENSG00000179403.12	VWA1 HGNC:30910
## 2820	ENSG000000215915.9	ATAD3C HGNC:32151
## 2821	ENSG000000215915.9	ATAD3C HGNC:32151
## 2822	ENSG000000215915.9	ATAD3C HGNC:32151
## 2823	ENSG000000215915.9	ATAD3C HGNC:32151
## 2824	ENSG000000215915.9	ATAD3C HGNC:32151
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## 2842	ENSG000000215915.9	ATAD3C HGNC:32151
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## 2849	ENSG000000215915.9	ATAD3C HGNC:32151
## 2850	ENSG000000160072.19	ATAD3B HGNC:24007
## 2851	ENSG000000160072.19	ATAD3B HGNC:24007
## 2852	ENSG000000160072.19	ATAD3B HGNC:24007
## 2853	ENSG000000160072.19	ATAD3B HGNC:24007
## 2854	ENSG000000160072.19	ATAD3B HGNC:24007
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## 2856	ENSG000000160072.19	ATAD3B HGNC:24007
## 2857	ENSG000000160072.19	ATAD3B HGNC:24007
## 2858	ENSG000000160072.19	ATAD3B HGNC:24007
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## 2860	ENSG000000160072.19	ATAD3B HGNC:24007
## 2861	ENSG000000160072.19	ATAD3B HGNC:24007

## 2862	ENSG00000160072.19	ATAD3B	HGNC:24007
## 2863	ENSG00000160072.19	ATAD3B	HGNC:24007
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## 2872	ENSG00000160072.19	ATAD3B	HGNC:24007
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## 2875	ENSG00000160072.19	ATAD3B	HGNC:24007
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## 2878	ENSG00000160072.19	ATAD3B	HGNC:24007
## 2879	ENSG00000160072.19	ATAD3B	HGNC:24007
## 2880	ENSG00000160072.19	ATAD3B	HGNC:24007
## 2881	ENSG00000160072.19	ATAD3B	HGNC:24007
## 2882	ENSG00000160072.19	ATAD3B	HGNC:24007
## 2883	ENSG00000160072.19	ATAD3B	HGNC:24007
## 2884	ENSG00000160072.19	ATAD3B	HGNC:24007
## 2885	ENSG00000160072.19	ATAD3B	HGNC:24007
## 2886	ENSG00000160072.19	ATAD3B	HGNC:24007
## 2887	ENSG00000160072.19	ATAD3B	HGNC:24007
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## 2889	ENSG00000284740.1	AL645728.2	<NA>
## 2890	ENSG00000284740.1	AL645728.2	<NA>
## 2891	ENSG00000284740.1	AL645728.2	<NA>
## 2892	ENSG00000284740.1	AL645728.2	<NA>
## 2893	ENSG00000284740.1	AL645728.2	<NA>
## 2894	ENSG00000284740.1	AL645728.2	<NA>
## 2895	ENSG00000197785.13	ATAD3A	HGNC:25567
## 2896	ENSG00000197785.13	ATAD3A	HGNC:25567
## 2897	ENSG00000197785.13	ATAD3A	HGNC:25567
## 2898	ENSG00000197785.13	ATAD3A	HGNC:25567
## 2899	ENSG00000197785.13	ATAD3A	HGNC:25567
## 2900	ENSG00000197785.13	ATAD3A	HGNC:25567
## 2901	ENSG00000197785.13	ATAD3A	HGNC:25567
## 2902	ENSG00000197785.13	ATAD3A	HGNC:25567
## 2903	ENSG00000197785.13	ATAD3A	HGNC:25567
## 2904	ENSG00000197785.13	ATAD3A	HGNC:25567
## 2905	ENSG00000197785.13	ATAD3A	HGNC:25567
## 2906	ENSG00000197785.13	ATAD3A	HGNC:25567
## 2907	ENSG00000197785.13	ATAD3A	HGNC:25567
## 2908	ENSG00000197785.13	ATAD3A	HGNC:25567
## 2909	ENSG00000197785.13	ATAD3A	HGNC:25567
## 2910	ENSG00000197785.13	ATAD3A	HGNC:25567
## 2911	ENSG00000197785.13	ATAD3A	HGNC:25567
## 2912	ENSG00000197785.13	ATAD3A	HGNC:25567
## 2913	ENSG00000197785.13	ATAD3A	HGNC:25567
## 2914	ENSG00000197785.13	ATAD3A	HGNC:25567
## 2915	ENSG00000197785.13	ATAD3A	HGNC:25567

[illegible]

[illegible]

## 3024	ENSG000000205090.9	TMEM240	HGNC:25186
## 3025	ENSG000000205090.9	TMEM240	HGNC:25186
## 3026	ENSG000000205090.9	TMEM240	HGNC:25186
## 3027	ENSG000000205090.9	TMEM240	HGNC:25186
## 3028	ENSG000000205090.9	TMEM240	HGNC:25186
## 3029	ENSG000000205090.9	TMEM240	HGNC:25186
## 3030	ENSG000000205090.9	TMEM240	HGNC:25186
## 3031	ENSG000000205090.9	TMEM240	HGNC:25186
## 3032	ENSG000000205090.9	TMEM240	HGNC:25186
## 3033	ENSG000000205090.9	TMEM240	HGNC:25186
## 3034	ENSG000000205090.9	TMEM240	HGNC:25186
## 3035	ENSG000000205090.9	TMEM240	HGNC:25186
## 3036	ENSG000000205090.9	TMEM240	HGNC:25186
## 3037	ENSG000000205090.9	TMEM240	HGNC:25186
## 3038	ENSG000000205090.9	TMEM240	HGNC:25186
## 3039	ENSG000000205090.9	TMEM240	HGNC:25186
## 3040	ENSG000000205090.9	TMEM240	HGNC:25186
## 3041	ENSG000000205090.9	TMEM240	HGNC:25186
## 3042	ENSG000000205090.9	TMEM240	HGNC:25186
## 3043	ENSG000000205090.9	TMEM240	HGNC:25186
## 3044	ENSG000000205090.9	TMEM240	HGNC:25186
## 3045	ENSG000000160075.12	SSU72	HGNC:25016
## 3046	ENSG000000160075.12	SSU72	HGNC:25016
## 3047	ENSG000000160075.12	SSU72	HGNC:25016
## 3048	ENSG000000160075.12	SSU72	HGNC:25016
## 3049	ENSG000000160075.12	SSU72	HGNC:25016
## 3050	ENSG000000160075.12	SSU72	HGNC:25016
## 3051	ENSG000000160075.12	SSU72	HGNC:25016
## 3052	ENSG000000160075.12	SSU72	HGNC:25016
## 3053	ENSG000000160075.12	SSU72	HGNC:25016
## 3054	ENSG000000160075.12	SSU72	HGNC:25016
## 3055	ENSG000000160075.12	SSU72	HGNC:25016
## 3056	ENSG000000160075.12	SSU72	HGNC:25016
## 3057	ENSG000000160075.12	SSU72	HGNC:25016
## 3058	ENSG000000160075.12	SSU72	HGNC:25016
## 3059	ENSG000000160075.12	SSU72	HGNC:25016
## 3060	ENSG000000160075.12	SSU72	HGNC:25016
## 3061	ENSG000000160075.12	SSU72	HGNC:25016
## 3062	ENSG000000160075.12	SSU72	HGNC:25016
## 3063	ENSG000000160075.12	SSU72	HGNC:25016
## 3064	ENSG000000160075.12	SSU72	HGNC:25016
## 3065	ENSG000000160075.12	SSU72	HGNC:25016
## 3066	ENSG000000160075.12	SSU72	HGNC:25016
## 3067	ENSG000000160075.12	SSU72	HGNC:25016
## 3068	ENSG000000160075.12	SSU72	HGNC:25016
## 3069	ENSG000000160075.12	SSU72	HGNC:25016
## 3070	ENSG000000215014.5	AL645728.1	<NA>
## 3071	ENSG000000215014.5	AL645728.1	<NA>
## 3072	ENSG000000215014.5	AL645728.1	<NA>
## 3073	ENSG000000215014.5	AL645728.1	<NA>
## 3074	ENSG000000274481.1	AL691432.3	<NA>
## 3075	ENSG000000274481.1	AL691432.3	<NA>
## 3076	ENSG000000274481.1	AL691432.3	<NA>
## 3077	ENSG000000228594.4	FNDC10	HGNC:42951

## 3078	ENSG000000228594.4	FNDC10	HGNC:42951
## 3079	ENSG000000228594.4	FNDC10	HGNC:42951
## 3080	ENSG000000228594.4	FNDC10	HGNC:42951
## 3081	ENSG000000228594.4	FNDC10	HGNC:42951
## 3082	ENSG000000228594.4	FNDC10	HGNC:42951
## 3083	ENSG000000228594.4	FNDC10	HGNC:42951
## 3084	ENSG000000228594.4	FNDC10	HGNC:42951
## 3085	ENSG000000286989.1	AL691432.4	<NA>
## 3086	ENSG000000286989.1	AL691432.4	<NA>
## 3087	ENSG000000286989.1	AL691432.4	<NA>
## 3088	ENSG000000286989.1	AL691432.4	<NA>
## 3089	ENSG000000286989.1	AL691432.4	<NA>
## 3090	ENSG000000272106.1	AL691432.2	<NA>
## 3091	ENSG000000272106.1	AL691432.2	<NA>
## 3092	ENSG000000272106.1	AL691432.2	<NA>
## 3093	ENSG000000197530.12	MIB2	HGNC:30577
## 3094	ENSG000000197530.12	MIB2	HGNC:30577
## 3095	ENSG000000197530.12	MIB2	HGNC:30577
## 3096	ENSG000000197530.12	MIB2	HGNC:30577
## 3097	ENSG000000197530.12	MIB2	HGNC:30577
## 3098	ENSG000000197530.12	MIB2	HGNC:30577
## 3099	ENSG000000197530.12	MIB2	HGNC:30577
## 3100	ENSG000000197530.12	MIB2	HGNC:30577
## 3101	ENSG000000197530.12	MIB2	HGNC:30577
## 3102	ENSG000000197530.12	MIB2	HGNC:30577
## 3103	ENSG000000197530.12	MIB2	HGNC:30577
## 3104	ENSG000000197530.12	MIB2	HGNC:30577
## 3105	ENSG000000197530.12	MIB2	HGNC:30577
## 3106	ENSG000000197530.12	MIB2	HGNC:30577
## 3107	ENSG000000197530.12	MIB2	HGNC:30577
## 3108	ENSG000000197530.12	MIB2	HGNC:30577
## 3109	ENSG000000197530.12	MIB2	HGNC:30577
## 3110	ENSG000000197530.12	MIB2	HGNC:30577
## 3111	ENSG000000197530.12	MIB2	HGNC:30577
## 3112	ENSG000000197530.12	MIB2	HGNC:30577
## 3113	ENSG000000197530.12	MIB2	HGNC:30577
## 3114	ENSG000000197530.12	MIB2	HGNC:30577
## 3115	ENSG000000197530.12	MIB2	HGNC:30577
## 3116	ENSG000000197530.12	MIB2	HGNC:30577
## 3117	ENSG000000197530.12	MIB2	HGNC:30577
## 3118	ENSG000000197530.12	MIB2	HGNC:30577
## 3119	ENSG000000197530.12	MIB2	HGNC:30577
## 3120	ENSG000000197530.12	MIB2	HGNC:30577
## 3121	ENSG000000197530.12	MIB2	HGNC:30577
## 3122	ENSG000000197530.12	MIB2	HGNC:30577
## 3123	ENSG000000197530.12	MIB2	HGNC:30577
## 3124	ENSG000000197530.12	MIB2	HGNC:30577
## 3125	ENSG000000197530.12	MIB2	HGNC:30577
## 3126	ENSG000000197530.12	MIB2	HGNC:30577
## 3127	ENSG000000197530.12	MIB2	HGNC:30577
## 3128	ENSG000000197530.12	MIB2	HGNC:30577
## 3129	ENSG000000197530.12	MIB2	HGNC:30577
## 3130	ENSG000000197530.12	MIB2	HGNC:30577
## 3131	ENSG000000197530.12	MIB2	HGNC:30577

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[illegible]

[illegible]

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## 3672	ENSG000000248333.8	CDK11B	HGNC:1729
## 3673	ENSG000000248333.8	CDK11B	HGNC:1729
## 3674	ENSG000000248333.8	CDK11B	HGNC:1729
## 3675	ENSG000000248333.8	CDK11B	HGNC:1729
## 3676	ENSG000000248333.8	CDK11B	HGNC:1729
## 3677	ENSG000000248333.8	CDK11B	HGNC:1729
## 3678	ENSG000000248333.8	CDK11B	HGNC:1729
## 3679	ENSG000000248333.8	CDK11B	HGNC:1729
## 3680	ENSG000000248333.8	CDK11B	HGNC:1729
## 3681	ENSG000000248333.8	CDK11B	HGNC:1729
## 3682	ENSG000000248333.8	CDK11B	HGNC:1729
## 3683	ENSG000000248333.8	CDK11B	HGNC:1729
## 3684	ENSG000000248333.8	CDK11B	HGNC:1729
## 3685	ENSG000000248333.8	CDK11B	HGNC:1729
## 3686	ENSG000000248333.8	CDK11B	HGNC:1729
## 3687	ENSG000000248333.8	CDK11B	HGNC:1729
## 3688	ENSG000000248333.8	CDK11B	HGNC:1729
## 3689	ENSG000000248333.8	CDK11B	HGNC:1729
## 3690	ENSG000000248333.8	CDK11B	HGNC:1729
## 3691	ENSG000000248333.8	CDK11B	HGNC:1729
## 3692	ENSG000000248333.8	CDK11B	HGNC:1729
## 3693	ENSG000000248333.8	CDK11B	HGNC:1729
## 3694	ENSG000000248333.8	CDK11B	HGNC:1729
## 3695	ENSG000000248333.8	CDK11B	HGNC:1729
## 3696	ENSG000000248333.8	CDK11B	HGNC:1729
## 3697	ENSG000000248333.8	CDK11B	HGNC:1729
## 3698	ENSG000000248333.8	CDK11B	HGNC:1729
## 3699	ENSG000000248333.8	CDK11B	HGNC:1729
## 3700	ENSG000000248333.8	CDK11B	HGNC:1729
## 3701	ENSG000000248333.8	CDK11B	HGNC:1729
## 3702	ENSG000000248333.8	CDK11B	HGNC:1729
## 3703	ENSG000000248333.8	CDK11B	HGNC:1729
## 3704	ENSG000000248333.8	CDK11B	HGNC:1729
## 3705	ENSG000000248333.8	CDK11B	HGNC:1729
## 3706	ENSG000000248333.8	CDK11B	HGNC:1729
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## 3709	ENSG000000248333.8	CDK11B	HGNC:1729
## 3710	ENSG000000248333.8	CDK11B	HGNC:1729
## 3711	ENSG000000248333.8	CDK11B	HGNC:1729
## 3712	ENSG000000248333.8	CDK11B	HGNC:1729
## 3713	ENSG000000248333.8	CDK11B	HGNC:1729
## 3714	ENSG000000248333.8	CDK11B	HGNC:1729
## 3715	ENSG000000248333.8	CDK11B	HGNC:1729
## 3716	ENSG000000248333.8	CDK11B	HGNC:1729
## 3717	ENSG000000248333.8	CDK11B	HGNC:1729
## 3718	ENSG000000248333.8	CDK11B	HGNC:1729
## 3719	ENSG000000248333.8	CDK11B	HGNC:1729
## 3720	ENSG000000248333.8	CDK11B	HGNC:1729
## 3721	ENSG000000272004.1	F0704657.1	<NA>
## 3722	ENSG000000272004.1	F0704657.1	<NA>
## 3723	ENSG000000272004.1	F0704657.1	<NA>
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## 3725	ENSG000000189339.11	SLC35E2B	HGNC:33941

[illegible]

## 3780	ENSG00000189339.11	SLC35E2B	HGNC:33941
## 3781	ENSG00000189339.11	SLC35E2B	HGNC:33941
## 3782	ENSG00000189339.11	SLC35E2B	HGNC:33941
## 3783	ENSG00000189339.11	SLC35E2B	HGNC:33941
## 3784	ENSG00000189339.11	SLC35E2B	HGNC:33941
## 3785	ENSG00000189339.11	SLC35E2B	HGNC:33941
## 3786	ENSG00000189339.11	SLC35E2B	HGNC:33941
## 3787	ENSG00000189339.11	SLC35E2B	HGNC:33941
## 3788	ENSG00000189339.11	SLC35E2B	HGNC:33941
## 3789	ENSG00000189339.11	SLC35E2B	HGNC:33941
## 3790	ENSG00000189339.11	SLC35E2B	HGNC:33941
## 3791	ENSG00000189339.11	SLC35E2B	HGNC:33941
## 3792	ENSG00000189339.11	SLC35E2B	HGNC:33941
## 3793	ENSG00000269737.2	AL691432.1	<NA>
## 3794	ENSG00000269737.2	AL691432.1	<NA>
## 3795	ENSG00000269737.2	AL691432.1	<NA>
## 3796	ENSG00000269737.2	AL691432.1	<NA>
## 3797	ENSG00000269737.2	AL691432.1	<NA>
## 3798	ENSG00000269737.2	AL691432.1	<NA>
## 3799	ENSG00000215914.4	MMP23A	HGNC:7170
## 3800	ENSG00000215914.4	MMP23A	HGNC:7170
## 3801	ENSG00000215914.4	MMP23A	HGNC:7170
## 3802	ENSG00000215914.4	MMP23A	HGNC:7170
## 3803	ENSG00000215914.4	MMP23A	HGNC:7170
## 3804	ENSG00000215914.4	MMP23A	HGNC:7170
## 3805	ENSG00000215914.4	MMP23A	HGNC:7170
## 3806	ENSG00000215914.4	MMP23A	HGNC:7170
## 3807	ENSG00000215914.4	MMP23A	HGNC:7170
## 3808	ENSG00000008128.23	CDK11A	HGNC:1730
## 3809	ENSG00000008128.23	CDK11A	HGNC:1730
## 3810	ENSG00000008128.23	CDK11A	HGNC:1730
## 3811	ENSG00000008128.23	CDK11A	HGNC:1730
## 3812	ENSG00000008128.23	CDK11A	HGNC:1730
## 3813	ENSG00000008128.23	CDK11A	HGNC:1730
## 3814	ENSG00000008128.23	CDK11A	HGNC:1730
## 3815	ENSG00000008128.23	CDK11A	HGNC:1730
## 3816	ENSG00000008128.23	CDK11A	HGNC:1730
## 3817	ENSG00000008128.23	CDK11A	HGNC:1730
## 3818	ENSG00000008128.23	CDK11A	HGNC:1730
## 3819	ENSG00000008128.23	CDK11A	HGNC:1730
## 3820	ENSG00000008128.23	CDK11A	HGNC:1730
## 3821	ENSG00000008128.23	CDK11A	HGNC:1730
## 3822	ENSG00000008128.23	CDK11A	HGNC:1730
## 3823	ENSG00000008128.23	CDK11A	HGNC:1730
## 3824	ENSG00000008128.23	CDK11A	HGNC:1730
## 3825	ENSG00000008128.23	CDK11A	HGNC:1730
## 3826	ENSG00000008128.23	CDK11A	HGNC:1730
## 3827	ENSG00000008128.23	CDK11A	HGNC:1730
## 3828	ENSG00000008128.23	CDK11A	HGNC:1730
## 3829	ENSG00000008128.23	CDK11A	HGNC:1730
## 3830	ENSG00000008128.23	CDK11A	HGNC:1730
## 3831	ENSG00000008128.23	CDK11A	HGNC:1730
## 3832	ENSG00000008128.23	CDK11A	HGNC:1730
## 3833	ENSG00000008128.23	CDK11A	HGNC:1730

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## 4104	ENSG000000227775.3	AL031282.1	<NA>
## 4105	ENSG000000227775.3	AL031282.1	<NA>
## 4106	ENSG000000215790.7	SLC35E2A	HGNC:20863
## 4107	ENSG000000215790.7	SLC35E2A	HGNC:20863
## 4108	ENSG000000215790.7	SLC35E2A	HGNC:20863
## 4109	ENSG000000215790.7	SLC35E2A	HGNC:20863
## 4110	ENSG000000215790.7	SLC35E2A	HGNC:20863
## 4111	ENSG000000215790.7	SLC35E2A	HGNC:20863
## 4112	ENSG000000215790.7	SLC35E2A	HGNC:20863
## 4113	ENSG000000215790.7	SLC35E2A	HGNC:20863
## 4114	ENSG000000215790.7	SLC35E2A	HGNC:20863
## 4115	ENSG000000215790.7	SLC35E2A	HGNC:20863
## 4116	ENSG000000215790.7	SLC35E2A	HGNC:20863
## 4117	ENSG000000215790.7	SLC35E2A	HGNC:20863
## 4118	ENSG000000215790.7	SLC35E2A	HGNC:20863
## 4119	ENSG000000215790.7	SLC35E2A	HGNC:20863
## 4120	ENSG000000215790.7	SLC35E2A	HGNC:20863
## 4121	ENSG000000215790.7	SLC35E2A	HGNC:20863
## 4122	ENSG000000215790.7	SLC35E2A	HGNC:20863
## 4123	ENSG000000215790.7	SLC35E2A	HGNC:20863
## 4124	ENSG000000215790.7	SLC35E2A	HGNC:20863
## 4125	ENSG000000215790.7	SLC35E2A	HGNC:20863
## 4126	ENSG000000215790.7	SLC35E2A	HGNC:20863
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## 4133	ENSG000000215790.7	SLC35E2A	HGNC:20863
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## 4140	ENSG000000215790.7	SLC35E2A	HGNC:20863
## 4141	ENSG000000215790.7	SLC35E2A	HGNC:20863
## 4142	ENSG000000215790.7	SLC35E2A	HGNC:20863
## 4143	ENSG000000008130.15	NADK	HGNC:29831
## 4144	ENSG000000008130.15	NADK	HGNC:29831
## 4145	ENSG000000008130.15	NADK	HGNC:29831
## 4146	ENSG000000008130.15	NADK	HGNC:29831
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## 4155	ENSG000000008130.15	NADK	HGNC:29831
## 4156	ENSG000000008130.15	NADK	HGNC:29831
## 4157	ENSG000000008130.15	NADK	HGNC:29831

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## 4266	ENSG00000078369.18	GNB1	HGNC:4396
## 4267	ENSG00000078369.18	GNB1	HGNC:4396
## 4268	ENSG00000078369.18	GNB1	HGNC:4396
## 4269	ENSG00000078369.18	GNB1	HGNC:4396
## 4270	ENSG00000078369.18	GNB1	HGNC:4396
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## 4280	ENSG00000078369.18	GNB1	HGNC:4396
## 4281	ENSG00000078369.18	GNB1	HGNC:4396
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## 4299	ENSG00000078369.18	GNB1	HGNC:4396
## 4300	ENSG00000078369.18	GNB1	HGNC:4396
## 4301	ENSG00000078369.18	GNB1	HGNC:4396
## 4302	ENSG00000078369.18	GNB1	HGNC:4396
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## 4307	ENSG00000078369.18	GNB1	HGNC:4396
## 4308	ENSG00000078369.18	GNB1	HGNC:4396
## 4309	ENSG00000078369.18	GNB1	HGNC:4396
## 4310	ENSG00000078369.18	GNB1	HGNC:4396
## 4311	ENSG00000078369.18	GNB1	HGNC:4396
## 4312	ENSG00000078369.18	GNB1	HGNC:4396
## 4313	ENSG00000078369.18	GNB1	HGNC:4396
## 4314	ENSG00000078369.18	GNB1	HGNC:4396
## 4315	ENSG00000078369.18	GNB1	HGNC:4396
## 4316	ENSG00000078369.18	GNB1	HGNC:4396
## 4317	ENSG000000231050.1	AL109917.1	<NA>
## 4318	ENSG000000231050.1	AL109917.1	<NA>
## 4319	ENSG000000231050.1	AL109917.1	<NA>

## 4320	ENSG00000231050.1	AL109917.1	<NA>
## 4321	ENSG00000169885.10	CALML6	HGNC:24193
## 4322	ENSG00000169885.10	CALML6	HGNC:24193
## 4323	ENSG00000169885.10	CALML6	HGNC:24193
## 4324	ENSG00000169885.10	CALML6	HGNC:24193
## 4325	ENSG00000169885.10	CALML6	HGNC:24193
## 4326	ENSG00000169885.10	CALML6	HGNC:24193
## 4327	ENSG00000169885.10	CALML6	HGNC:24193
## 4328	ENSG00000169885.10	CALML6	HGNC:24193
## 4329	ENSG00000169885.10	CALML6	HGNC:24193
## 4330	ENSG00000169885.10	CALML6	HGNC:24193
## 4331	ENSG00000169885.10	CALML6	HGNC:24193
## 4332	ENSG00000169885.10	CALML6	HGNC:24193
## 4333	ENSG00000169885.10	CALML6	HGNC:24193
## 4334	ENSG00000169885.10	CALML6	HGNC:24193
## 4335	ENSG00000169885.10	CALML6	HGNC:24193
## 4336	ENSG00000169885.10	CALML6	HGNC:24193
## 4337	ENSG00000178821.13	TMEM52	HGNC:27916
## 4338	ENSG00000178821.13	TMEM52	HGNC:27916
## 4339	ENSG00000178821.13	TMEM52	HGNC:27916
## 4340	ENSG00000178821.13	TMEM52	HGNC:27916
## 4341	ENSG00000178821.13	TMEM52	HGNC:27916
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## 4349	ENSG00000178821.13	TMEM52	HGNC:27916
## 4350	ENSG00000178821.13	TMEM52	HGNC:27916
## 4351	ENSG00000178821.13	TMEM52	HGNC:27916
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## 4353	ENSG00000178821.13	TMEM52	HGNC:27916
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## 4355	ENSG00000178821.13	TMEM52	HGNC:27916
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## 4360	ENSG00000178821.13	TMEM52	HGNC:27916
## 4361	ENSG00000178821.13	TMEM52	HGNC:27916
## 4362	ENSG00000142609.18	CFAP74	HGNC:29368
## 4363	ENSG00000142609.18	CFAP74	HGNC:29368
## 4364	ENSG00000142609.18	CFAP74	HGNC:29368
## 4365	ENSG00000142609.18	CFAP74	HGNC:29368
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## 4428	ENSG00000142609.18	CFAP74	HGNC:29368
## 4429	ENSG00000142609.18	CFAP74	HGNC:29368
## 4430	ENSG00000142609.18	CFAP74	HGNC:29368
## 4431	ENSG00000142609.18	CFAP74	HGNC:29368
## 4432	ENSG00000142609.18	CFAP74	HGNC:29368
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## 4439	ENSG00000142609.18	CFAP74	HGNC:29368
## 4440	ENSG00000142609.18	CFAP74	HGNC:29368
## 4441	ENSG00000142609.18	CFAP74	HGNC:29368
## 4442	ENSG00000142609.18	CFAP74	HGNC:29368
## 4443	ENSG00000142609.18	CFAP74	HGNC:29368
## 4444	ENSG00000233542.2	AL391845.2	<NA>
## 4445	ENSG00000233542.2	AL391845.2	<NA>
## 4446	ENSG00000233542.2	AL391845.2	<NA>
## 4447	ENSG00000233542.2	AL391845.2	<NA>
## 4448	ENSG00000233542.2	AL391845.2	<NA>
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## 4452	ENSG00000187730.9	GABRD	HGNC:4084
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## 4454	ENSG00000187730.9	GABRD	HGNC:4084
## 4455	ENSG00000187730.9	GABRD	HGNC:4084
## 4456	ENSG00000187730.9	GABRD	HGNC:4084
## 4457	ENSG00000187730.9	GABRD	HGNC:4084
## 4458	ENSG00000187730.9	GABRD	HGNC:4084
## 4459	ENSG00000187730.9	GABRD	HGNC:4084
## 4460	ENSG00000187730.9	GABRD	HGNC:4084
## 4461	ENSG00000187730.9	GABRD	HGNC:4084
## 4462	ENSG00000187730.9	GABRD	HGNC:4084
## 4463	ENSG00000187730.9	GABRD	HGNC:4084
## 4464	ENSG00000187730.9	GABRD	HGNC:4084
## 4465	ENSG00000187730.9	GABRD	HGNC:4084
## 4466	ENSG00000187730.9	GABRD	HGNC:4084
## 4467	ENSG00000187730.9	GABRD	HGNC:4084
## 4468	ENSG00000187730.9	GABRD	HGNC:4084
## 4469	ENSG00000187730.9	GABRD	HGNC:4084
## 4470	ENSG00000187730.9	GABRD	HGNC:4084
## 4471	ENSG00000187730.9	GABRD	HGNC:4084
## 4472	ENSG00000187730.9	GABRD	HGNC:4084
## 4473	ENSG00000187730.9	GABRD	HGNC:4084
## 4474	ENSG00000187730.9	GABRD	HGNC:4084
## 4475	ENSG00000187730.9	GABRD	HGNC:4084
## 4476	ENSG00000187730.9	GABRD	HGNC:4084
## 4477	ENSG00000187730.9	GABRD	HGNC:4084
## 4478	ENSG00000187730.9	GABRD	HGNC:4084
## 4479	ENSG00000187730.9	GABRD	HGNC:4084
## 4480	ENSG00000187730.9	GABRD	HGNC:4084
## 4481	ENSG00000187730.9	GABRD	HGNC:4084

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## 4536	ENSG000000187730.9	GABRD	HGNC:4084
## 4537	ENSG000000187730.9	GABRD	HGNC:4084
## 4538	ENSG000000187730.9	GABRD	HGNC:4084
## 4539	ENSG000000187730.9	GABRD	HGNC:4084
## 4540	ENSG000000187730.9	GABRD	HGNC:4084
## 4541	ENSG000000187730.9	GABRD	HGNC:4084
## 4542	ENSG000000187730.9	GABRD	HGNC:4084
## 4543	ENSG000000226969.1	AL391845.1	<NA>
## 4544	ENSG000000226969.1	AL391845.1	<NA>
## 4545	ENSG000000226969.1	AL391845.1	<NA>
## 4546	ENSG000000226969.1	AL391845.1	<NA>
## 4547	ENSG000000226969.1	AL391845.1	<NA>
## 4548	ENSG000000067606.17	PRKCZ	HGNC:9412
## 4549	ENSG000000067606.17	PRKCZ	HGNC:9412
## 4550	ENSG000000067606.17	PRKCZ	HGNC:9412
## 4551	ENSG000000067606.17	PRKCZ	HGNC:9412
## 4552	ENSG000000067606.17	PRKCZ	HGNC:9412
## 4553	ENSG000000067606.17	PRKCZ	HGNC:9412
## 4554	ENSG000000067606.17	PRKCZ	HGNC:9412
## 4555	ENSG000000067606.17	PRKCZ	HGNC:9412
## 4556	ENSG000000067606.17	PRKCZ	HGNC:9412
## 4557	ENSG000000067606.17	PRKCZ	HGNC:9412
## 4558	ENSG000000067606.17	PRKCZ	HGNC:9412
## 4559	ENSG000000067606.17	PRKCZ	HGNC:9412
## 4560	ENSG000000067606.17	PRKCZ	HGNC:9412
## 4561	ENSG000000067606.17	PRKCZ	HGNC:9412
## 4562	ENSG000000067606.17	PRKCZ	HGNC:9412
## 4563	ENSG000000067606.17	PRKCZ	HGNC:9412
## 4564	ENSG000000067606.17	PRKCZ	HGNC:9412
## 4565	ENSG000000067606.17	PRKCZ	HGNC:9412
## 4566	ENSG000000067606.17	PRKCZ	HGNC:9412
## 4567	ENSG000000067606.17	PRKCZ	HGNC:9412
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## 4569	ENSG000000067606.17	PRKCZ	HGNC:9412
## 4570	ENSG000000067606.17	PRKCZ	HGNC:9412
## 4571	ENSG000000067606.17	PRKCZ	HGNC:9412
## 4572	ENSG000000067606.17	PRKCZ	HGNC:9412
## 4573	ENSG000000067606.17	PRKCZ	HGNC:9412
## 4574	ENSG000000067606.17	PRKCZ	HGNC:9412
## 4575	ENSG000000067606.17	PRKCZ	HGNC:9412
## 4576	ENSG000000067606.17	PRKCZ	HGNC:9412
## 4577	ENSG000000067606.17	PRKCZ	HGNC:9412
## 4578	ENSG000000067606.17	PRKCZ	HGNC:9412
## 4579	ENSG000000067606.17	PRKCZ	HGNC:9412
## 4580	ENSG000000067606.17	PRKCZ	HGNC:9412
## 4581	ENSG000000067606.17	PRKCZ	HGNC:9412
## 4582	ENSG000000067606.17	PRKCZ	HGNC:9412
## 4583	ENSG000000067606.17	PRKCZ	HGNC:9412
## 4584	ENSG000000271806.1	AL590822.2	<NA>
## 4585	ENSG000000271806.1	AL590822.2	<NA>
## 4586	ENSG000000271806.1	AL590822.2	<NA>
## 4587	ENSG000000182873.5	PRKCZ-AS1	HGNC:40477
## 4588	ENSG000000182873.5	PRKCZ-AS1	HGNC:40477
## 4589	ENSG000000182873.5	PRKCZ-AS1	HGNC:40477

## 4590	ENSG000000182873.5	PRKCZ-AS1	HGNC:40477
## 4591	ENSG000000182873.5	PRKCZ-AS1	HGNC:40477
## 4592	ENSG000000182873.5	PRKCZ-AS1	HGNC:40477
## 4593	ENSG000000182873.5	PRKCZ-AS1	HGNC:40477
## 4594	ENSG000000182873.5	PRKCZ-AS1	HGNC:40477
## 4595	ENSG000000162585.17	FAAP20	HGNC:26428
## 4596	ENSG000000162585.17	FAAP20	HGNC:26428
## 4597	ENSG000000162585.17	FAAP20	HGNC:26428
## 4598	ENSG000000162585.17	FAAP20	HGNC:26428
## 4599	ENSG000000162585.17	FAAP20	HGNC:26428
## 4600	ENSG000000162585.17	FAAP20	HGNC:26428
## 4601	ENSG000000162585.17	FAAP20	HGNC:26428
## 4602	ENSG000000162585.17	FAAP20	HGNC:26428
## 4603	ENSG000000162585.17	FAAP20	HGNC:26428
## 4604	ENSG000000162585.17	FAAP20	HGNC:26428
## 4605	ENSG000000162585.17	FAAP20	HGNC:26428
## 4606	ENSG000000162585.17	FAAP20	HGNC:26428
## 4607	ENSG000000162585.17	FAAP20	HGNC:26428
## 4608	ENSG000000162585.17	FAAP20	HGNC:26428
## 4609	ENSG000000162585.17	FAAP20	HGNC:26428
## 4610	ENSG000000162585.17	FAAP20	HGNC:26428
## 4611	ENSG000000162585.17	FAAP20	HGNC:26428
## 4612	ENSG000000162585.17	FAAP20	HGNC:26428
## 4613	ENSG000000162585.17	FAAP20	HGNC:26428
## 4614	ENSG000000162585.17	FAAP20	HGNC:26428
## 4615	ENSG000000162585.17	FAAP20	HGNC:26428
## 4616	ENSG000000162585.17	FAAP20	HGNC:26428
## 4617	ENSG000000162585.17	FAAP20	HGNC:26428
## 4618	ENSG000000162585.17	FAAP20	HGNC:26428
## 4619	ENSG000000162585.17	FAAP20	HGNC:26428
## 4620	ENSG000000234396.3	AL590822.1	<NA>
## 4621	ENSG000000234396.3	AL590822.1	<NA>
## 4622	ENSG000000234396.3	AL590822.1	<NA>
## 4623	ENSG000000234396.3	AL590822.1	<NA>
## 4624	ENSG000000157933.10	SKI	HGNC:10896
## 4625	ENSG000000157933.10	SKI	HGNC:10896
## 4626	ENSG000000157933.10	SKI	HGNC:10896
## 4627	ENSG000000157933.10	SKI	HGNC:10896
## 4628	ENSG000000157933.10	SKI	HGNC:10896
## 4629	ENSG000000157933.10	SKI	HGNC:10896
## 4630	ENSG000000157933.10	SKI	HGNC:10896
## 4631	ENSG000000157933.10	SKI	HGNC:10896
## 4632	ENSG000000157933.10	SKI	HGNC:10896
## 4633	ENSG000000157933.10	SKI	HGNC:10896
## 4634	ENSG000000157933.10	SKI	HGNC:10896
## 4635	ENSG000000157933.10	SKI	HGNC:10896
## 4636	ENSG000000157933.10	SKI	HGNC:10896
## 4637	ENSG000000157933.10	SKI	HGNC:10896
## 4638	ENSG000000157933.10	SKI	HGNC:10896
## 4639	ENSG000000157933.10	SKI	HGNC:10896
## 4640	ENSG000000157933.10	SKI	HGNC:10896
## 4641	ENSG000000157933.10	SKI	HGNC:10896
## 4642	ENSG000000157933.10	SKI	HGNC:10896
## 4643	ENSG000000157933.10	SKI	HGNC:10896

[illegible]

## 4698	ENSG00000116151.14	MORN1	HGNC:25852
## 4699	ENSG00000116151.14	MORN1	HGNC:25852
## 4700	ENSG00000116151.14	MORN1	HGNC:25852
## 4701	ENSG00000116151.14	MORN1	HGNC:25852
## 4702	ENSG00000116151.14	MORN1	HGNC:25852
## 4703	ENSG00000116151.14	MORN1	HGNC:25852
## 4704	ENSG00000116151.14	MORN1	HGNC:25852
## 4705	ENSG00000116151.14	MORN1	HGNC:25852
## 4706	ENSG00000116151.14	MORN1	HGNC:25852
## 4707	ENSG00000116151.14	MORN1	HGNC:25852
## 4708	ENSG00000116151.14	MORN1	HGNC:25852
## 4709	ENSG00000116151.14	MORN1	HGNC:25852
## 4710	ENSG00000116151.14	MORN1	HGNC:25852
## 4711	ENSG00000116151.14	MORN1	HGNC:25852
## 4712	ENSG00000116151.14	MORN1	HGNC:25852
## 4713	ENSG00000116151.14	MORN1	HGNC:25852
## 4714	ENSG00000116151.14	MORN1	HGNC:25852
## 4715	ENSG00000272161.1	AL589739.1	<NA>
## 4716	ENSG00000272161.1	AL589739.1	<NA>
## 4717	ENSG00000272161.1	AL589739.1	<NA>
## 4718	ENSG00000269896.2	AL513477.1	<NA>
## 4719	ENSG00000269896.2	AL513477.1	<NA>
## 4720	ENSG00000269896.2	AL513477.1	<NA>
## 4721	ENSG00000269896.2	AL513477.1	<NA>
## 4722	ENSG00000269896.2	AL513477.1	<NA>
## 4723	ENSG00000272420.1	AL513477.2	<NA>
## 4724	ENSG00000272420.1	AL513477.2	<NA>
## 4725	ENSG00000272420.1	AL513477.2	<NA>
## 4726	ENSG00000157916.20	RER1	HGNC:30309
## 4727	ENSG00000157916.20	RER1	HGNC:30309
## 4728	ENSG00000157916.20	RER1	HGNC:30309
## 4729	ENSG00000157916.20	RER1	HGNC:30309
## 4730	ENSG00000157916.20	RER1	HGNC:30309
## 4731	ENSG00000157916.20	RER1	HGNC:30309
## 4732	ENSG00000157916.20	RER1	HGNC:30309
## 4733	ENSG00000157916.20	RER1	HGNC:30309
## 4734	ENSG00000157916.20	RER1	HGNC:30309
## 4735	ENSG00000157916.20	RER1	HGNC:30309
## 4736	ENSG00000157916.20	RER1	HGNC:30309
## 4737	ENSG00000157916.20	RER1	HGNC:30309
## 4738	ENSG00000157916.20	RER1	HGNC:30309
## 4739	ENSG00000157916.20	RER1	HGNC:30309
## 4740	ENSG00000157916.20	RER1	HGNC:30309
## 4741	ENSG00000157916.20	RER1	HGNC:30309
## 4742	ENSG00000157916.20	RER1	HGNC:30309
## 4743	ENSG00000157916.20	RER1	HGNC:30309
## 4744	ENSG00000157916.20	RER1	HGNC:30309
## 4745	ENSG00000157916.20	RER1	HGNC:30309
## 4746	ENSG00000157916.20	RER1	HGNC:30309
## 4747	ENSG00000157916.20	RER1	HGNC:30309
## 4748	ENSG00000157916.20	RER1	HGNC:30309
## 4749	ENSG00000157916.20	RER1	HGNC:30309
## 4750	ENSG00000157916.20	RER1	HGNC:30309
## 4751	ENSG00000157916.20	RER1	HGNC:30309

[illegible]

[illegible]

[illegible]

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## 4968	ENSG00000149527.18	PLCH2	HGNC:29037
## 4969	ENSG00000149527.18	PLCH2	HGNC:29037
## 4970	ENSG00000149527.18	PLCH2	HGNC:29037
## 4971	ENSG00000149527.18	PLCH2	HGNC:29037
## 4972	ENSG00000149527.18	PLCH2	HGNC:29037
## 4973	ENSG00000149527.18	PLCH2	HGNC:29037
## 4974	ENSG00000149527.18	PLCH2	HGNC:29037
## 4975	ENSG00000149527.18	PLCH2	HGNC:29037
## 4976	ENSG00000149527.18	PLCH2	HGNC:29037
## 4977	ENSG00000149527.18	PLCH2	HGNC:29037
## 4978	ENSG00000149527.18	PLCH2	HGNC:29037
## 4979	ENSG00000149527.18	PLCH2	HGNC:29037
## 4980	ENSG00000149527.18	PLCH2	HGNC:29037
## 4981	ENSG00000149527.18	PLCH2	HGNC:29037
## 4982	ENSG00000149527.18	PLCH2	HGNC:29037
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## 4985	ENSG00000149527.18	PLCH2	HGNC:29037
## 4986	ENSG00000149527.18	PLCH2	HGNC:29037
## 4987	ENSG00000149527.18	PLCH2	HGNC:29037
## 4988	ENSG00000149527.18	PLCH2	HGNC:29037
## 4989	ENSG00000149527.18	PLCH2	HGNC:29037
## 4990	ENSG00000149527.18	PLCH2	HGNC:29037
## 4991	ENSG00000149527.18	PLCH2	HGNC:29037
## 4992	ENSG00000149527.18	PLCH2	HGNC:29037
## 4993	ENSG00000149527.18	PLCH2	HGNC:29037
## 4994	ENSG00000149527.18	PLCH2	HGNC:29037
## 4995	ENSG00000149527.18	PLCH2	HGNC:29037
## 4996	ENSG00000149527.18	PLCH2	HGNC:29037
## 4997	ENSG00000149527.18	PLCH2	HGNC:29037
## 4998	ENSG00000149527.18	PLCH2	HGNC:29037
## 4999	ENSG00000149527.18	PLCH2	HGNC:29037
## 5000	ENSG00000149527.18	PLCH2	HGNC:29037
## 5001	ENSG00000149527.18	PLCH2	HGNC:29037
## 5002	ENSG00000149527.18	PLCH2	HGNC:29037
## 5003	ENSG00000149527.18	PLCH2	HGNC:29037
## 5004	ENSG00000149527.18	PLCH2	HGNC:29037
## 5005	ENSG00000149527.18	PLCH2	HGNC:29037
## 5006	ENSG00000149527.18	PLCH2	HGNC:29037
## 5007	ENSG00000149527.18	PLCH2	HGNC:29037
## 5008	ENSG00000149527.18	PLCH2	HGNC:29037
## 5009	ENSG00000149527.18	PLCH2	HGNC:29037
## 5010	ENSG00000149527.18	PLCH2	HGNC:29037
## 5011	ENSG00000149527.18	PLCH2	HGNC:29037
## 5012	ENSG00000149527.18	PLCH2	HGNC:29037
## 5013	ENSG00000149527.18	PLCH2	HGNC:29037
## 5014	ENSG00000224387.1	AL139246.1	<NA>
## 5015	ENSG00000224387.1	AL139246.1	<NA>
## 5016	ENSG00000224387.1	AL139246.1	<NA>
## 5017	ENSG00000224387.1	AL139246.1	<NA>
## 5018	ENSG00000229393.1	AL139246.4	<NA>
## 5019	ENSG00000229393.1	AL139246.4	<NA>
## 5020	ENSG00000229393.1	AL139246.4	<NA>
## 5021	ENSG00000229393.1	AL139246.4	<NA>

[illegible]

[illegible]

## 5130	ENSG00000157881.14	PANK4	HGNC:19366
## 5131	ENSG00000157881.14	PANK4	HGNC:19366
## 5132	ENSG00000157881.14	PANK4	HGNC:19366
## 5133	ENSG00000157881.14	PANK4	HGNC:19366
## 5134	ENSG00000157881.14	PANK4	HGNC:19366
## 5135	ENSG00000157881.14	PANK4	HGNC:19366
## 5136	ENSG00000157881.14	PANK4	HGNC:19366
## 5137	ENSG00000157881.14	PANK4	HGNC:19366
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## 5139	ENSG00000157881.14	PANK4	HGNC:19366
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## 5145	ENSG00000157881.14	PANK4	HGNC:19366
## 5146	ENSG00000157881.14	PANK4	HGNC:19366
## 5147	ENSG00000157881.14	PANK4	HGNC:19366
## 5148	ENSG00000157881.14	PANK4	HGNC:19366
## 5149	ENSG00000157881.14	PANK4	HGNC:19366
## 5150	ENSG00000157881.14	PANK4	HGNC:19366
## 5151	ENSG00000197921.6	HES5	HGNC:19764
## 5152	ENSG00000197921.6	HES5	HGNC:19764
## 5153	ENSG00000197921.6	HES5	HGNC:19764
## 5154	ENSG00000197921.6	HES5	HGNC:19764
## 5155	ENSG00000197921.6	HES5	HGNC:19764
## 5156	ENSG00000197921.6	HES5	HGNC:19764
## 5157	ENSG00000197921.6	HES5	HGNC:19764
## 5158	ENSG00000197921.6	HES5	HGNC:19764
## 5159	ENSG00000197921.6	HES5	HGNC:19764
## 5160	ENSG00000197921.6	HES5	HGNC:19764
## 5161	ENSG00000197921.6	HES5	HGNC:19764
## 5162	ENSG00000197921.6	HES5	HGNC:19764
## 5163	ENSG00000272449.2	AL139246.5	<NA>
## 5164	ENSG00000272449.2	AL139246.5	<NA>
## 5165	ENSG00000272449.2	AL139246.5	<NA>
## 5166	ENSG00000272449.2	AL139246.5	<NA>
## 5167	ENSG00000238164.6	TNFRSF14-AS1	HGNC:26966
## 5168	ENSG00000238164.6	TNFRSF14-AS1	HGNC:26966
## 5169	ENSG00000238164.6	TNFRSF14-AS1	HGNC:26966
## 5170	ENSG00000238164.6	TNFRSF14-AS1	HGNC:26966
## 5171	ENSG00000238164.6	TNFRSF14-AS1	HGNC:26966
## 5172	ENSG00000238164.6	TNFRSF14-AS1	HGNC:26966
## 5173	ENSG00000238164.6	TNFRSF14-AS1	HGNC:26966
## 5174	ENSG00000238164.6	TNFRSF14-AS1	HGNC:26966
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## 5177	ENSG00000238164.6	TNFRSF14-AS1	HGNC:26966
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## 5182	ENSG00000238164.6	TNFRSF14-AS1	HGNC:26966
## 5183	ENSG00000238164.6	TNFRSF14-AS1	HGNC:26966

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##	5187	ENSG00000157873.17	TNFRSF14	HGNC:11912
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##	5214	ENSG00000157873.17	TNFRSF14	HGNC:11912
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##	5224	ENSG00000157873.17	TNFRSF14	HGNC:11912
##	5225	ENSG00000157873.17	TNFRSF14	HGNC:11912
##	5226	ENSG00000157873.17	TNFRSF14	HGNC:11912
##	5227	ENSG00000157873.17	TNFRSF14	HGNC:11912
##	5228	ENSG00000225931.3	AL139246.2	<NA>
##	5229	ENSG00000225931.3	AL139246.2	<NA>
##	5230	ENSG00000225931.3	AL139246.2	<NA>
##	5231	ENSG00000225931.3	AL139246.2	<NA>
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##	5233	ENSG00000228037.1	AL139246.3	<NA>
##	5234	ENSG00000228037.1	AL139246.3	<NA>
##	5235	ENSG00000228037.1	AL139246.3	<NA>
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[illegible]

[illegible]

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## 5400	ENSG00000142606.16	MMEL1	HGNC:14668
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## 5412	ENSG00000142606.16	MMEL1	HGNC:14668
## 5413	ENSG00000142606.16	MMEL1	HGNC:14668
## 5414	ENSG00000142606.16	MMEL1	HGNC:14668
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## 5419	ENSG00000142606.16	MMEL1	HGNC:14668
## 5420	ENSG00000142606.16	MMEL1	HGNC:14668
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## 5430	ENSG00000142606.16	MMEL1	HGNC:14668
## 5431	ENSG00000142606.16	MMEL1	HGNC:14668
## 5432	ENSG00000142606.16	MMEL1	HGNC:14668
## 5433	ENSG00000142606.16	MMEL1	HGNC:14668
## 5434	ENSG00000142606.16	MMEL1	HGNC:14668
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## 5438	ENSG00000142606.16	MMEL1	HGNC:14668
## 5439	ENSG00000142606.16	MMEL1	HGNC:14668
## 5440	ENSG00000142606.16	MMEL1	HGNC:14668
## 5441	ENSG00000142606.16	MMEL1	HGNC:14668
## 5442	ENSG00000142606.16	MMEL1	HGNC:14668
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## 5445	ENSG00000142606.16	MMEL1	HGNC:14668
## 5446	ENSG00000237058.1	AL831784.1	<NA>
## 5447	ENSG00000237058.1	AL831784.1	<NA>
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## 5452	ENSG00000215912.12	TTC34	HGNC:34297
## 5453	ENSG00000215912.12	TTC34	HGNC:34297

## 5454	ENSG00000215912.12	TTC34	HGNC:34297
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## 5456	ENSG00000215912.12	TTC34	HGNC:34297
## 5457	ENSG00000215912.12	TTC34	HGNC:34297
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## 5460	ENSG00000215912.12	TTC34	HGNC:34297
## 5461	ENSG00000215912.12	TTC34	HGNC:34297
## 5462	ENSG00000215912.12	TTC34	HGNC:34297
## 5463	ENSG00000215912.12	TTC34	HGNC:34297
## 5464	ENSG00000215912.12	TTC34	HGNC:34297
## 5465	ENSG00000215912.12	TTC34	HGNC:34297
## 5466	ENSG00000215912.12	TTC34	HGNC:34297
## 5467	ENSG00000215912.12	TTC34	HGNC:34297
## 5468	ENSG00000215912.12	TTC34	HGNC:34297
## 5469	ENSG00000215912.12	TTC34	HGNC:34297
## 5470	ENSG00000215912.12	TTC34	HGNC:34297
## 5471	ENSG00000215912.12	TTC34	HGNC:34297
## 5472	ENSG00000215912.12	TTC34	HGNC:34297
## 5473	ENSG00000215912.12	TTC34	HGNC:34297
## 5474	ENSG00000215912.12	TTC34	HGNC:34297
## 5475	ENSG00000215912.12	TTC34	HGNC:34297
## 5476	ENSG00000215912.12	TTC34	HGNC:34297
## 5477	ENSG00000215912.12	TTC34	HGNC:34297
## 5478	ENSG00000215912.12	TTC34	HGNC:34297
## 5479	ENSG00000215912.12	TTC34	HGNC:34297
## 5480	ENSG00000215912.12	TTC34	HGNC:34297
## 5481	ENSG00000215912.12	TTC34	HGNC:34297
## 5482	ENSG00000215912.12	TTC34	HGNC:34297
## 5483	ENSG00000215912.12	TTC34	HGNC:34297
## 5484	ENSG00000215912.12	TTC34	HGNC:34297
## 5485	ENSG00000215912.12	TTC34	HGNC:34297
## 5486	ENSG00000215912.12	TTC34	HGNC:34297
## 5487	ENSG00000215912.12	TTC34	HGNC:34297
## 5488	ENSG00000215912.12	TTC34	HGNC:34297
## 5489	ENSG00000215912.12	TTC34	HGNC:34297
## 5490	ENSG00000215912.12	TTC34	HGNC:34297
## 5491	ENSG00000215912.12	TTC34	HGNC:34297
## 5492	ENSG00000215912.12	TTC34	HGNC:34297
## 5493	ENSG00000285945.1	AC242022.2	<NA>
## 5494	ENSG00000285945.1	AC242022.2	<NA>
## 5495	ENSG00000285945.1	AC242022.2	<NA>
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## 5509	ENSG000000283259.1	AC242022.1	<NA>
## 5510	ENSG000000233234.1	AL592464.2	<NA>
## 5511	ENSG000000233234.1	AL592464.2	<NA>
## 5512	ENSG000000233234.1	AL592464.2	<NA>
## 5513	ENSG000000233234.1	AL592464.2	<NA>
## 5514	ENSG000000287396.1	AL592464.3	<NA>
## 5515	ENSG000000287396.1	AL592464.3	<NA>
## 5516	ENSG000000287396.1	AL592464.3	<NA>
## 5517	ENSG000000287396.1	AL592464.3	<NA>
## 5518	ENSG000000231630.1	AL592464.1	<NA>
## 5519	ENSG000000231630.1	AL592464.1	<NA>
## 5520	ENSG000000231630.1	AL592464.1	<NA>
## 5521	ENSG000000231630.1	AL592464.1	<NA>
## 5522	ENSG000000284745.1	AL589702.1	<NA>
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## 5524	ENSG000000284745.1	AL589702.1	<NA>
## 5525	ENSG000000284745.1	AL589702.1	<NA>
## 5526	ENSG000000284745.1	AL589702.1	<NA>
## 5527	ENSG000000169717.6	ACTRT2 HGNC:24026	
## 5528	ENSG000000169717.6	ACTRT2 HGNC:24026	
## 5529	ENSG000000169717.6	ACTRT2 HGNC:24026	
## 5530	ENSG000000169717.6	ACTRT2 HGNC:24026	
## 5531	ENSG000000169717.6	ACTRT2 HGNC:24026	
## 5532	ENSG000000169717.6	ACTRT2 HGNC:24026	
## 5533	ENSG000000169717.6	ACTRT2 HGNC:24026	
## 5534	ENSG000000169717.6	ACTRT2 HGNC:24026	
## 5535	ENSG000000177133.11	PRDM16-DT HGNC:48664	
## 5536	ENSG000000177133.11	PRDM16-DT HGNC:48664	
## 5537	ENSG000000177133.11	PRDM16-DT HGNC:48664	
## 5538	ENSG000000177133.11	PRDM16-DT HGNC:48664	
## 5539	ENSG000000142611.17	PRDM16 HGNC:14000	
## 5540	ENSG000000142611.17	PRDM16 HGNC:14000	
## 5541	ENSG000000142611.17	PRDM16 HGNC:14000	
## 5542	ENSG000000142611.17	PRDM16 HGNC:14000	
## 5543	ENSG000000142611.17	PRDM16 HGNC:14000	
## 5544	ENSG000000142611.17	PRDM16 HGNC:14000	
## 5545	ENSG000000142611.17	PRDM16 HGNC:14000	
## 5546	ENSG000000142611.17	PRDM16 HGNC:14000	
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## 5549	ENSG000000142611.17	PRDM16 HGNC:14000	
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## 5552	ENSG000000142611.17	PRDM16 HGNC:14000	
## 5553	ENSG000000142611.17	PRDM16 HGNC:14000	
## 5554	ENSG000000142611.17	PRDM16 HGNC:14000	
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## 5556	ENSG000000142611.17	PRDM16 HGNC:14000	
## 5557	ENSG000000142611.17	PRDM16 HGNC:14000	
## 5558	ENSG000000142611.17	PRDM16 HGNC:14000	
## 5559	ENSG000000142611.17	PRDM16 HGNC:14000	
## 5560	ENSG000000142611.17	PRDM16 HGNC:14000	
## 5561	ENSG000000142611.17	PRDM16 HGNC:14000	

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## 5670	ENSG00000142611.17	PRDM16	HGNC:14000
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## 5698	ENSG00000226286.1	AL008733.1	<NA>
## 5699	ENSG00000279839.1	AL512383.1	<NA>
## 5700	ENSG00000279839.1	AL512383.1	<NA>
## 5701	ENSG00000279839.1	AL512383.1	<NA>
## 5702	ENSG00000272235.1	AL590438.1	<NA>
## 5703	ENSG00000272235.1	AL590438.1	<NA>
## 5704	ENSG00000272235.1	AL590438.1	<NA>
## 5705	ENSG00000287828.1	AL354743.2	<NA>
## 5706	ENSG00000287828.1	AL354743.2	<NA>
## 5707	ENSG00000287828.1	AL354743.2	<NA>
## 5708	ENSG00000287828.1	AL354743.2	<NA>
## 5709	ENSG00000286518.1	AL354743.1	<NA>
## 5710	ENSG00000286518.1	AL354743.1	<NA>
## 5711	ENSG00000286518.1	AL354743.1	<NA>
## 5712	ENSG00000286518.1	AL354743.1	<NA>
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## 5714	ENSG00000130762.15	ARHGEF16	HGNC:15515
## 5715	ENSG00000130762.15	ARHGEF16	HGNC:15515
## 5716	ENSG00000130762.15	ARHGEF16	HGNC:15515
## 5717	ENSG00000130762.15	ARHGEF16	HGNC:15515
## 5718	ENSG00000130762.15	ARHGEF16	HGNC:15515
## 5719	ENSG00000130762.15	ARHGEF16	HGNC:15515
## 5720	ENSG00000130762.15	ARHGEF16	HGNC:15515
## 5721	ENSG00000130762.15	ARHGEF16	HGNC:15515
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## 5784	ENSG00000130762.15	ARHGEF16	HGNC:15515
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## 5790	ENSG00000130762.15	ARHGEF16	HGNC:15515
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## 5793	ENSG00000130762.15	ARHGEF16	HGNC:15515
## 5794	ENSG00000130762.15	ARHGEF16	HGNC:15515
## 5795	ENSG00000130762.15	ARHGEF16	HGNC:15515
## 5796	ENSG00000130762.15	ARHGEF16	HGNC:15515
## 5797	ENSG00000130762.15	ARHGEF16	HGNC:15515
## 5798	ENSG00000130762.15	ARHGEF16	HGNC:15515
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## 5808	ENSG00000130762.15	ARHGEF16	HGNC:15515
## 5809	ENSG00000272088.1	AL512413.1	<NA>
## 5810	ENSG00000272088.1	AL512413.1	<NA>
## 5811	ENSG00000272088.1	AL512413.1	<NA>
## 5812	ENSG00000162591.16	MEGF6	HGNC:3232
## 5813	ENSG00000162591.16	MEGF6	HGNC:3232
## 5814	ENSG00000162591.16	MEGF6	HGNC:3232
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## 5816	ENSG00000162591.16	MEGF6	HGNC:3232
## 5817	ENSG00000162591.16	MEGF6	HGNC:3232
## 5818	ENSG00000162591.16	MEGF6	HGNC:3232
## 5819	ENSG00000162591.16	MEGF6	HGNC:3232
## 5820	ENSG00000162591.16	MEGF6	HGNC:3232
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## 5828	ENSG00000162591.16	MEGF6	HGNC:3232
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## 5830	ENSG00000162591.16	MEGF6	HGNC:3232
## 5831	ENSG00000162591.16	MEGF6	HGNC:3232

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## 5940	ENSG00000162591.16	MEGF6	HGNC:3232
## 5941	ENSG00000162591.16	MEGF6	HGNC:3232
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## 5957	ENSG00000207776.1	MIR551A	HGNC:32806
## 5958	ENSG00000207776.1	MIR551A	HGNC:32806
## 5959	ENSG00000207776.1	MIR551A	HGNC:32806
## 5960	ENSG00000238260.1	AL513320.1	<NA>
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## 5965	ENSG00000158109.15	TPRG1L	HGNC:27007
## 5966	ENSG00000158109.15	TPRG1L	HGNC:27007
## 5967	ENSG00000158109.15	TPRG1L	HGNC:27007
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## 5983	ENSG00000158109.15	TPRG1L	HGNC:27007
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[illegible]

[illegible]

[illegible]

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[illegible]

[illegible]

## 6318	ENSG00000078900.15	TP73	HGNC:12003
## 6319	ENSG00000078900.15	TP73	HGNC:12003
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## 6360	ENSG00000078900.15	TP73	HGNC:12003
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## 6372	ENSG00000235131.1	AL136528.2	<NA>
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## 6375	ENSG00000227372.12	TP73-AS1	HGNC:29052
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## 6380	ENSG00000227372.12	TP73-AS1	HGNC:29052
## 6381	ENSG00000227372.12	TP73-AS1	HGNC:29052
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## 6387	ENSG00000227372.12	TP73-AS1	HGNC:29052
## 6388	ENSG00000227372.12	TP73-AS1	HGNC:29052
## 6389	ENSG00000227372.12	TP73-AS1	HGNC:29052
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## 6391	ENSG00000227372.12	TP73-AS1	HGNC:29052
## 6392	ENSG00000227372.12	TP73-AS1	HGNC:29052
## 6393	ENSG00000227372.12	TP73-AS1	HGNC:29052
## 6394	ENSG00000227372.12	TP73-AS1	HGNC:29052
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## 6398	ENSG00000276189.1	RF02197	<NA>
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## 6402	ENSG00000162592.10	CCDC27	HGNC:26546
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## 6404	ENSG00000162592.10	CCDC27	HGNC:26546
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## 6426	ENSG00000162592.10	CCDC27	HGNC:26546
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## 6429	ENSG00000162592.10	CCDC27	HGNC:26546
## 6430	ENSG00000162592.10	CCDC27	HGNC:26546
## 6431	ENSG00000235169.8	SMIM1	HGNC:44204
## 6432	ENSG00000235169.8	SMIM1	HGNC:44204
## 6433	ENSG00000235169.8	SMIM1	HGNC:44204
## 6434	ENSG00000235169.8	SMIM1	HGNC:44204
## 6435	ENSG00000235169.8	SMIM1	HGNC:44204
## 6436	ENSG00000235169.8	SMIM1	HGNC:44204
## 6437	ENSG00000235169.8	SMIM1	HGNC:44204
## 6438	ENSG00000235169.8	SMIM1	HGNC:44204
## 6439	ENSG00000235169.8	SMIM1	HGNC:44204
## 6440	ENSG00000235169.8	SMIM1	HGNC:44204
## 6441	ENSG00000235169.8	SMIM1	HGNC:44204
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## 6445	ENSG00000235169.8	SMIM1	HGNC:44204
## 6446	ENSG00000235169.8	SMIM1	HGNC:44204
## 6447	ENSG00000235169.8	SMIM1	HGNC:44204
## 6448	ENSG00000235169.8	SMIM1	HGNC:44204
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## 6450	ENSG00000235169.8	SMIM1	HGNC:44204
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## 6456	ENSG00000130764.10	LRRC47	HGNC:29207
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## 6476	ENSG00000266075.2	RN7SL574P	HGNC:46590
## 6477	ENSG00000266075.2	RN7SL574P	HGNC:46590
## 6478	ENSG00000266075.2	RN7SL574P	HGNC:46590
## 6479	ENSG00000272153.1	AL365330.1	<NA>

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## 6588	ENSG00000169598.15	DFFB	HGNC:2773
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## 6599	ENSG00000169598.15	DFFB	HGNC:2773
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## 6615	ENSG00000198912.11	C1orf174	HGNC:27915
## 6616	ENSG00000198912.11	C1orf174	HGNC:27915
## 6617	ENSG00000198912.11	C1orf174	HGNC:27915
## 6618	ENSG00000198912.11	C1orf174	HGNC:27915
## 6619	ENSG00000198912.11	C1orf174	HGNC:27915
## 6620	ENSG00000198912.11	C1orf174	HGNC:27915
## 6621	ENSG00000198912.11	C1orf174	HGNC:27915
## 6622	ENSG00000198912.11	C1orf174	HGNC:27915
## 6623	ENSG00000198912.11	C1orf174	HGNC:27915
## 6624	ENSG00000198912.11	C1orf174	HGNC:27915
## 6625	ENSG00000198912.11	C1orf174	HGNC:27915
## 6626	ENSG00000198912.11	C1orf174	HGNC:27915
## 6627	ENSG00000198912.11	C1orf174	HGNC:27915
## 6628	ENSG00000236423.6	LINC01134	HGNC:49449
## 6629	ENSG00000236423.6	LINC01134	HGNC:49449
## 6630	ENSG00000236423.6	LINC01134	HGNC:49449
## 6631	ENSG00000236423.6	LINC01134	HGNC:49449
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## 7818	ENSG000000097021.19	ACOT7 HGNC:24157
## 7819	ENSG000000097021.19	ACOT7 HGNC:24157
## 7820	ENSG000000097021.19	ACOT7 HGNC:24157
## 7821	ENSG000000097021.19	ACOT7 HGNC:24157
## 7822	ENSG000000097021.19	ACOT7 HGNC:24157
## 7823	ENSG000000097021.19	ACOT7 HGNC:24157
## 7824	ENSG000000097021.19	ACOT7 HGNC:24157
## 7825	ENSG000000097021.19	ACOT7 HGNC:24157
## 7826	ENSG000000097021.19	ACOT7 HGNC:24157
## 7827	ENSG000000097021.19	ACOT7 HGNC:24157
## 7828	ENSG000000097021.19	ACOT7 HGNC:24157
## 7829	ENSG000000097021.19	ACOT7 HGNC:24157

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## 7938	ENSG00000097021.19	ACOT7	HGNC:24157
## 7939	ENSG00000097021.19	ACOT7	HGNC:24157
## 7940	ENSG00000097021.19	ACOT7	HGNC:24157
## 7941	ENSG00000097021.19	ACOT7	HGNC:24157
## 7942	ENSG00000097021.19	ACOT7	HGNC:24157
## 7943	ENSG00000097021.19	ACOT7	HGNC:24157
## 7944	ENSG00000097021.19	ACOT7	HGNC:24157
## 7945	ENSG00000097021.19	ACOT7	HGNC:24157
## 7946	ENSG00000097021.19	ACOT7	HGNC:24157
## 7947	ENSG00000097021.19	ACOT7	HGNC:24157
## 7948	ENSG00000097021.19	ACOT7	HGNC:24157
## 7949	ENSG00000097021.19	ACOT7	HGNC:24157
## 7950	ENSG00000097021.19	ACOT7	HGNC:24157
## 7951	ENSG00000097021.19	ACOT7	HGNC:24157
## 7952	ENSG00000097021.19	ACOT7	HGNC:24157
## 7953	ENSG00000097021.19	ACOT7	HGNC:24157
## 7954	ENSG00000097021.19	ACOT7	HGNC:24157
## 7955	ENSG00000271746.1	AL031848.2	<NA>
## 7956	ENSG00000271746.1	AL031848.2	<NA>
## 7957	ENSG00000271746.1	AL031848.2	<NA>
## 7958	ENSG00000069812.11	HES2	HGNC:16005
## 7959	ENSG00000069812.11	HES2	HGNC:16005
## 7960	ENSG00000069812.11	HES2	HGNC:16005
## 7961	ENSG00000069812.11	HES2	HGNC:16005
## 7962	ENSG00000069812.11	HES2	HGNC:16005
## 7963	ENSG00000069812.11	HES2	HGNC:16005
## 7964	ENSG00000069812.11	HES2	HGNC:16005
## 7965	ENSG00000069812.11	HES2	HGNC:16005
## 7966	ENSG00000069812.11	HES2	HGNC:16005
## 7967	ENSG00000069812.11	HES2	HGNC:16005
## 7968	ENSG00000069812.11	HES2	HGNC:16005
## 7969	ENSG00000069812.11	HES2	HGNC:16005
## 7970	ENSG00000069812.11	HES2	HGNC:16005
## 7971	ENSG00000069812.11	HES2	HGNC:16005
## 7972	ENSG00000069812.11	HES2	HGNC:16005
## 7973	ENSG00000069812.11	HES2	HGNC:16005
## 7974	ENSG00000069812.11	HES2	HGNC:16005
## 7975	ENSG00000069812.11	HES2	HGNC:16005
## 7976	ENSG00000069812.11	HES2	HGNC:16005
## 7977	ENSG00000069812.11	HES2	HGNC:16005
## 7978	ENSG00000069812.11	HES2	HGNC:16005
## 7979	ENSG00000069812.11	HES2	HGNC:16005
## 7980	ENSG00000069812.11	HES2	HGNC:16005
## 7981	ENSG00000069812.11	HES2	HGNC:16005
## 7982	ENSG00000069812.11	HES2	HGNC:16005
## 7983	ENSG00000069812.11	HES2	HGNC:16005
## 7984	ENSG00000069812.11	HES2	HGNC:16005
## 7985	ENSG00000069812.11	HES2	HGNC:16005
## 7986	ENSG00000069812.11	HES2	HGNC:16005
## 7987	ENSG00000069812.11	HES2	HGNC:16005
## 7988	ENSG00000069812.11	HES2	HGNC:16005
## 7989	ENSG00000069812.11	HES2	HGNC:16005
## 7990	ENSG00000069812.11	HES2	HGNC:16005
## 7991	ENSG00000069812.11	HES2	HGNC:16005

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## 8100	ENSG00000187017.17	ESPN	HGNC:13281
## 8101	ENSG00000187017.17	ESPN	HGNC:13281
## 8102	ENSG00000187017.17	ESPN	HGNC:13281
## 8103	ENSG00000187017.17	ESPN	HGNC:13281
## 8104	ENSG00000187017.17	ESPN	HGNC:13281
## 8105	ENSG00000187017.17	ESPN	HGNC:13281
## 8106	ENSG00000187017.17	ESPN	HGNC:13281
## 8107	ENSG00000187017.17	ESPN	HGNC:13281
## 8108	ENSG00000187017.17	ESPN	HGNC:13281
## 8109	ENSG00000187017.17	ESPN	HGNC:13281
## 8110	ENSG00000187017.17	ESPN	HGNC:13281
## 8111	ENSG00000187017.17	ESPN	HGNC:13281
## 8112	ENSG00000187017.17	ESPN	HGNC:13281
## 8113	ENSG00000187017.17	ESPN	HGNC:13281
## 8114	ENSG00000187017.17	ESPN	HGNC:13281
## 8115	ENSG00000187017.17	ESPN	HGNC:13281
## 8116	ENSG00000187017.17	ESPN	HGNC:13281
## 8117	ENSG00000187017.17	ESPN	HGNC:13281
## 8118	ENSG00000187017.17	ESPN	HGNC:13281
## 8119	ENSG00000265392.1	MIR4252	HGNC:38384
## 8120	ENSG00000265392.1	MIR4252	HGNC:38384
## 8121	ENSG00000265392.1	MIR4252	HGNC:38384
## 8122	ENSG00000231868.1	AL031848.1	<NA>
## 8123	ENSG00000231868.1	AL031848.1	<NA>
## 8124	ENSG00000231868.1	AL031848.1	<NA>
## 8125	ENSG00000231868.1	AL031848.1	<NA>
## 8126	ENSG00000231868.1	AL031848.1	<NA>
## 8127	ENSG00000215788.10	TNFRSF25	HGNC:11910
## 8128	ENSG00000215788.10	TNFRSF25	HGNC:11910
## 8129	ENSG00000215788.10	TNFRSF25	HGNC:11910
## 8130	ENSG00000215788.10	TNFRSF25	HGNC:11910
## 8131	ENSG00000215788.10	TNFRSF25	HGNC:11910
## 8132	ENSG00000215788.10	TNFRSF25	HGNC:11910
## 8133	ENSG00000215788.10	TNFRSF25	HGNC:11910
## 8134	ENSG00000215788.10	TNFRSF25	HGNC:11910
## 8135	ENSG00000215788.10	TNFRSF25	HGNC:11910
## 8136	ENSG00000215788.10	TNFRSF25	HGNC:11910
## 8137	ENSG00000215788.10	TNFRSF25	HGNC:11910
## 8138	ENSG00000215788.10	TNFRSF25	HGNC:11910
## 8139	ENSG00000215788.10	TNFRSF25	HGNC:11910
## 8140	ENSG00000215788.10	TNFRSF25	HGNC:11910
## 8141	ENSG00000215788.10	TNFRSF25	HGNC:11910
## 8142	ENSG00000215788.10	TNFRSF25	HGNC:11910
## 8143	ENSG00000215788.10	TNFRSF25	HGNC:11910
## 8144	ENSG00000215788.10	TNFRSF25	HGNC:11910
## 8145	ENSG00000215788.10	TNFRSF25	HGNC:11910
## 8146	ENSG00000215788.10	TNFRSF25	HGNC:11910
## 8147	ENSG00000215788.10	TNFRSF25	HGNC:11910
## 8148	ENSG00000215788.10	TNFRSF25	HGNC:11910
## 8149	ENSG00000215788.10	TNFRSF25	HGNC:11910
## 8150	ENSG00000215788.10	TNFRSF25	HGNC:11910
## 8151	ENSG00000215788.10	TNFRSF25	HGNC:11910
## 8152	ENSG00000215788.10	TNFRSF25	HGNC:11910
## 8153	ENSG00000215788.10	TNFRSF25	HGNC:11910

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[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

## 8748	ENSG000000253022.1	RNU6-731P	HGNC:47694
## 8749	ENSG000000253022.1	RNU6-731P	HGNC:47694
## 8750	ENSG000000253022.1	RNU6-731P	HGNC:47694
## 8751	ENSG000000229519.2	AL591866.1	<NA>
## 8752	ENSG000000229519.2	AL591866.1	<NA>
## 8753	ENSG000000229519.2	AL591866.1	<NA>
## 8754	ENSG000000229519.2	AL591866.1	<NA>
## 8755	ENSG00000173662.21	TAS1R1	HGNC:14448
## 8756	ENSG00000173662.21	TAS1R1	HGNC:14448
## 8757	ENSG00000173662.21	TAS1R1	HGNC:14448
## 8758	ENSG00000173662.21	TAS1R1	HGNC:14448
## 8759	ENSG00000173662.21	TAS1R1	HGNC:14448
## 8760	ENSG00000173662.21	TAS1R1	HGNC:14448
## 8761	ENSG00000173662.21	TAS1R1	HGNC:14448
## 8762	ENSG00000173662.21	TAS1R1	HGNC:14448
## 8763	ENSG00000173662.21	TAS1R1	HGNC:14448
## 8764	ENSG00000173662.21	TAS1R1	HGNC:14448
## 8765	ENSG00000173662.21	TAS1R1	HGNC:14448
## 8766	ENSG00000173662.21	TAS1R1	HGNC:14448
## 8767	ENSG00000173662.21	TAS1R1	HGNC:14448
## 8768	ENSG00000173662.21	TAS1R1	HGNC:14448
## 8769	ENSG00000173662.21	TAS1R1	HGNC:14448
## 8770	ENSG00000173662.21	TAS1R1	HGNC:14448
## 8771	ENSG00000173662.21	TAS1R1	HGNC:14448
## 8772	ENSG00000173662.21	TAS1R1	HGNC:14448
## 8773	ENSG00000173662.21	TAS1R1	HGNC:14448
## 8774	ENSG00000173662.21	TAS1R1	HGNC:14448
## 8775	ENSG00000173662.21	TAS1R1	HGNC:14448
## 8776	ENSG00000173662.21	TAS1R1	HGNC:14448
## 8777	ENSG00000173662.21	TAS1R1	HGNC:14448
## 8778	ENSG00000173662.21	TAS1R1	HGNC:14448
## 8779	ENSG00000173662.21	TAS1R1	HGNC:14448
## 8780	ENSG00000173662.21	TAS1R1	HGNC:14448
## 8781	ENSG00000173662.21	TAS1R1	HGNC:14448
## 8782	ENSG00000173662.21	TAS1R1	HGNC:14448
## 8783	ENSG00000173662.21	TAS1R1	HGNC:14448
## 8784	ENSG00000173662.21	TAS1R1	HGNC:14448
## 8785	ENSG00000173662.21	TAS1R1	HGNC:14448
## 8786	ENSG00000173662.21	TAS1R1	HGNC:14448
## 8787	ENSG00000173662.21	TAS1R1	HGNC:14448
## 8788	ENSG00000204859.13	ZBTB48	HGNC:4930
## 8789	ENSG00000204859.13	ZBTB48	HGNC:4930
## 8790	ENSG00000204859.13	ZBTB48	HGNC:4930
## 8791	ENSG00000204859.13	ZBTB48	HGNC:4930
## 8792	ENSG00000204859.13	ZBTB48	HGNC:4930
## 8793	ENSG00000204859.13	ZBTB48	HGNC:4930
## 8794	ENSG00000204859.13	ZBTB48	HGNC:4930
## 8795	ENSG00000204859.13	ZBTB48	HGNC:4930
## 8796	ENSG00000204859.13	ZBTB48	HGNC:4930
## 8797	ENSG00000204859.13	ZBTB48	HGNC:4930
## 8798	ENSG00000204859.13	ZBTB48	HGNC:4930
## 8799	ENSG00000204859.13	ZBTB48	HGNC:4930
## 8800	ENSG00000204859.13	ZBTB48	HGNC:4930
## 8801	ENSG00000204859.13	ZBTB48	HGNC:4930

[illegible]

## 8856	ENSG00000162413.16	KLHL21	HGNC:29041
## 8857	ENSG00000162413.16	KLHL21	HGNC:29041
## 8858	ENSG00000162413.16	KLHL21	HGNC:29041
## 8859	ENSG00000162413.16	KLHL21	HGNC:29041
## 8860	ENSG00000162413.16	KLHL21	HGNC:29041
## 8861	ENSG00000162413.16	KLHL21	HGNC:29041
## 8862	ENSG00000162413.16	KLHL21	HGNC:29041
## 8863	ENSG00000162413.16	KLHL21	HGNC:29041
## 8864	ENSG00000162413.16	KLHL21	HGNC:29041
## 8865	ENSG00000162413.16	KLHL21	HGNC:29041
## 8866	ENSG00000162413.16	KLHL21	HGNC:29041
## 8867	ENSG00000162413.16	KLHL21	HGNC:29041
## 8868	ENSG00000162413.16	KLHL21	HGNC:29041
## 8869	ENSG00000162413.16	KLHL21	HGNC:29041
## 8870	ENSG00000162413.16	KLHL21	HGNC:29041
## 8871	ENSG00000162413.16	KLHL21	HGNC:29041
## 8872	ENSG00000162413.16	KLHL21	HGNC:29041
## 8873	ENSG00000162413.16	KLHL21	HGNC:29041
## 8874	ENSG00000162413.16	KLHL21	HGNC:29041
## 8875	ENSG00000116273.6	PHF13	HGNC:22983
## 8876	ENSG00000116273.6	PHF13	HGNC:22983
## 8877	ENSG00000116273.6	PHF13	HGNC:22983
## 8878	ENSG00000116273.6	PHF13	HGNC:22983
## 8879	ENSG00000116273.6	PHF13	HGNC:22983
## 8880	ENSG00000116273.6	PHF13	HGNC:22983
## 8881	ENSG00000116273.6	PHF13	HGNC:22983
## 8882	ENSG00000116273.6	PHF13	HGNC:22983
## 8883	ENSG00000116273.6	PHF13	HGNC:22983
## 8884	ENSG00000116273.6	PHF13	HGNC:22983
## 8885	ENSG00000116273.6	PHF13	HGNC:22983
## 8886	ENSG00000116273.6	PHF13	HGNC:22983
## 8887	ENSG00000116273.6	PHF13	HGNC:22983
## 8888	ENSG00000116273.6	PHF13	HGNC:22983
## 8889	ENSG00000041988.15	THAP3	HGNC:20855
## 8890	ENSG00000041988.15	THAP3	HGNC:20855
## 8891	ENSG00000041988.15	THAP3	HGNC:20855
## 8892	ENSG00000041988.15	THAP3	HGNC:20855
## 8893	ENSG00000041988.15	THAP3	HGNC:20855
## 8894	ENSG00000041988.15	THAP3	HGNC:20855
## 8895	ENSG00000041988.15	THAP3	HGNC:20855
## 8896	ENSG00000041988.15	THAP3	HGNC:20855
## 8897	ENSG00000041988.15	THAP3	HGNC:20855
## 8898	ENSG00000041988.15	THAP3	HGNC:20855
## 8899	ENSG00000041988.15	THAP3	HGNC:20855
## 8900	ENSG00000041988.15	THAP3	HGNC:20855
## 8901	ENSG00000041988.15	THAP3	HGNC:20855
## 8902	ENSG00000041988.15	THAP3	HGNC:20855
## 8903	ENSG00000041988.15	THAP3	HGNC:20855
## 8904	ENSG00000041988.15	THAP3	HGNC:20855
## 8905	ENSG00000041988.15	THAP3	HGNC:20855
## 8906	ENSG00000041988.15	THAP3	HGNC:20855
## 8907	ENSG00000041988.15	THAP3	HGNC:20855
## 8908	ENSG00000041988.15	THAP3	HGNC:20855
## 8909	ENSG00000041988.15	THAP3	HGNC:20855

[illegible]

[illegible]

## 9018	ENSG000000284744.1	AL591163.1	<NA>
## 9019	ENSG000000284744.1	AL591163.1	<NA>
## 9020	ENSG000000284744.1	AL591163.1	<NA>
## 9021	ENSG000000284744.1	AL591163.1	<NA>
## 9022	ENSG000000284744.1	AL591163.1	<NA>
## 9023	ENSG000000237436.1	CAMTA1-DT	HGNC:53020
## 9024	ENSG000000237436.1	CAMTA1-DT	HGNC:53020
## 9025	ENSG000000237436.1	CAMTA1-DT	HGNC:53020
## 9026	ENSG000000237436.1	CAMTA1-DT	HGNC:53020
## 9027	ENSG000000237436.1	CAMTA1-DT	HGNC:53020
## 9028	ENSG000000171735.19	CAMTA1	HGNC:18806
## 9029	ENSG000000171735.19	CAMTA1	HGNC:18806
## 9030	ENSG000000171735.19	CAMTA1	HGNC:18806
## 9031	ENSG000000171735.19	CAMTA1	HGNC:18806
## 9032	ENSG000000171735.19	CAMTA1	HGNC:18806
## 9033	ENSG000000171735.19	CAMTA1	HGNC:18806
## 9034	ENSG000000171735.19	CAMTA1	HGNC:18806
## 9035	ENSG000000171735.19	CAMTA1	HGNC:18806
## 9036	ENSG000000171735.19	CAMTA1	HGNC:18806
## 9037	ENSG000000171735.19	CAMTA1	HGNC:18806
## 9038	ENSG000000171735.19	CAMTA1	HGNC:18806
## 9039	ENSG000000171735.19	CAMTA1	HGNC:18806
## 9040	ENSG000000171735.19	CAMTA1	HGNC:18806
## 9041	ENSG000000171735.19	CAMTA1	HGNC:18806
## 9042	ENSG000000171735.19	CAMTA1	HGNC:18806
## 9043	ENSG000000171735.19	CAMTA1	HGNC:18806
## 9044	ENSG000000171735.19	CAMTA1	HGNC:18806
## 9045	ENSG000000171735.19	CAMTA1	HGNC:18806
## 9046	ENSG000000171735.19	CAMTA1	HGNC:18806
## 9047	ENSG000000171735.19	CAMTA1	HGNC:18806
## 9048	ENSG000000171735.19	CAMTA1	HGNC:18806
## 9049	ENSG000000171735.19	CAMTA1	HGNC:18806
## 9050	ENSG000000171735.19	CAMTA1	HGNC:18806
## 9051	ENSG000000171735.19	CAMTA1	HGNC:18806
## 9052	ENSG000000171735.19	CAMTA1	HGNC:18806
## 9053	ENSG000000171735.19	CAMTA1	HGNC:18806
## 9054	ENSG000000171735.19	CAMTA1	HGNC:18806
## 9055	ENSG000000171735.19	CAMTA1	HGNC:18806
## 9056	ENSG000000171735.19	CAMTA1	HGNC:18806
## 9057	ENSG000000171735.19	CAMTA1	HGNC:18806
## 9058	ENSG000000171735.19	CAMTA1	HGNC:18806
## 9059	ENSG000000171735.19	CAMTA1	HGNC:18806
## 9060	ENSG000000171735.19	CAMTA1	HGNC:18806
## 9061	ENSG000000171735.19	CAMTA1	HGNC:18806
## 9062	ENSG000000171735.19	CAMTA1	HGNC:18806
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## 9065	ENSG000000171735.19	CAMTA1	HGNC:18806
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## 9067	ENSG000000171735.19	CAMTA1	HGNC:18806
## 9068	ENSG000000171735.19	CAMTA1	HGNC:18806
## 9069	ENSG000000171735.19	CAMTA1	HGNC:18806
## 9070	ENSG000000171735.19	CAMTA1	HGNC:18806
## 9071	ENSG000000171735.19	CAMTA1	HGNC:18806

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## 9126	ENSG00000171735.19	CAMTA1	HGNC:18806
## 9127	ENSG00000171735.19	CAMTA1	HGNC:18806
## 9128	ENSG00000171735.19	CAMTA1	HGNC:18806
## 9129	ENSG00000171735.19	CAMTA1	HGNC:18806
## 9130	ENSG00000171735.19	CAMTA1	HGNC:18806
## 9131	ENSG00000171735.19	CAMTA1	HGNC:18806
## 9132	ENSG00000171735.19	CAMTA1	HGNC:18806
## 9133	ENSG00000171735.19	CAMTA1	HGNC:18806
## 9134	ENSG00000171735.19	CAMTA1	HGNC:18806
## 9135	ENSG00000227950.1	AL590128.1	<NA>
## 9136	ENSG00000227950.1	AL590128.1	<NA>
## 9137	ENSG00000227950.1	AL590128.1	<NA>
## 9138	ENSG00000237365.1	AL512330.1	<NA>
## 9139	ENSG00000237365.1	AL512330.1	<NA>
## 9140	ENSG00000237365.1	AL512330.1	<NA>
## 9141	ENSG00000237365.1	AL512330.1	<NA>
## 9142	ENSG00000207056.1	RNU1-8P	HGNC:48307
## 9143	ENSG00000207056.1	RNU1-8P	HGNC:48307
## 9144	ENSG00000207056.1	RNU1-8P	HGNC:48307
## 9145	ENSG00000237402.1	CAMTA1-IT1	HGNC:41446
## 9146	ENSG00000237402.1	CAMTA1-IT1	HGNC:41446
## 9147	ENSG00000237402.1	CAMTA1-IT1	HGNC:41446
## 9148	ENSG00000237402.1	CAMTA1-IT1	HGNC:41446
## 9149	ENSG00000237728.2	Z97987.1	<NA>
## 9150	ENSG00000237728.2	Z97987.1	<NA>
## 9151	ENSG00000237728.2	Z97987.1	<NA>
## 9152	ENSG00000237728.2	Z97987.1	<NA>
## 9153	ENSG00000237728.2	Z97987.1	<NA>
## 9154	ENSG00000237728.2	Z97987.1	<NA>
## 9155	ENSG00000237728.2	Z97987.1	<NA>
## 9156	ENSG00000237728.2	Z97987.1	<NA>
## 9157	ENSG00000225126.1	AL365194.1	<NA>
## 9158	ENSG00000225126.1	AL365194.1	<NA>
## 9159	ENSG00000225126.1	AL365194.1	<NA>
## 9160	ENSG00000225126.1	AL365194.1	<NA>
## 9161	ENSG00000270171.1	AL359881.3	<NA>
## 9162	ENSG00000270171.1	AL359881.3	<NA>
## 9163	ENSG00000270171.1	AL359881.3	<NA>
## 9164	ENSG00000270035.1	AL359881.2	<NA>
## 9165	ENSG00000270035.1	AL359881.2	<NA>
## 9166	ENSG00000270035.1	AL359881.2	<NA>
## 9167	ENSG00000269978.1	AL359881.1	<NA>
## 9168	ENSG00000269978.1	AL359881.1	<NA>
## 9169	ENSG00000269978.1	AL359881.1	<NA>
## 9170	ENSG00000049245.13	VAMP3	HGNC:12644
## 9171	ENSG00000049245.13	VAMP3	HGNC:12644
## 9172	ENSG00000049245.13	VAMP3	HGNC:12644
## 9173	ENSG00000049245.13	VAMP3	HGNC:12644
## 9174	ENSG00000049245.13	VAMP3	HGNC:12644
## 9175	ENSG00000049245.13	VAMP3	HGNC:12644
## 9176	ENSG00000049245.13	VAMP3	HGNC:12644
## 9177	ENSG00000049245.13	VAMP3	HGNC:12644
## 9178	ENSG00000049245.13	VAMP3	HGNC:12644
## 9179	ENSG00000049245.13	VAMP3	HGNC:12644

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## 9214 ENSG00000049246.14	PER3 HGNC:8847
## 9215 ENSG00000049246.14	PER3 HGNC:8847
## 9216 ENSG00000049246.14	PER3 HGNC:8847
## 9217 ENSG00000049246.14	PER3 HGNC:8847
## 9218 ENSG00000049246.14	PER3 HGNC:8847
## 9219 ENSG00000049246.14	PER3 HGNC:8847
## 9220 ENSG00000049246.14	PER3 HGNC:8847
## 9221 ENSG00000049246.14	PER3 HGNC:8847
## 9222 ENSG00000049246.14	PER3 HGNC:8847
## 9223 ENSG00000049246.14	PER3 HGNC:8847
## 9224 ENSG00000049246.14	PER3 HGNC:8847
## 9225 ENSG00000049246.14	PER3 HGNC:8847
## 9226 ENSG00000049246.14	PER3 HGNC:8847
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## 9231 ENSG00000049246.14	PER3 HGNC:8847
## 9232 ENSG00000049246.14	PER3 HGNC:8847
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[illegible]

## 9396	ENSG00000049246.14	PER3	HGNC:8847
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## 9430	ENSG00000049247.13	UTS2	HGNC:12636
## 9431	ENSG00000049247.13	UTS2	HGNC:12636
## 9432	ENSG00000049247.13	UTS2	HGNC:12636
## 9433	ENSG00000049247.13	UTS2	HGNC:12636
## 9434	ENSG00000049247.13	UTS2	HGNC:12636
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## 9437	ENSG00000049247.13	UTS2	HGNC:12636
## 9438	ENSG00000049247.13	UTS2	HGNC:12636
## 9439	ENSG00000049247.13	UTS2	HGNC:12636
## 9440	ENSG00000049247.13	UTS2	HGNC:12636
## 9441	ENSG00000049247.13	UTS2	HGNC:12636
## 9442	ENSG00000049247.13	UTS2	HGNC:12636
## 9443	ENSG00000049247.13	UTS2	HGNC:12636
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## 9447	ENSG00000049247.13	UTS2	HGNC:12636
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## 9449	ENSG00000049247.13	UTS2	HGNC:12636

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## 9504	ENSG00000049249.8	TNFRSF9	HGNC:11924
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## 9506	ENSG00000049249.8	TNFRSF9	HGNC:11924
## 9507	ENSG00000049249.8	TNFRSF9	HGNC:11924
## 9508	ENSG00000049249.8	TNFRSF9	HGNC:11924
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## 9510	ENSG00000049249.8	TNFRSF9	HGNC:11924
## 9511	ENSG00000049249.8	TNFRSF9	HGNC:11924
## 9512	ENSG00000049249.8	TNFRSF9	HGNC:11924
## 9513	ENSG00000049249.8	TNFRSF9	HGNC:11924
## 9514	ENSG00000049249.8	TNFRSF9	HGNC:11924
## 9515	ENSG00000049249.8	TNFRSF9	HGNC:11924
## 9516	ENSG00000049249.8	TNFRSF9	HGNC:11924
## 9517	ENSG00000049249.8	TNFRSF9	HGNC:11924
## 9518	ENSG00000049249.8	TNFRSF9	HGNC:11924
## 9519	ENSG00000049249.8	TNFRSF9	HGNC:11924
## 9520	ENSG00000049249.8	TNFRSF9	HGNC:11924
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## 9616	ENSG00000116288.13	PARK7	HGNC:16369
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## 9618	ENSG00000116288.13	PARK7	HGNC:16369
## 9619	ENSG00000200344.1	RF00019	<NA>
## 9620	ENSG00000200344.1	RF00019	<NA>
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## 9622	ENSG00000284747.1	AL034417.4	<NA>
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## 9638	ENSG00000116285.13	ERRFI1	HGNC:18185
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## 9649	ENSG00000116285.13	ERRFI1	HGNC:18185
## 9650	ENSG00000116285.13	ERRFI1	HGNC:18185
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## 9687	ENSG00000232848.1	AL034417.1	<NA>
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## 9691	ENSG00000229305.1	AL358876.1	<NA>
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## 9698	ENSG00000227634.3	LINC01714	HGNC:52501
## 9699	ENSG00000227634.3	LINC01714	HGNC:52501
## 9700	ENSG00000227634.3	LINC01714	HGNC:52501
## 9701	ENSG00000227634.3	LINC01714	HGNC:52501
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## 9703	ENSG00000227634.3	LINC01714	HGNC:52501
## 9704	ENSG00000227634.3	LINC01714	HGNC:52501
## 9705	ENSG00000227634.3	LINC01714	HGNC:52501
## 9706	ENSG00000227634.3	LINC01714	HGNC:52501
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## 9718	ENSG00000251977.1	RNU6-991P	HGNC:47954
## 9719	ENSG00000162426.14	SLC45A1	HGNC:17939

## 9720	ENSG00000162426.14	SLC45A1	HGNC:17939
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[illegible]

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[illegible]

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##	9993	ENSG00000142599.19	RERE	HGNC:9965				
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##	9995	ENSG00000142599.19	RERE	HGNC:9965				
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##	9997	ENSG00000142599.19	RERE	HGNC:9965				
##	9998	ENSG00000142599.19	RERE	HGNC:9965				
##	9999	ENSG00000142599.19	RERE	HGNC:9965				
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##	2	transcribed_unprocessed_pseudogene	chr1	11869	14409	+	1	
##	3	transcribed_unprocessed_pseudogene	chr1	11869	12227	+	1	
##	4	transcribed_unprocessed_pseudogene	chr1	12613	12721	+	1	
##	5	transcribed_unprocessed_pseudogene	chr1	13221	14409	+	1	
##	6	transcribed_unprocessed_pseudogene	chr1	12010	13670	+	1	
##	7	transcribed_unprocessed_pseudogene	chr1	12010	12057	+	1	
##	8	transcribed_unprocessed_pseudogene	chr1	12179	12227	+	1	
##	9	transcribed_unprocessed_pseudogene	chr1	12613	12697	+	1	
##	10	transcribed_unprocessed_pseudogene	chr1	12975	13052	+	1	
##	11	transcribed_unprocessed_pseudogene	chr1	13221	13374	+	1	
##	12	transcribed_unprocessed_pseudogene	chr1	13453	13670	+	1	
##	13	unprocessed_pseudogene	chr1	14404	29570	-	1	
##	14	unprocessed_pseudogene	chr1	14404	29570	-	1	
##	15	unprocessed_pseudogene	chr1	29534	29570	-	1	
##	16	unprocessed_pseudogene	chr1	24738	24891	-	1	
##	17	unprocessed_pseudogene	chr1	18268	18366	-	1	
##	18	unprocessed_pseudogene	chr1	17915	18061	-	1	
##	19	unprocessed_pseudogene	chr1	17606	17742	-	1	
##	20	unprocessed_pseudogene	chr1	17233	17368	-	1	
##	21	unprocessed_pseudogene	chr1	16858	17055	-	1	
##	22	unprocessed_pseudogene	chr1	16607	16765	-	1	
##	23	unprocessed_pseudogene	chr1	15796	15947	-	1	
##	24	unprocessed_pseudogene	chr1	15005	15038	-	1	
##	25	unprocessed_pseudogene	chr1	14404	14501	-	1	
##	26	miRNA	chr1	17369	17436	-	1	
##	27	miRNA	chr1	17369	17436	-	1	
##	28	miRNA	chr1	17369	17436	-	1	
##	29	lncRNA	chr1	29554	31109	+	1	
##	30	lncRNA	chr1	29554	31097	+	1	
##	31	lncRNA	chr1	29554	30039	+	1	
##	32	lncRNA	chr1	30564	30667	+	1	
##	33	lncRNA	chr1	30976	31097	+	1	
##	34	lncRNA	chr1	30267	31109	+	1	
##	35	lncRNA	chr1	30267	30667	+	1	
##	36	lncRNA	chr1	30976	31109	+	1	
##	37	miRNA	chr1	30366	30503	+	1	
##	38	miRNA	chr1	30366	30503	+	1	
##	39	miRNA	chr1	30366	30503	+	1	
##	40	lncRNA	chr1	34554	36081	-	1	
##	41	lncRNA	chr1	34554	36081	-	1	
##	42	lncRNA	chr1	35721	36081	-	1	
##	43	lncRNA	chr1	35277	35481	-	1	

## 44	lncRNA	chr1	34554	35174	-	1
## 45	unprocessed_pseudogene	chr1	52473	53312	+	1
## 46	unprocessed_pseudogene	chr1	52473	53312	+	1
## 47	unprocessed_pseudogene	chr1	52473	53312	+	1
## 48	transcribed_unprocessed_pseudogene	chr1	57598	64116	+	1
## 49	transcribed_unprocessed_pseudogene	chr1	57598	64116	+	1
## 50	transcribed_unprocessed_pseudogene	chr1	57598	57653	+	1
## 51	transcribed_unprocessed_pseudogene	chr1	58700	58856	+	1
## 52	transcribed_unprocessed_pseudogene	chr1	62916	64116	+	1
## 53	transcribed_unprocessed_pseudogene	chr1	62949	63887	+	1
## 54	transcribed_unprocessed_pseudogene	chr1	62949	63887	+	1
## 55	protein_coding	chr1	65419	71585	+	1
## 56	protein_coding	chr1	65419	71585	+	1
## 57	protein_coding	chr1	65419	65433	+	1
## 58	protein_coding	chr1	65520	65573	+	1
## 59	protein_coding	chr1	65565	65573	+	1
## 60	protein_coding	chr1	65565	65567	+	1
## 61	protein_coding	chr1	69037	71585	+	1
## 62	protein_coding	chr1	69037	70005	+	1
## 63	protein_coding	chr1	70006	70008	+	1
## 64	protein_coding	chr1	65419	65433	+	1
## 65	protein_coding	chr1	65520	65564	+	1
## 66	protein_coding	chr1	70006	71585	+	1
## 67	protein_coding	chr1	69055	70108	+	1
## 68	protein_coding	chr1	69055	70108	+	1
## 69	protein_coding	chr1	69091	70005	+	1
## 70	protein_coding	chr1	69091	69093	+	1
## 71	protein_coding	chr1	70006	70008	+	1
## 72	protein_coding	chr1	69055	69090	+	1
## 73	protein_coding	chr1	70006	70108	+	1
## 74	lncRNA	chr1	89295	133723	-	0
## 75	lncRNA	chr1	89295	120932	-	0
## 76	lncRNA	chr1	120775	120932	-	0
## 77	lncRNA	chr1	112700	112804	-	0
## 78	lncRNA	chr1	92091	92240	-	0
## 79	lncRNA	chr1	89295	91629	-	0
## 80	lncRNA	chr1	120725	133723	-	0
## 81	lncRNA	chr1	133374	133723	-	0
## 82	lncRNA	chr1	129055	129223	-	0
## 83	lncRNA	chr1	120874	120932	-	0
## 84	lncRNA	chr1	120725	120869	-	0
## 85	lncRNA	chr1	89551	91105	-	0
## 86	lncRNA	chr1	89551	91105	-	0
## 87	lncRNA	chr1	90287	91105	-	0
## 88	lncRNA	chr1	89551	90050	-	0
## 89	processed_pseudogene	chr1	131025	134836	+	1
## 90	processed_pseudogene	chr1	131025	134836	+	1
## 91	processed_pseudogene	chr1	131025	134836	+	1
## 92	processed_pseudogene	chr1	135141	135895	-	0
## 93	processed_pseudogene	chr1	135141	135895	-	0
## 94	processed_pseudogene	chr1	135141	135895	-	0
## 95	processed_pseudogene	chr1	137682	137965	-	0
## 96	processed_pseudogene	chr1	137682	137965	-	0
## 97	processed_pseudogene	chr1	137682	137965	-	0

## 98	lncRNA	chr1	139790	140339	-	0
## 99	lncRNA	chr1	139790	140339	-	0
## 100	lncRNA	chr1	140075	140339	-	0
## 101	lncRNA	chr1	139790	139847	-	0
## 102	lncRNA	chr1	141474	173862	-	0
## 103	lncRNA	chr1	141474	149707	-	0
## 104	lncRNA	chr1	146386	149707	-	0
## 105	lncRNA	chr1	141474	143011	-	0
## 106	lncRNA	chr1	146386	173862	-	0
## 107	lncRNA	chr1	173753	173862	-	0
## 108	lncRNA	chr1	172557	172688	-	0
## 109	lncRNA	chr1	169049	169264	-	0
## 110	lncRNA	chr1	168100	168165	-	0
## 111	lncRNA	chr1	165884	165942	-	0
## 112	lncRNA	chr1	164263	164791	-	0
## 113	lncRNA	chr1	155767	155831	-	0
## 114	lncRNA	chr1	146386	146509	-	0
## 115	lncRNA	chr1	165491	169210	-	0
## 116	lncRNA	chr1	169049	169210	-	0
## 117	lncRNA	chr1	167959	168165	-	0
## 118	lncRNA	chr1	165491	165942	-	0
## 119	snRNA	chr1	157784	157887	-	1
## 120	snRNA	chr1	157784	157887	-	1
## 121	snRNA	chr1	157784	157887	-	1
## 122	lncRNA	chr1	160446	161525	+	0
## 123	lncRNA	chr1	160446	161525	+	0
## 124	lncRNA	chr1	160446	160690	+	0
## 125	lncRNA	chr1	161314	161525	+	0
## 126	unprocessed_pseudogene	chr1	182696	184174	+	0
## 127	unprocessed_pseudogene	chr1	182696	184174	+	0
## 128	unprocessed_pseudogene	chr1	182696	182746	+	0
## 129	unprocessed_pseudogene	chr1	183132	183216	+	0
## 130	unprocessed_pseudogene	chr1	183494	183571	+	0
## 131	unprocessed_pseudogene	chr1	183740	183901	+	0
## 132	unprocessed_pseudogene	chr1	183981	184174	+	0
## 133	unprocessed_pseudogene	chr1	185217	195411	-	1
## 134	unprocessed_pseudogene	chr1	185217	195411	-	1
## 135	unprocessed_pseudogene	chr1	195263	195411	-	1
## 136	unprocessed_pseudogene	chr1	188791	188902	-	1
## 137	unprocessed_pseudogene	chr1	188439	188584	-	1
## 138	unprocessed_pseudogene	chr1	188130	188266	-	1
## 139	unprocessed_pseudogene	chr1	187755	187890	-	1
## 140	unprocessed_pseudogene	chr1	187376	187577	-	1
## 141	unprocessed_pseudogene	chr1	187129	187287	-	1
## 142	unprocessed_pseudogene	chr1	186317	186469	-	1
## 143	unprocessed_pseudogene	chr1	185491	185559	-	1
## 144	unprocessed_pseudogene	chr1	185217	185350	-	1
## 145	miRNA	chr1	187891	187958	-	1
## 146	miRNA	chr1	187891	187958	-	1
## 147	miRNA	chr1	187891	187958	-	1
## 148	transcribed_processed_pseudogene	chr1	257864	359681	-	0
## 149	transcribed_processed_pseudogene	chr1	257864	264733	-	0
## 150	transcribed_processed_pseudogene	chr1	264604	264733	-	0
## 151	transcribed_processed_pseudogene	chr1	257864	259025	-	0

## 152	transcribed_processed_pseudogene	chr1	258144	359681	-	0
## 153	transcribed_processed_pseudogene	chr1	359345	359681	-	0
## 154	transcribed_processed_pseudogene	chr1	358049	358183	-	0
## 155	transcribed_processed_pseudogene	chr1	356685	357586	-	0
## 156	transcribed_processed_pseudogene	chr1	258144	259025	-	0
## 157	transcribed_processed_pseudogene	chr1	258568	259024	-	0
## 158	transcribed_processed_pseudogene	chr1	258568	259024	-	0
## 159	lncRNA	chr1	266855	268655	+	0
## 160	lncRNA	chr1	266855	268655	+	0
## 161	lncRNA	chr1	266855	267056	+	0
## 162	lncRNA	chr1	268122	268655	+	0
## 163	processed_pseudogene	chr1	347982	348366	-	1
## 164	processed_pseudogene	chr1	347982	348366	-	1
## 165	processed_pseudogene	chr1	347982	348366	-	1
## 166	lncRNA	chr1	358857	366052	+	0
## 167	lncRNA	chr1	360057	366052	+	0
## 168	lncRNA	chr1	360057	360168	+	0
## 169	lncRNA	chr1	365171	366052	+	0
## 170	transcribed_unprocessed_pseudogene	chr1	365389	522928	-	0
## 171	transcribed_unprocessed_pseudogene	chr1	365389	366151	-	0
## 172	transcribed_unprocessed_pseudogene	chr1	366019	366151	-	0
## 173	transcribed_unprocessed_pseudogene	chr1	365389	365692	-	0
## 174	transcribed_unprocessed_pseudogene	chr1	485026	485208	-	0
## 175	transcribed_unprocessed_pseudogene	chr1	485026	485208	-	0
## 176	transcribed_unprocessed_pseudogene	chr1	504865	522928	-	0
## 177	transcribed_unprocessed_pseudogene	chr1	522859	522928	-	0
## 178	transcribed_unprocessed_pseudogene	chr1	517185	517266	-	0
## 179	transcribed_unprocessed_pseudogene	chr1	514359	514423	-	0
## 180	transcribed_unprocessed_pseudogene	chr1	504865	505103	-	0
## 181	processed_pseudogene	chr1	439870	440232	+	1
## 182	processed_pseudogene	chr1	439870	440232	+	1
## 183	processed_pseudogene	chr1	439870	440232	+	1
## 184	protein_coding	chr1	450703	451697	-	1
## 185	protein_coding	chr1	450703	451697	-	1
## 186	protein_coding	chr1	450703	451697	-	1
## 187	protein_coding	chr1	450743	451678	-	1
## 188	protein_coding	chr1	451676	451678	-	1
## 189	protein_coding	chr1	450740	450742	-	1
## 190	protein_coding	chr1	450703	450742	-	1
## 191	protein_coding	chr1	451679	451697	-	1
## 192	processed_pseudogene	chr1	487101	489906	+	1
## 193	processed_pseudogene	chr1	487101	489906	+	1
## 194	processed_pseudogene	chr1	487101	489387	+	1
## 195	processed_pseudogene	chr1	489717	489906	+	1
## 196	unprocessed_pseudogene	chr1	491225	493241	-	0
## 197	unprocessed_pseudogene	chr1	491225	493241	-	0
## 198	unprocessed_pseudogene	chr1	492768	493241	-	0
## 199	unprocessed_pseudogene	chr1	491225	491989	-	0
## 200	snRNA	chr1	516376	516479	-	0
## 201	snRNA	chr1	516376	516479	-	0
## 202	snRNA	chr1	516376	516479	-	0
## 203	transcribed_processed_pseudogene	chr1	586071	827796	-	0
## 204	transcribed_processed_pseudogene	chr1	586071	612813	-	0
## 205	transcribed_processed_pseudogene	chr1	612741	612813	-	0

## 206	transcribed_processed_pseudogene	chr1	607955	608056	-	0
## 207	transcribed_processed_pseudogene	chr1	601398	601577	-	0
## 208	transcribed_processed_pseudogene	chr1	594629	594756	-	0
## 209	transcribed_processed_pseudogene	chr1	586821	586955	-	0
## 210	transcribed_processed_pseudogene	chr1	586071	586358	-	0
## 211	transcribed_processed_pseudogene	chr1	594308	827796	-	0
## 212	transcribed_processed_pseudogene	chr1	827670	827796	-	0
## 213	transcribed_processed_pseudogene	chr1	698927	698959	-	0
## 214	transcribed_processed_pseudogene	chr1	607955	608056	-	0
## 215	transcribed_processed_pseudogene	chr1	601398	601577	-	0
## 216	transcribed_processed_pseudogene	chr1	594308	594756	-	0
## 217	transcribed_processed_pseudogene	chr1	720024	720206	-	0
## 218	transcribed_processed_pseudogene	chr1	720024	720206	-	0
## 219	lncRNA	chr1	587629	594768	+	0
## 220	lncRNA	chr1	587629	594768	+	0
## 221	lncRNA	chr1	587629	587701	+	0
## 222	lncRNA	chr1	594235	594768	+	0
## 223	unprocessed_pseudogene	chr1	629062	629433	+	1
## 224	unprocessed_pseudogene	chr1	629062	629433	+	1
## 225	unprocessed_pseudogene	chr1	629062	629433	+	1
## 226	unprocessed_pseudogene	chr1	629640	630683	+	1
## 227	unprocessed_pseudogene	chr1	629640	630683	+	1
## 228	unprocessed_pseudogene	chr1	629640	630683	+	1
## 229	unprocessed_pseudogene	chr1	631074	632616	+	1
## 230	unprocessed_pseudogene	chr1	631074	632616	+	1
## 231	unprocessed_pseudogene	chr1	631074	632616	+	1
## 232	miRNA	chr1	632325	632413	-	0
## 233	miRNA	chr1	632325	632413	-	0
## 234	miRNA	chr1	632325	632413	-	0
## 235	unprocessed_pseudogene	chr1	632757	633438	+	1
## 236	unprocessed_pseudogene	chr1	632757	633438	+	1
## 237	unprocessed_pseudogene	chr1	632757	633438	+	1
## 238	unprocessed_pseudogene	chr1	633535	633741	+	1
## 239	unprocessed_pseudogene	chr1	633535	633741	+	1
## 240	unprocessed_pseudogene	chr1	633535	633741	+	1
## 241	unprocessed_pseudogene	chr1	633696	634376	+	1
## 242	unprocessed_pseudogene	chr1	633696	634376	+	1
## 243	unprocessed_pseudogene	chr1	633696	634376	+	1
## 244	unprocessed_pseudogene	chr1	634376	634922	+	1
## 245	unprocessed_pseudogene	chr1	634376	634922	+	1
## 246	unprocessed_pseudogene	chr1	634376	634922	+	1
## 247	processed_pseudogene	chr1	674842	675265	+	1
## 248	processed_pseudogene	chr1	674842	675265	+	1
## 249	processed_pseudogene	chr1	674842	675265	+	1
## 250	protein_coding	chr1	685679	686673	-	1
## 251	protein_coding	chr1	685679	686673	-	1
## 252	protein_coding	chr1	685679	686673	-	1
## 253	protein_coding	chr1	685719	686654	-	1
## 254	protein_coding	chr1	686652	686654	-	1
## 255	protein_coding	chr1	685716	685718	-	1
## 256	protein_coding	chr1	685679	685718	-	1
## 257	protein_coding	chr1	686655	686673	-	1
## 258	processed_pseudogene	chr1	722092	724903	+	1
## 259	processed_pseudogene	chr1	722092	724903	+	1

## 260	processed_pseudogene	chr1	722092	724360	+	1
## 261	processed_pseudogene	chr1	724718	724903	+	1
## 262	transcribed_unprocessed_pseudogene	chr1	725885	778626	-	0
## 263	transcribed_unprocessed_pseudogene	chr1	725885	778626	-	0
## 264	transcribed_unprocessed_pseudogene	chr1	778284	778626	-	0
## 265	transcribed_unprocessed_pseudogene	chr1	774171	774280	-	0
## 266	transcribed_unprocessed_pseudogene	chr1	772976	773107	-	0
## 267	transcribed_unprocessed_pseudogene	chr1	769497	769712	-	0
## 268	transcribed_unprocessed_pseudogene	chr1	768548	768613	-	0
## 269	transcribed_unprocessed_pseudogene	chr1	766329	766387	-	0
## 270	transcribed_unprocessed_pseudogene	chr1	764723	765247	-	0
## 271	transcribed_unprocessed_pseudogene	chr1	758967	759123	-	0
## 272	transcribed_unprocessed_pseudogene	chr1	756077	756141	-	0
## 273	transcribed_unprocessed_pseudogene	chr1	746695	746818	-	0
## 274	transcribed_unprocessed_pseudogene	chr1	744728	744825	-	0
## 275	transcribed_unprocessed_pseudogene	chr1	744195	744391	-	0
## 276	transcribed_unprocessed_pseudogene	chr1	743180	743350	-	0
## 277	transcribed_unprocessed_pseudogene	chr1	735423	735613	-	0
## 278	transcribed_unprocessed_pseudogene	chr1	733307	733364	-	0
## 279	transcribed_unprocessed_pseudogene	chr1	725885	729804	-	0
## 280	transcribed_unprocessed_pseudogene	chr1	764723	774280	-	0
## 281	transcribed_unprocessed_pseudogene	chr1	774171	774280	-	0
## 282	transcribed_unprocessed_pseudogene	chr1	768548	768613	-	0
## 283	transcribed_unprocessed_pseudogene	chr1	766329	766387	-	0
## 284	transcribed_unprocessed_pseudogene	chr1	765144	765247	-	0
## 285	transcribed_unprocessed_pseudogene	chr1	764723	764800	-	0
## 286	snRNA	chr1	758233	758336	-	1
## 287	snRNA	chr1	758233	758336	-	1
## 288	snRNA	chr1	758233	758336	-	1
## 289	lncRNA	chr1	760911	761989	+	0
## 290	lncRNA	chr1	760911	761989	+	0
## 291	lncRNA	chr1	760911	761154	+	0
## 292	lncRNA	chr1	761778	761989	+	0
## 293	lncRNA	chr1	778747	810065	+	0
## 294	lncRNA	chr1	778758	810062	+	0
## 295	lncRNA	chr1	778758	779092	+	0
## 296	lncRNA	chr1	803919	804222	+	0
## 297	lncRNA	chr1	804776	804966	+	0
## 298	lncRNA	chr1	807217	807323	+	0
## 299	lncRNA	chr1	809622	810062	+	0
## 300	lncRNA	chr1	778760	805270	+	0
## 301	lncRNA	chr1	778760	779092	+	0
## 302	lncRNA	chr1	803567	803667	+	0
## 303	lncRNA	chr1	803951	804222	+	0
## 304	lncRNA	chr1	804776	805270	+	0
## 305	lncRNA	chr1	778770	784690	+	0
## 306	lncRNA	chr1	778770	779092	+	0
## 307	lncRNA	chr1	781937	782136	+	0
## 308	lncRNA	chr1	784370	784690	+	0
## 309	lncRNA	chr1	778802	810057	+	0
## 310	lncRNA	chr1	778802	779092	+	0
## 311	lncRNA	chr1	803919	804222	+	0
## 312	lncRNA	chr1	804776	804840	+	0
## 313	lncRNA	chr1	807217	807323	+	0

## 314	lncRNA	chr1	809658	810057	+	0
## 315	lncRNA	chr1	778972	808378	+	0
## 316	lncRNA	chr1	778972	779092	+	0
## 317	lncRNA	chr1	803922	804222	+	0
## 318	lncRNA	chr1	804776	804966	+	0
## 319	lncRNA	chr1	807217	808378	+	0
## 320	lncRNA	chr1	803934	807435	+	0
## 321	lncRNA	chr1	803934	804222	+	0
## 322	lncRNA	chr1	804776	807435	+	0
## 323	transcribed_processed_pseudogene	chr1	781937	782050	+	0
## 324	transcribed_processed_pseudogene	chr1	781937	782050	+	0
## 325	transcribed_processed_pseudogene	chr1	781937	782050	+	0
## 326	transcribed_unprocessed_pseudogene	chr1	800879	817712	-	0
## 327	transcribed_unprocessed_pseudogene	chr1	800879	817712	-	0
## 328	transcribed_unprocessed_pseudogene	chr1	817373	817712	-	0
## 329	transcribed_unprocessed_pseudogene	chr1	810067	810170	-	0
## 330	transcribed_unprocessed_pseudogene	chr1	808574	808623	-	0
## 331	transcribed_unprocessed_pseudogene	chr1	805799	805891	-	0
## 332	transcribed_unprocessed_pseudogene	chr1	800879	801163	-	0
## 333	transcribed_unprocessed_pseudogene	chr1	805799	810161	-	0
## 334	transcribed_unprocessed_pseudogene	chr1	810067	810161	-	0
## 335	transcribed_unprocessed_pseudogene	chr1	808574	808623	-	0
## 336	transcribed_unprocessed_pseudogene	chr1	805799	805891	-	0
## 337	lncRNA	chr1	817371	819837	+	1
## 338	lncRNA	chr1	817371	819837	+	1
## 339	lncRNA	chr1	817371	818202	+	1
## 340	lncRNA	chr1	818723	819837	+	1
## 341	lncRNA	chr1	825138	868202	+	1
## 342	lncRNA	chr1	827598	859446	+	1
## 343	lncRNA	chr1	827598	827775	+	1
## 344	lncRNA	chr1	829003	829104	+	1
## 345	lncRNA	chr1	851927	852110	+	1
## 346	lncRNA	chr1	852671	852766	+	1
## 347	lncRNA	chr1	853391	859446	+	1
## 348	lncRNA	chr1	827604	859085	+	1
## 349	lncRNA	chr1	827604	827775	+	1
## 350	lncRNA	chr1	829003	829104	+	1
## 351	lncRNA	chr1	841200	844498	+	1
## 352	lncRNA	chr1	847654	847806	+	1
## 353	lncRNA	chr1	851927	852110	+	1
## 354	lncRNA	chr1	852671	852766	+	1
## 355	lncRNA	chr1	853391	855136	+	1
## 356	lncRNA	chr1	856449	859085	+	1
## 357	lncRNA	chr1	827638	859408	+	1
## 358	lncRNA	chr1	827638	827775	+	1
## 359	lncRNA	chr1	829003	829104	+	1
## 360	lncRNA	chr1	847654	847806	+	1
## 361	lncRNA	chr1	849484	849602	+	1
## 362	lncRNA	chr1	851927	852110	+	1
## 363	lncRNA	chr1	852671	852766	+	1
## 364	lncRNA	chr1	853391	855121	+	1
## 365	lncRNA	chr1	856449	859408	+	1
## 366	lncRNA	chr1	827654	854096	+	1
## 367	lncRNA	chr1	827654	827775	+	1

## 368	lncRNA	chr1	829003	829104	+	1
## 369	lncRNA	chr1	847654	847806	+	1
## 370	lncRNA	chr1	849484	849602	+	1
## 371	lncRNA	chr1	850181	850351	+	1
## 372	lncRNA	chr1	851927	852110	+	1
## 373	lncRNA	chr1	852671	852766	+	1
## 374	lncRNA	chr1	853391	854096	+	1
## 375	lncRNA	chr1	827667	854385	+	1
## 376	lncRNA	chr1	827667	827775	+	1
## 377	lncRNA	chr1	829003	829104	+	1
## 378	lncRNA	chr1	847654	847806	+	1
## 379	lncRNA	chr1	849484	849602	+	1
## 380	lncRNA	chr1	850178	850351	+	1
## 381	lncRNA	chr1	851927	852110	+	1
## 382	lncRNA	chr1	852671	852766	+	1
## 383	lncRNA	chr1	853391	854385	+	1
## 384	lncRNA	chr1	827673	857246	+	1
## 385	lncRNA	chr1	827673	827775	+	1
## 386	lncRNA	chr1	829003	829104	+	1
## 387	lncRNA	chr1	851927	852014	+	1
## 388	lncRNA	chr1	852671	852766	+	1
## 389	lncRNA	chr1	853391	855136	+	1
## 390	lncRNA	chr1	856449	857246	+	1
## 391	lncRNA	chr1	827700	854376	+	1
## 392	lncRNA	chr1	827700	827775	+	1
## 393	lncRNA	chr1	829003	829104	+	1
## 394	lncRNA	chr1	841200	841373	+	1
## 395	lncRNA	chr1	847654	847806	+	1
## 396	lncRNA	chr1	851927	852110	+	1
## 397	lncRNA	chr1	852671	852766	+	1
## 398	lncRNA	chr1	853391	854376	+	1
## 399	lncRNA	chr1	860227	868202	+	1
## 400	lncRNA	chr1	860227	861273	+	1
## 401	lncRNA	chr1	865260	865499	+	1
## 402	lncRNA	chr1	867420	868202	+	1
## 403	lncRNA	chr1	826206	827522	-	1
## 404	lncRNA	chr1	826206	827522	-	1
## 405	lncRNA	chr1	826206	827522	-	1
## 406	lncRNA	chr1	868071	876903	-	1
## 407	lncRNA	chr1	868071	876903	-	1
## 408	lncRNA	chr1	876746	876903	-	1
## 409	lncRNA	chr1	874112	875155	-	1
## 410	lncRNA	chr1	868071	868675	-	1
## 411	lncRNA	chr1	868240	870201	-	1
## 412	lncRNA	chr1	870086	870201	-	1
## 413	lncRNA	chr1	869528	869575	-	1
## 414	lncRNA	chr1	868627	868675	-	1
## 415	lncRNA	chr1	868240	868530	-	1
## 416	unprocessed_pseudogene	chr1	873292	874349	+	1
## 417	unprocessed_pseudogene	chr1	873292	874349	+	1
## 418	unprocessed_pseudogene	chr1	873292	874349	+	1
## 419	transcribed_unprocessed_pseudogene	chr1	874529	877234	-	0
## 420	transcribed_unprocessed_pseudogene	chr1	874529	877234	-	0
## 421	transcribed_unprocessed_pseudogene	chr1	876755	877234	-	0

## 422	transcribed_unprocessed_pseudogene	chr1	876527	876611	-	0
## 423	transcribed_unprocessed_pseudogene	chr1	875526	875625	-	0
## 424	transcribed_unprocessed_pseudogene	chr1	875047	875155	-	0
## 425	transcribed_unprocessed_pseudogene	chr1	874529	874591	-	0
## 426	lncRNA	chr1	904834	915976	+	0
## 427	lncRNA	chr1	904834	915976	+	0
## 428	lncRNA	chr1	904834	904957	+	0
## 429	lncRNA	chr1	915750	915976	+	0
## 430	lncRNA	chr1	911435	914948	+	0
## 431	lncRNA	chr1	911435	914948	+	0
## 432	lncRNA	chr1	911435	911473	+	0
## 433	lncRNA	chr1	911945	914948	+	0
## 434	lncRNA	chr1	914171	914971	+	0
## 435	lncRNA	chr1	914171	914971	+	0
## 436	lncRNA	chr1	914171	914444	+	0
## 437	lncRNA	chr1	914803	914971	+	0
## 438	lncRNA	chr1	916865	921016	-	1
## 439	lncRNA	chr1	916870	919692	-	1
## 440	lncRNA	chr1	919335	919692	-	1
## 441	lncRNA	chr1	918825	918915	-	1
## 442	lncRNA	chr1	918022	918110	-	1
## 443	lncRNA	chr1	916870	917720	-	1
## 444	protein_coding	chr1	923928	944581	+	1
## 445	protein_coding	chr1	925731	944574	+	1
## 446	protein_coding	chr1	925731	925800	+	1
## 447	protein_coding	chr1	925922	926013	+	1
## 448	protein_coding	chr1	925942	926013	+	1
## 449	protein_coding	chr1	925942	925944	+	1
## 450	protein_coding	chr1	930155	930336	+	1
## 451	protein_coding	chr1	930155	930336	+	1
## 452	protein_coding	chr1	931039	931089	+	1
## 453	protein_coding	chr1	931039	931089	+	1
## 454	protein_coding	chr1	935772	935896	+	1
## 455	protein_coding	chr1	935772	935896	+	1
## 456	protein_coding	chr1	939040	939129	+	1
## 457	protein_coding	chr1	939040	939129	+	1
## 458	protein_coding	chr1	939275	939460	+	1
## 459	protein_coding	chr1	939275	939460	+	1
## 460	protein_coding	chr1	941144	941306	+	1
## 461	protein_coding	chr1	941144	941306	+	1
## 462	protein_coding	chr1	942136	942251	+	1
## 463	protein_coding	chr1	942136	942251	+	1
## 464	protein_coding	chr1	942410	942488	+	1
## 465	protein_coding	chr1	942410	942488	+	1
## 466	protein_coding	chr1	942559	943058	+	1
## 467	protein_coding	chr1	942559	943058	+	1
## 468	protein_coding	chr1	943253	943377	+	1
## 469	protein_coding	chr1	943253	943377	+	1
## 470	protein_coding	chr1	943698	943808	+	1
## 471	protein_coding	chr1	943698	943808	+	1
## 472	protein_coding	chr1	943908	944574	+	1
## 473	protein_coding	chr1	943908	944150	+	1
## 474	protein_coding	chr1	944151	944153	+	1
## 475	protein_coding	chr1	925731	925800	+	1

## 476	protein_coding	chr1	925922	925941	+	1
## 477	protein_coding	chr1	944151	944574	+	1
## 478	protein_coding	chr1	925741	944581	+	1
## 479	protein_coding	chr1	925741	925800	+	1
## 480	protein_coding	chr1	925922	926013	+	1
## 481	protein_coding	chr1	925942	926013	+	1
## 482	protein_coding	chr1	925942	925944	+	1
## 483	protein_coding	chr1	930155	930336	+	1
## 484	protein_coding	chr1	930155	930336	+	1
## 485	protein_coding	chr1	935772	935896	+	1
## 486	protein_coding	chr1	935772	935896	+	1
## 487	protein_coding	chr1	939040	939129	+	1
## 488	protein_coding	chr1	939040	939129	+	1
## 489	protein_coding	chr1	939272	939412	+	1
## 490	protein_coding	chr1	939272	939412	+	1
## 491	protein_coding	chr1	942410	942488	+	1
## 492	protein_coding	chr1	942410	942488	+	1
## 493	protein_coding	chr1	942559	943058	+	1
## 494	protein_coding	chr1	942559	943058	+	1
## 495	protein_coding	chr1	943253	943377	+	1
## 496	protein_coding	chr1	943253	943377	+	1
## 497	protein_coding	chr1	943698	943808	+	1
## 498	protein_coding	chr1	943698	943808	+	1
## 499	protein_coding	chr1	943908	944581	+	1
## 500	protein_coding	chr1	943908	944150	+	1
## 501	protein_coding	chr1	944151	944153	+	1
## 502	protein_coding	chr1	925741	925800	+	1
## 503	protein_coding	chr1	925922	925941	+	1
## 504	protein_coding	chr1	944151	944581	+	1
## 505	protein_coding	chr1	925741	944581	+	1
## 506	protein_coding	chr1	925741	925800	+	1
## 507	protein_coding	chr1	925922	926013	+	1
## 508	protein_coding	chr1	925942	926013	+	1
## 509	protein_coding	chr1	925942	925944	+	1
## 510	protein_coding	chr1	930155	930336	+	1
## 511	protein_coding	chr1	930155	930336	+	1
## 512	protein_coding	chr1	931039	931089	+	1
## 513	protein_coding	chr1	931039	931089	+	1
## 514	protein_coding	chr1	935772	935896	+	1
## 515	protein_coding	chr1	935772	935896	+	1
## 516	protein_coding	chr1	939040	939129	+	1
## 517	protein_coding	chr1	939040	939129	+	1
## 518	protein_coding	chr1	939272	939460	+	1
## 519	protein_coding	chr1	939272	939460	+	1
## 520	protein_coding	chr1	941144	941306	+	1
## 521	protein_coding	chr1	941144	941306	+	1
## 522	protein_coding	chr1	942136	942251	+	1
## 523	protein_coding	chr1	942136	942251	+	1
## 524	protein_coding	chr1	942410	942488	+	1
## 525	protein_coding	chr1	942410	942488	+	1
## 526	protein_coding	chr1	942559	943058	+	1
## 527	protein_coding	chr1	942559	943058	+	1
## 528	protein_coding	chr1	943253	943377	+	1
## 529	protein_coding	chr1	943253	943377	+	1

## 530	protein_coding	chr1	943698	943808	+	1
## 531	protein_coding	chr1	943698	943808	+	1
## 532	protein_coding	chr1	943908	944581	+	1
## 533	protein_coding	chr1	943908	944150	+	1
## 534	protein_coding	chr1	944151	944153	+	1
## 535	protein_coding	chr1	925741	925800	+	1
## 536	protein_coding	chr1	925922	925941	+	1
## 537	protein_coding	chr1	944151	944581	+	1
## 538	protein_coding	chr1	925741	944581	+	1
## 539	protein_coding	chr1	925741	925800	+	1
## 540	protein_coding	chr1	925922	926013	+	1
## 541	protein_coding	chr1	925942	926013	+	1
## 542	protein_coding	chr1	925942	925944	+	1
## 543	protein_coding	chr1	930155	930336	+	1
## 544	protein_coding	chr1	930155	930336	+	1
## 545	protein_coding	chr1	931039	931089	+	1
## 546	protein_coding	chr1	931039	931089	+	1
## 547	protein_coding	chr1	935772	935805	+	1
## 548	protein_coding	chr1	935772	935805	+	1
## 549	protein_coding	chr1	941172	941306	+	1
## 550	protein_coding	chr1	941172	941306	+	1
## 551	protein_coding	chr1	942136	942251	+	1
## 552	protein_coding	chr1	942136	942251	+	1
## 553	protein_coding	chr1	942410	942488	+	1
## 554	protein_coding	chr1	942410	942488	+	1
## 555	protein_coding	chr1	942559	943058	+	1
## 556	protein_coding	chr1	942559	942852	+	1
## 557	protein_coding	chr1	942853	942855	+	1
## 558	protein_coding	chr1	943253	943377	+	1
## 559	protein_coding	chr1	943698	943808	+	1
## 560	protein_coding	chr1	943908	944581	+	1
## 561	protein_coding	chr1	925741	925800	+	1
## 562	protein_coding	chr1	925922	925941	+	1
## 563	protein_coding	chr1	942853	943058	+	1
## 564	protein_coding	chr1	943253	943377	+	1
## 565	protein_coding	chr1	943698	943808	+	1
## 566	protein_coding	chr1	943908	944581	+	1
## 567	protein_coding	chr1	925741	944581	+	1
## 568	protein_coding	chr1	925741	925800	+	1
## 569	protein_coding	chr1	925922	926013	+	1
## 570	protein_coding	chr1	925942	926013	+	1
## 571	protein_coding	chr1	925942	925944	+	1
## 572	protein_coding	chr1	930155	930336	+	1
## 573	protein_coding	chr1	930155	930336	+	1
## 574	protein_coding	chr1	931039	931089	+	1
## 575	protein_coding	chr1	931039	931089	+	1
## 576	protein_coding	chr1	935772	935896	+	1
## 577	protein_coding	chr1	935772	935896	+	1
## 578	protein_coding	chr1	939040	939129	+	1
## 579	protein_coding	chr1	939040	939129	+	1
## 580	protein_coding	chr1	939275	939460	+	1
## 581	protein_coding	chr1	939275	939460	+	1
## 582	protein_coding	chr1	942136	942251	+	1
## 583	protein_coding	chr1	942136	942251	+	1

## 584	protein_coding	chr1	942410	942488	+	1
## 585	protein_coding	chr1	942410	942488	+	1
## 586	protein_coding	chr1	942559	943058	+	1
## 587	protein_coding	chr1	942559	942692	+	1
## 588	protein_coding	chr1	942693	942695	+	1
## 589	protein_coding	chr1	943253	943377	+	1
## 590	protein_coding	chr1	943698	943808	+	1
## 591	protein_coding	chr1	943908	944581	+	1
## 592	protein_coding	chr1	925741	925800	+	1
## 593	protein_coding	chr1	925922	925941	+	1
## 594	protein_coding	chr1	942693	943058	+	1
## 595	protein_coding	chr1	943253	943377	+	1
## 596	protein_coding	chr1	943698	943808	+	1
## 597	protein_coding	chr1	943908	944581	+	1
## 598	protein_coding	chr1	925741	944581	+	1
## 599	protein_coding	chr1	925741	925800	+	1
## 600	protein_coding	chr1	925922	926013	+	1
## 601	protein_coding	chr1	925942	926013	+	1
## 602	protein_coding	chr1	925942	925944	+	1
## 603	protein_coding	chr1	930155	930336	+	1
## 604	protein_coding	chr1	930155	930336	+	1
## 605	protein_coding	chr1	931039	931089	+	1
## 606	protein_coding	chr1	931039	931089	+	1
## 607	protein_coding	chr1	935772	935896	+	1
## 608	protein_coding	chr1	935772	935896	+	1
## 609	protein_coding	chr1	939040	939129	+	1
## 610	protein_coding	chr1	939040	939129	+	1
## 611	protein_coding	chr1	941144	941306	+	1
## 612	protein_coding	chr1	941144	941306	+	1
## 613	protein_coding	chr1	942136	942251	+	1
## 614	protein_coding	chr1	942136	942251	+	1
## 615	protein_coding	chr1	942410	942488	+	1
## 616	protein_coding	chr1	942410	942488	+	1
## 617	protein_coding	chr1	942559	943058	+	1
## 618	protein_coding	chr1	942559	943058	+	1
## 619	protein_coding	chr1	943253	943377	+	1
## 620	protein_coding	chr1	943253	943377	+	1
## 621	protein_coding	chr1	943698	943808	+	1
## 622	protein_coding	chr1	943698	943808	+	1
## 623	protein_coding	chr1	943908	944581	+	1
## 624	protein_coding	chr1	943908	944150	+	1
## 625	protein_coding	chr1	944151	944153	+	1
## 626	protein_coding	chr1	925741	925800	+	1
## 627	protein_coding	chr1	925922	925941	+	1
## 628	protein_coding	chr1	944151	944581	+	1
## 629	protein_coding	chr1	925741	944581	+	1
## 630	protein_coding	chr1	925741	925800	+	1
## 631	protein_coding	chr1	925922	926013	+	1
## 632	protein_coding	chr1	925942	926013	+	1
## 633	protein_coding	chr1	925942	925944	+	1
## 634	protein_coding	chr1	930155	930336	+	1
## 635	protein_coding	chr1	930155	930336	+	1
## 636	protein_coding	chr1	931039	931089	+	1
## 637	protein_coding	chr1	931039	931089	+	1

## 638	protein_coding	chr1	935772	935896	+	1
## 639	protein_coding	chr1	935772	935896	+	1
## 640	protein_coding	chr1	939040	939129	+	1
## 641	protein_coding	chr1	939040	939129	+	1
## 642	protein_coding	chr1	939272	939412	+	1
## 643	protein_coding	chr1	939272	939412	+	1
## 644	protein_coding	chr1	942410	942488	+	1
## 645	protein_coding	chr1	942410	942488	+	1
## 646	protein_coding	chr1	942559	943058	+	1
## 647	protein_coding	chr1	942559	943058	+	1
## 648	protein_coding	chr1	943253	943377	+	1
## 649	protein_coding	chr1	943253	943377	+	1
## 650	protein_coding	chr1	943698	943808	+	1
## 651	protein_coding	chr1	943698	943808	+	1
## 652	protein_coding	chr1	943908	944581	+	1
## 653	protein_coding	chr1	943908	944150	+	1
## 654	protein_coding	chr1	944151	944153	+	1
## 655	protein_coding	chr1	925741	925800	+	1
## 656	protein_coding	chr1	925922	925941	+	1
## 657	protein_coding	chr1	944151	944581	+	1
## 658	protein_coding	chr1	925741	944581	+	1
## 659	protein_coding	chr1	925741	925800	+	1
## 660	protein_coding	chr1	925922	926013	+	1
## 661	protein_coding	chr1	925942	926013	+	1
## 662	protein_coding	chr1	925942	925944	+	1
## 663	protein_coding	chr1	930155	930336	+	1
## 664	protein_coding	chr1	930155	930336	+	1
## 665	protein_coding	chr1	931039	931089	+	1
## 666	protein_coding	chr1	931039	931089	+	1
## 667	protein_coding	chr1	942410	942488	+	1
## 668	protein_coding	chr1	942410	942488	+	1
## 669	protein_coding	chr1	942559	943058	+	1
## 670	protein_coding	chr1	942559	942852	+	1
## 671	protein_coding	chr1	942853	942855	+	1
## 672	protein_coding	chr1	943253	943377	+	1
## 673	protein_coding	chr1	943698	943808	+	1
## 674	protein_coding	chr1	943908	944581	+	1
## 675	protein_coding	chr1	925741	925800	+	1
## 676	protein_coding	chr1	925922	925941	+	1
## 677	protein_coding	chr1	942853	943058	+	1
## 678	protein_coding	chr1	943253	943377	+	1
## 679	protein_coding	chr1	943698	943808	+	1
## 680	protein_coding	chr1	943908	944581	+	1
## 681	protein_coding	chr1	925741	944581	+	1
## 682	protein_coding	chr1	925741	925800	+	1
## 683	protein_coding	chr1	925922	926013	+	1
## 684	protein_coding	chr1	925942	926013	+	1
## 685	protein_coding	chr1	925942	925944	+	1
## 686	protein_coding	chr1	930155	930336	+	1
## 687	protein_coding	chr1	930155	930336	+	1
## 688	protein_coding	chr1	931039	931089	+	1
## 689	protein_coding	chr1	931039	931089	+	1
## 690	protein_coding	chr1	935772	935896	+	1
## 691	protein_coding	chr1	935772	935896	+	1

## 692	protein_coding	chr1	939040	939129	+	1
## 693	protein_coding	chr1	939040	939129	+	1
## 694	protein_coding	chr1	939275	939412	+	1
## 695	protein_coding	chr1	939275	939412	+	1
## 696	protein_coding	chr1	941144	941230	+	1
## 697	protein_coding	chr1	941144	941230	+	1
## 698	protein_coding	chr1	942410	942488	+	1
## 699	protein_coding	chr1	942410	942488	+	1
## 700	protein_coding	chr1	942559	943058	+	1
## 701	protein_coding	chr1	942559	943058	+	1
## 702	protein_coding	chr1	943253	943377	+	1
## 703	protein_coding	chr1	943253	943377	+	1
## 704	protein_coding	chr1	943698	943808	+	1
## 705	protein_coding	chr1	943698	943808	+	1
## 706	protein_coding	chr1	943908	944581	+	1
## 707	protein_coding	chr1	943908	944150	+	1
## 708	protein_coding	chr1	944151	944153	+	1
## 709	protein_coding	chr1	925741	925800	+	1
## 710	protein_coding	chr1	925922	925941	+	1
## 711	protein_coding	chr1	944151	944581	+	1
## 712	protein_coding	chr1	944203	959309	-	1
## 713	protein_coding	chr1	944203	959256	-	1
## 714	protein_coding	chr1	959215	959256	-	1
## 715	protein_coding	chr1	959215	959240	-	1
## 716	protein_coding	chr1	959238	959240	-	1
## 717	protein_coding	chr1	958929	959081	-	1
## 718	protein_coding	chr1	958929	959081	-	1
## 719	protein_coding	chr1	957099	957273	-	1
## 720	protein_coding	chr1	957099	957273	-	1
## 721	protein_coding	chr1	956894	957025	-	1
## 722	protein_coding	chr1	956894	957025	-	1
## 723	protein_coding	chr1	956095	956215	-	1
## 724	protein_coding	chr1	956095	956215	-	1
## 725	protein_coding	chr1	955923	956013	-	1
## 726	protein_coding	chr1	955923	956013	-	1
## 727	protein_coding	chr1	954004	954082	-	1
## 728	protein_coding	chr1	954004	954082	-	1
## 729	protein_coding	chr1	953782	953892	-	1
## 730	protein_coding	chr1	953782	953892	-	1
## 731	protein_coding	chr1	953175	953288	-	1
## 732	protein_coding	chr1	953175	953288	-	1
## 733	protein_coding	chr1	952412	952600	-	1
## 734	protein_coding	chr1	952412	952600	-	1
## 735	protein_coding	chr1	952000	952139	-	1
## 736	protein_coding	chr1	952000	952139	-	1
## 737	protein_coding	chr1	951127	951238	-	1
## 738	protein_coding	chr1	951127	951238	-	1
## 739	protein_coding	chr1	948490	948603	-	1
## 740	protein_coding	chr1	948490	948603	-	1
## 741	protein_coding	chr1	948131	948232	-	1
## 742	protein_coding	chr1	948131	948232	-	1
## 743	protein_coding	chr1	946402	946545	-	1
## 744	protein_coding	chr1	946402	946545	-	1
## 745	protein_coding	chr1	946173	946286	-	1

## 746	protein_coding	chr1	946173	946286	-	1
## 747	protein_coding	chr1	945518	945653	-	1
## 748	protein_coding	chr1	945518	945653	-	1
## 749	protein_coding	chr1	945057	945146	-	1
## 750	protein_coding	chr1	945057	945146	-	1
## 751	protein_coding	chr1	944203	944800	-	1
## 752	protein_coding	chr1	944697	944800	-	1
## 753	protein_coding	chr1	944694	944696	-	1
## 754	protein_coding	chr1	959241	959256	-	1
## 755	protein_coding	chr1	944203	944696	-	1
## 756	protein_coding	chr1	960584	965719	+	1
## 757	protein_coding	chr1	960584	965719	+	1
## 758	protein_coding	chr1	960584	960800	+	1
## 759	protein_coding	chr1	960694	960800	+	1
## 760	protein_coding	chr1	960694	960696	+	1
## 761	protein_coding	chr1	961293	961552	+	1
## 762	protein_coding	chr1	961293	961552	+	1
## 763	protein_coding	chr1	961629	961750	+	1
## 764	protein_coding	chr1	961629	961750	+	1
## 765	protein_coding	chr1	961826	962047	+	1
## 766	protein_coding	chr1	961826	962047	+	1
## 767	protein_coding	chr1	962355	962471	+	1
## 768	protein_coding	chr1	962355	962471	+	1
## 769	protein_coding	chr1	962704	962917	+	1
## 770	protein_coding	chr1	962704	962917	+	1
## 771	protein_coding	chr1	963109	963253	+	1
## 772	protein_coding	chr1	963109	963253	+	1
## 773	protein_coding	chr1	963337	963504	+	1
## 774	protein_coding	chr1	963337	963504	+	1
## 775	protein_coding	chr1	963920	964008	+	1
## 776	protein_coding	chr1	963920	964008	+	1
## 777	protein_coding	chr1	964107	964180	+	1
## 778	protein_coding	chr1	964107	964180	+	1
## 779	protein_coding	chr1	964349	964530	+	1
## 780	protein_coding	chr1	964349	964530	+	1
## 781	protein_coding	chr1	964963	965719	+	1
## 782	protein_coding	chr1	964963	965188	+	1
## 783	protein_coding	chr1	965189	965191	+	1
## 784	protein_coding	chr1	960584	960693	+	1
## 785	protein_coding	chr1	965189	965719	+	1
## 786	protein_coding	chr1	960639	965602	+	1
## 787	protein_coding	chr1	960639	960699	+	1
## 788	protein_coding	chr1	962082	962471	+	1
## 789	protein_coding	chr1	962704	962917	+	1
## 790	protein_coding	chr1	962707	962917	+	1
## 791	protein_coding	chr1	962707	962709	+	1
## 792	protein_coding	chr1	963109	963253	+	1
## 793	protein_coding	chr1	963109	963253	+	1
## 794	protein_coding	chr1	963337	963504	+	1
## 795	protein_coding	chr1	963337	963504	+	1
## 796	protein_coding	chr1	963920	964008	+	1
## 797	protein_coding	chr1	963920	964008	+	1
## 798	protein_coding	chr1	964107	964167	+	1
## 799	protein_coding	chr1	964107	964167	+	1

## 800	protein_coding	chr1	964349	964530	+	1
## 801	protein_coding	chr1	964349	964349	+	1
## 802	protein_coding	chr1	964350	964352	+	1
## 803	protein_coding	chr1	964963	965602	+	1
## 804	protein_coding	chr1	960639	960699	+	1
## 805	protein_coding	chr1	962082	962471	+	1
## 806	protein_coding	chr1	962704	962706	+	1
## 807	protein_coding	chr1	964350	964530	+	1
## 808	protein_coding	chr1	964963	965602	+	1
## 809	protein_coding	chr1	966497	975865	+	1
## 810	protein_coding	chr1	966497	975108	+	1
## 811	protein_coding	chr1	966497	966614	+	1
## 812	protein_coding	chr1	966532	966614	+	1
## 813	protein_coding	chr1	966532	966534	+	1
## 814	protein_coding	chr1	966704	966803	+	1
## 815	protein_coding	chr1	966704	966803	+	1
## 816	protein_coding	chr1	970277	970423	+	1
## 817	protein_coding	chr1	970277	970423	+	1
## 818	protein_coding	chr1	970521	970601	+	1
## 819	protein_coding	chr1	970521	970601	+	1
## 820	protein_coding	chr1	970686	970758	+	1
## 821	protein_coding	chr1	970686	970758	+	1
## 822	protein_coding	chr1	970879	971006	+	1
## 823	protein_coding	chr1	970879	971006	+	1
## 824	protein_coding	chr1	971113	971208	+	1
## 825	protein_coding	chr1	971113	971208	+	1
## 826	protein_coding	chr1	971324	971404	+	1
## 827	protein_coding	chr1	971324	971404	+	1
## 828	protein_coding	chr1	972075	972150	+	1
## 829	protein_coding	chr1	972075	972150	+	1
## 830	protein_coding	chr1	972288	972424	+	1
## 831	protein_coding	chr1	972288	972424	+	1
## 832	protein_coding	chr1	972861	973010	+	1
## 833	protein_coding	chr1	972861	973010	+	1
## 834	protein_coding	chr1	973186	973326	+	1
## 835	protein_coding	chr1	973186	973326	+	1
## 836	protein_coding	chr1	973500	973640	+	1
## 837	protein_coding	chr1	973500	973640	+	1
## 838	protein_coding	chr1	973833	974051	+	1
## 839	protein_coding	chr1	973833	974051	+	1
## 840	protein_coding	chr1	974316	974364	+	1
## 841	protein_coding	chr1	974316	974364	+	1
## 842	protein_coding	chr1	974442	975108	+	1
## 843	protein_coding	chr1	974442	974572	+	1
## 844	protein_coding	chr1	974573	974575	+	1
## 845	protein_coding	chr1	966497	966531	+	1
## 846	protein_coding	chr1	974573	975108	+	1
## 847	protein_coding	chr1	966502	975008	+	1
## 848	protein_coding	chr1	966502	966614	+	1
## 849	protein_coding	chr1	966532	966614	+	1
## 850	protein_coding	chr1	966532	966534	+	1
## 851	protein_coding	chr1	966704	966803	+	1
## 852	protein_coding	chr1	966704	966803	+	1
## 853	protein_coding	chr1	970277	970423	+	1

## 854	protein_coding	chr1	970277	970423	+	1
## 855	protein_coding	chr1	970521	970601	+	1
## 856	protein_coding	chr1	970521	970601	+	1
## 857	protein_coding	chr1	970686	971006	+	1
## 858	protein_coding	chr1	970686	971006	+	1
## 859	protein_coding	chr1	971077	971208	+	1
## 860	protein_coding	chr1	971077	971208	+	1
## 861	protein_coding	chr1	971324	971404	+	1
## 862	protein_coding	chr1	971324	971404	+	1
## 863	protein_coding	chr1	972075	972150	+	1
## 864	protein_coding	chr1	972075	972150	+	1
## 865	protein_coding	chr1	972288	972424	+	1
## 866	protein_coding	chr1	972288	972424	+	1
## 867	protein_coding	chr1	972861	973010	+	1
## 868	protein_coding	chr1	972861	973010	+	1
## 869	protein_coding	chr1	973186	973326	+	1
## 870	protein_coding	chr1	973186	973326	+	1
## 871	protein_coding	chr1	973500	973640	+	1
## 872	protein_coding	chr1	973500	973640	+	1
## 873	protein_coding	chr1	973833	974051	+	1
## 874	protein_coding	chr1	973833	974051	+	1
## 875	protein_coding	chr1	974316	974364	+	1
## 876	protein_coding	chr1	974316	974364	+	1
## 877	protein_coding	chr1	974442	975008	+	1
## 878	protein_coding	chr1	974442	974572	+	1
## 879	protein_coding	chr1	974573	974575	+	1
## 880	protein_coding	chr1	966502	966531	+	1
## 881	protein_coding	chr1	974573	975008	+	1
## 882	protein_coding	chr1	966502	975008	+	1
## 883	protein_coding	chr1	966502	966614	+	1
## 884	protein_coding	chr1	966532	966614	+	1
## 885	protein_coding	chr1	966532	966534	+	1
## 886	protein_coding	chr1	966704	966803	+	1
## 887	protein_coding	chr1	966704	966803	+	1
## 888	protein_coding	chr1	970277	970423	+	1
## 889	protein_coding	chr1	970277	970423	+	1
## 890	protein_coding	chr1	970521	970601	+	1
## 891	protein_coding	chr1	970521	970601	+	1
## 892	protein_coding	chr1	970686	970758	+	1
## 893	protein_coding	chr1	970686	970758	+	1
## 894	protein_coding	chr1	970879	971006	+	1
## 895	protein_coding	chr1	970879	971006	+	1
## 896	protein_coding	chr1	971077	971208	+	1
## 897	protein_coding	chr1	971077	971208	+	1
## 898	protein_coding	chr1	971324	971404	+	1
## 899	protein_coding	chr1	971324	971404	+	1
## 900	protein_coding	chr1	972075	972150	+	1
## 901	protein_coding	chr1	972075	972150	+	1
## 902	protein_coding	chr1	972288	972424	+	1
## 903	protein_coding	chr1	972288	972424	+	1
## 904	protein_coding	chr1	972861	973010	+	1
## 905	protein_coding	chr1	972861	973010	+	1
## 906	protein_coding	chr1	973500	973640	+	1
## 907	protein_coding	chr1	973500	973640	+	1

## 908	protein_coding	chr1	973833	974051	+	1
## 909	protein_coding	chr1	973833	974051	+	1
## 910	protein_coding	chr1	974316	974364	+	1
## 911	protein_coding	chr1	974316	974364	+	1
## 912	protein_coding	chr1	974442	975008	+	1
## 913	protein_coding	chr1	974442	974572	+	1
## 914	protein_coding	chr1	974573	974575	+	1
## 915	protein_coding	chr1	966502	966531	+	1
## 916	protein_coding	chr1	974573	975008	+	1
## 917	protein_coding	chr1	975204	982093	-	1
## 918	protein_coding	chr1	975204	982093	-	1
## 919	protein_coding	chr1	982065	982093	-	1
## 920	protein_coding	chr1	981137	981173	-	1
## 921	protein_coding	chr1	981137	981166	-	1
## 922	protein_coding	chr1	981164	981166	-	1
## 923	protein_coding	chr1	978881	980657	-	1
## 924	protein_coding	chr1	978881	980657	-	1
## 925	protein_coding	chr1	976499	976624	-	1
## 926	protein_coding	chr1	976499	976624	-	1
## 927	protein_coding	chr1	975204	976269	-	1
## 928	protein_coding	chr1	976175	976269	-	1
## 929	protein_coding	chr1	976172	976174	-	1
## 930	protein_coding	chr1	982065	982093	-	1
## 931	protein_coding	chr1	981167	981173	-	1
## 932	protein_coding	chr1	975204	976174	-	1
## 933	protein_coding	chr1	975205	981029	-	1
## 934	protein_coding	chr1	978881	981029	-	1
## 935	protein_coding	chr1	978881	981029	-	1
## 936	protein_coding	chr1	981027	981029	-	1
## 937	protein_coding	chr1	976499	976624	-	1
## 938	protein_coding	chr1	976499	976624	-	1
## 939	protein_coding	chr1	975205	976269	-	1
## 940	protein_coding	chr1	976175	976269	-	1
## 941	protein_coding	chr1	976172	976174	-	1
## 942	protein_coding	chr1	975205	976174	-	1
## 943	lncRNA	chr1	995966	998051	-	0
## 944	lncRNA	chr1	995966	998051	-	0
## 945	lncRNA	chr1	995966	998051	-	0
## 946	protein_coding	chr1	998962	1000172	-	1
## 947	protein_coding	chr1	998962	1000172	-	1
## 948	protein_coding	chr1	999692	1000172	-	1
## 949	protein_coding	chr1	999692	999973	-	1
## 950	protein_coding	chr1	999971	999973	-	1
## 951	protein_coding	chr1	999526	999613	-	1
## 952	protein_coding	chr1	999526	999613	-	1
## 953	protein_coding	chr1	998962	999432	-	1
## 954	protein_coding	chr1	999062	999432	-	1
## 955	protein_coding	chr1	999059	999061	-	1
## 956	protein_coding	chr1	999974	1000172	-	1
## 957	protein_coding	chr1	998962	999061	-	1
## 958	protein_coding	chr1	998964	1000111	-	1
## 959	protein_coding	chr1	999866	1000111	-	1
## 960	protein_coding	chr1	999866	999973	-	1
## 961	protein_coding	chr1	999971	999973	-	1

## 962	protein_coding	chr1	999692	999787	-	1
## 963	protein_coding	chr1	999692	999787	-	1
## 964	protein_coding	chr1	999526	999613	-	1
## 965	protein_coding	chr1	999526	999613	-	1
## 966	protein_coding	chr1	998964	999432	-	1
## 967	protein_coding	chr1	999062	999432	-	1
## 968	protein_coding	chr1	999059	999061	-	1
## 969	protein_coding	chr1	999974	1000111	-	1
## 970	protein_coding	chr1	998964	999061	-	1
## 971	protein_coding	chr1	998970	999981	-	1
## 972	protein_coding	chr1	999866	999981	-	1
## 973	protein_coding	chr1	999866	999973	-	1
## 974	protein_coding	chr1	999971	999973	-	1
## 975	protein_coding	chr1	999526	999613	-	1
## 976	protein_coding	chr1	999526	999613	-	1
## 977	protein_coding	chr1	998970	999432	-	1
## 978	protein_coding	chr1	999062	999432	-	1
## 979	protein_coding	chr1	999059	999061	-	1
## 980	protein_coding	chr1	999974	999981	-	1
## 981	protein_coding	chr1	998970	999061	-	1
## 982	protein_coding	chr1	1001138	1014540	+	1
## 983	protein_coding	chr1	1001138	1014540	+	1
## 984	protein_coding	chr1	1001138	1001281	+	1
## 985	protein_coding	chr1	1008194	1008279	+	1
## 986	protein_coding	chr1	1013984	1014540	+	1
## 987	protein_coding	chr1	1014005	1014475	+	1
## 988	protein_coding	chr1	1014005	1014007	+	1
## 989	protein_coding	chr1	1014476	1014478	+	1
## 990	protein_coding	chr1	1001138	1001281	+	1
## 991	protein_coding	chr1	1008194	1008279	+	1
## 992	protein_coding	chr1	1013984	1014004	+	1
## 993	protein_coding	chr1	1014476	1014540	+	1
## 994	protein_coding	chr1	1013497	1014540	+	1
## 995	protein_coding	chr1	1013497	1013576	+	1
## 996	protein_coding	chr1	1013574	1013576	+	1
## 997	protein_coding	chr1	1013574	1013576	+	1
## 998	protein_coding	chr1	1013984	1014540	+	1
## 999	protein_coding	chr1	1013984	1014475	+	1
## 1000	protein_coding	chr1	1014476	1014478	+	1
## 1001	protein_coding	chr1	1013497	1013573	+	1
## 1002	protein_coding	chr1	1014476	1014540	+	1
## 1003	processed_pseudogene	chr1	1008076	1008229	-	0
## 1004	processed_pseudogene	chr1	1008076	1008229	-	0
## 1005	processed_pseudogene	chr1	1008076	1008229	-	0
## 1006	lncRNA	chr1	1011997	1013193	-	0
## 1007	lncRNA	chr1	1011997	1013193	-	0
## 1008	lncRNA	chr1	1012917	1013193	-	0
## 1009	lncRNA	chr1	1011997	1012190	-	0
## 1010	protein_coding	chr1	1020120	1056118	+	1
## 1011	protein_coding	chr1	1020120	1056116	+	1
## 1012	protein_coding	chr1	1020120	1020373	+	1
## 1013	protein_coding	chr1	1020173	1020373	+	1
## 1014	protein_coding	chr1	1020173	1020175	+	1
## 1015	protein_coding	chr1	1022201	1022462	+	1

## 1016	protein_coding	chr1	1022201	1022462	+	1
## 1017	protein_coding	chr1	1035277	1035324	+	1
## 1018	protein_coding	chr1	1035277	1035324	+	1
## 1019	protein_coding	chr1	1040665	1040880	+	1
## 1020	protein_coding	chr1	1040665	1040880	+	1
## 1021	protein_coding	chr1	1041173	1041397	+	1
## 1022	protein_coding	chr1	1041173	1041397	+	1
## 1023	protein_coding	chr1	1041478	1041702	+	1
## 1024	protein_coding	chr1	1041478	1041702	+	1
## 1025	protein_coding	chr1	1041956	1042162	+	1
## 1026	protein_coding	chr1	1041956	1042162	+	1
## 1027	protein_coding	chr1	1043239	1043457	+	1
## 1028	protein_coding	chr1	1043239	1043457	+	1
## 1029	protein_coding	chr1	1043538	1043732	+	1
## 1030	protein_coding	chr1	1043538	1043732	+	1
## 1031	protein_coding	chr1	1043823	1044023	+	1
## 1032	protein_coding	chr1	1043823	1044023	+	1
## 1033	protein_coding	chr1	1044109	1044257	+	1
## 1034	protein_coding	chr1	1044109	1044257	+	1
## 1035	protein_coding	chr1	1044334	1044439	+	1
## 1036	protein_coding	chr1	1044334	1044439	+	1
## 1037	protein_coding	chr1	1045161	1045277	+	1
## 1038	protein_coding	chr1	1045161	1045277	+	1
## 1039	protein_coding	chr1	1045359	1045523	+	1
## 1040	protein_coding	chr1	1045359	1045523	+	1
## 1041	protein_coding	chr1	1045733	1045876	+	1
## 1042	protein_coding	chr1	1045733	1045876	+	1
## 1043	protein_coding	chr1	1045964	1046088	+	1
## 1044	protein_coding	chr1	1045964	1046088	+	1
## 1045	protein_coding	chr1	1046160	1046265	+	1
## 1046	protein_coding	chr1	1046160	1046265	+	1
## 1047	protein_coding	chr1	1046397	1046735	+	1
## 1048	protein_coding	chr1	1046397	1046735	+	1
## 1049	protein_coding	chr1	1046820	1046957	+	1
## 1050	protein_coding	chr1	1046820	1046957	+	1
## 1051	protein_coding	chr1	1047327	1047454	+	1
## 1052	protein_coding	chr1	1047327	1047454	+	1
## 1053	protein_coding	chr1	1047573	1047687	+	1
## 1054	protein_coding	chr1	1047573	1047687	+	1
## 1055	protein_coding	chr1	1047776	1047895	+	1
## 1056	protein_coding	chr1	1047776	1047895	+	1
## 1057	protein_coding	chr1	1048012	1048365	+	1
## 1058	protein_coding	chr1	1048012	1048365	+	1
## 1059	protein_coding	chr1	1048867	1049059	+	1
## 1060	protein_coding	chr1	1048867	1049059	+	1
## 1061	protein_coding	chr1	1049236	1049451	+	1
## 1062	protein_coding	chr1	1049236	1049451	+	1
## 1063	protein_coding	chr1	1049566	1049795	+	1
## 1064	protein_coding	chr1	1049566	1049795	+	1
## 1065	protein_coding	chr1	1049903	1050037	+	1
## 1066	protein_coding	chr1	1049903	1050037	+	1
## 1067	protein_coding	chr1	1050233	1050329	+	1
## 1068	protein_coding	chr1	1050233	1050329	+	1
## 1069	protein_coding	chr1	1050427	1050591	+	1

## 1070	protein_coding	chr1	1050427	1050591	+	1
## 1071	protein_coding	chr1	1050726	1050837	+	1
## 1072	protein_coding	chr1	1050726	1050837	+	1
## 1073	protein_coding	chr1	1051253	1051369	+	1
## 1074	protein_coding	chr1	1051253	1051369	+	1
## 1075	protein_coding	chr1	1051453	1051645	+	1
## 1076	protein_coding	chr1	1051453	1051645	+	1
## 1077	protein_coding	chr1	1051728	1051815	+	1
## 1078	protein_coding	chr1	1051728	1051815	+	1
## 1079	protein_coding	chr1	1053753	1053977	+	1
## 1080	protein_coding	chr1	1053753	1053977	+	1
## 1081	protein_coding	chr1	1054448	1054551	+	1
## 1082	protein_coding	chr1	1054448	1054551	+	1
## 1083	protein_coding	chr1	1054824	1056116	+	1
## 1084	protein_coding	chr1	1054824	1054978	+	1
## 1085	protein_coding	chr1	1054979	1054981	+	1
## 1086	protein_coding	chr1	1020120	1020172	+	1
## 1087	protein_coding	chr1	1054979	1056116	+	1
## 1088	protein_coding	chr1	1020123	1056118	+	1
## 1089	protein_coding	chr1	1020123	1020373	+	1
## 1090	protein_coding	chr1	1022201	1022462	+	1
## 1091	protein_coding	chr1	1022414	1022462	+	1
## 1092	protein_coding	chr1	1022414	1022416	+	1
## 1093	protein_coding	chr1	1035277	1035324	+	1
## 1094	protein_coding	chr1	1035277	1035324	+	1
## 1095	protein_coding	chr1	1040665	1040880	+	1
## 1096	protein_coding	chr1	1040665	1040880	+	1
## 1097	protein_coding	chr1	1041173	1041397	+	1
## 1098	protein_coding	chr1	1041173	1041397	+	1
## 1099	protein_coding	chr1	1041478	1041702	+	1
## 1100	protein_coding	chr1	1041478	1041702	+	1
## 1101	protein_coding	chr1	1041956	1042162	+	1
## 1102	protein_coding	chr1	1041956	1042162	+	1
## 1103	protein_coding	chr1	1043239	1043457	+	1
## 1104	protein_coding	chr1	1043239	1043457	+	1
## 1105	protein_coding	chr1	1043538	1043732	+	1
## 1106	protein_coding	chr1	1043538	1043732	+	1
## 1107	protein_coding	chr1	1043823	1044023	+	1
## 1108	protein_coding	chr1	1043823	1044023	+	1
## 1109	protein_coding	chr1	1044109	1044257	+	1
## 1110	protein_coding	chr1	1044109	1044257	+	1
## 1111	protein_coding	chr1	1044334	1044439	+	1
## 1112	protein_coding	chr1	1044334	1044439	+	1
## 1113	protein_coding	chr1	1045161	1045277	+	1
## 1114	protein_coding	chr1	1045161	1045277	+	1
## 1115	protein_coding	chr1	1045359	1045523	+	1
## 1116	protein_coding	chr1	1045359	1045523	+	1
## 1117	protein_coding	chr1	1045733	1045876	+	1
## 1118	protein_coding	chr1	1045733	1045876	+	1
## 1119	protein_coding	chr1	1045964	1046088	+	1
## 1120	protein_coding	chr1	1045964	1046088	+	1
## 1121	protein_coding	chr1	1046160	1046265	+	1
## 1122	protein_coding	chr1	1046160	1046265	+	1
## 1123	protein_coding	chr1	1046397	1046735	+	1

## 1124	protein_coding	chr1	1046397	1046735	+	1
## 1125	protein_coding	chr1	1046820	1046957	+	1
## 1126	protein_coding	chr1	1046820	1046957	+	1
## 1127	protein_coding	chr1	1047327	1047454	+	1
## 1128	protein_coding	chr1	1047327	1047454	+	1
## 1129	protein_coding	chr1	1047573	1047687	+	1
## 1130	protein_coding	chr1	1047573	1047687	+	1
## 1131	protein_coding	chr1	1047776	1047895	+	1
## 1132	protein_coding	chr1	1047776	1047895	+	1
## 1133	protein_coding	chr1	1048012	1048365	+	1
## 1134	protein_coding	chr1	1048012	1048365	+	1
## 1135	protein_coding	chr1	1048867	1049059	+	1
## 1136	protein_coding	chr1	1048867	1049059	+	1
## 1137	protein_coding	chr1	1049236	1049451	+	1
## 1138	protein_coding	chr1	1049236	1049451	+	1
## 1139	protein_coding	chr1	1049566	1049795	+	1
## 1140	protein_coding	chr1	1049566	1049795	+	1
## 1141	protein_coding	chr1	1049903	1050037	+	1
## 1142	protein_coding	chr1	1049903	1050037	+	1
## 1143	protein_coding	chr1	1050233	1050329	+	1
## 1144	protein_coding	chr1	1050233	1050329	+	1
## 1145	protein_coding	chr1	1050427	1050591	+	1
## 1146	protein_coding	chr1	1050427	1050591	+	1
## 1147	protein_coding	chr1	1050726	1050837	+	1
## 1148	protein_coding	chr1	1050726	1050837	+	1
## 1149	protein_coding	chr1	1051032	1051043	+	1
## 1150	protein_coding	chr1	1051032	1051043	+	1
## 1151	protein_coding	chr1	1051253	1051369	+	1
## 1152	protein_coding	chr1	1051253	1051369	+	1
## 1153	protein_coding	chr1	1051453	1051645	+	1
## 1154	protein_coding	chr1	1051453	1051645	+	1
## 1155	protein_coding	chr1	1051728	1051815	+	1
## 1156	protein_coding	chr1	1051728	1051815	+	1
## 1157	protein_coding	chr1	1051993	1052016	+	1
## 1158	protein_coding	chr1	1051993	1052016	+	1
## 1159	protein_coding	chr1	1053461	1053493	+	1
## 1160	protein_coding	chr1	1053461	1053493	+	1
## 1161	protein_coding	chr1	1053753	1053977	+	1
## 1162	protein_coding	chr1	1053753	1053977	+	1
## 1163	protein_coding	chr1	1054448	1054551	+	1
## 1164	protein_coding	chr1	1054448	1054551	+	1
## 1165	protein_coding	chr1	1054824	1056118	+	1
## 1166	protein_coding	chr1	1054824	1054978	+	1
## 1167	protein_coding	chr1	1054979	1054981	+	1
## 1168	protein_coding	chr1	1020123	1020373	+	1
## 1169	protein_coding	chr1	1022201	1022413	+	1
## 1170	protein_coding	chr1	1054979	1056118	+	1
## 1171	lncRNA	chr1	1055033	1056116	+	0
## 1172	lncRNA	chr1	1055033	1056116	+	0
## 1173	lncRNA	chr1	1055033	1055215	+	0
## 1174	lncRNA	chr1	1055898	1056116	+	0
## 1175	transcribed_unprocessed_pseudogene	chr1	1059708	1069355	+	0
## 1176	transcribed_unprocessed_pseudogene	chr1	1059708	1066459	+	0
## 1177	transcribed_unprocessed_pseudogene	chr1	1059708	1059782	+	0

## 1178	transcribed_unprocessed_pseudogene	chr1	1060277	1060393	+	0
## 1179	transcribed_unprocessed_pseudogene	chr1	1061020	1061117	+	0
## 1180	transcribed_unprocessed_pseudogene	chr1	1063079	1063201	+	0
## 1181	transcribed_unprocessed_pseudogene	chr1	1065830	1066459	+	0
## 1182	transcribed_unprocessed_pseudogene	chr1	1063079	1069355	+	0
## 1183	transcribed_unprocessed_pseudogene	chr1	1063079	1063201	+	0
## 1184	transcribed_unprocessed_pseudogene	chr1	1063480	1063566	+	0
## 1185	transcribed_unprocessed_pseudogene	chr1	1064210	1064401	+	0
## 1186	transcribed_unprocessed_pseudogene	chr1	1064490	1064589	+	0
## 1187	transcribed_unprocessed_pseudogene	chr1	1065352	1065475	+	0
## 1188	transcribed_unprocessed_pseudogene	chr1	1066587	1066667	+	0
## 1189	transcribed_unprocessed_pseudogene	chr1	1067566	1067646	+	0
## 1190	transcribed_unprocessed_pseudogene	chr1	1067869	1068003	+	0
## 1191	transcribed_unprocessed_pseudogene	chr1	1068577	1068724	+	0
## 1192	transcribed_unprocessed_pseudogene	chr1	1069208	1069355	+	0
## 1193	lncRNA	chr1	1062208	1063288	-	0
## 1194	lncRNA	chr1	1062208	1063288	-	0
## 1195	lncRNA	chr1	1063061	1063288	-	0
## 1196	lncRNA	chr1	1062208	1062808	-	0
## 1197	protein_coding	chr1	1070967	1074306	-	1
## 1198	protein_coding	chr1	1070967	1074306	-	1
## 1199	protein_coding	chr1	1074016	1074306	-	1
## 1200	protein_coding	chr1	1070967	1072575	-	1
## 1201	protein_coding	chr1	1071820	1072566	-	1
## 1202	protein_coding	chr1	1072564	1072566	-	1
## 1203	protein_coding	chr1	1071817	1071819	-	1
## 1204	protein_coding	chr1	1074016	1074306	-	1
## 1205	protein_coding	chr1	1070967	1071819	-	1
## 1206	protein_coding	chr1	1072567	1072575	-	1
## 1207	protein_coding	chr1	1081818	1116361	-	1
## 1208	protein_coding	chr1	1081818	1116081	-	1
## 1209	protein_coding	chr1	1116060	1116081	-	1
## 1210	protein_coding	chr1	1115022	1115075	-	1
## 1211	protein_coding	chr1	1091991	1092103	-	1
## 1212	protein_coding	chr1	1091472	1091565	-	1
## 1213	protein_coding	chr1	1091472	1091543	-	1
## 1214	protein_coding	chr1	1091541	1091543	-	1
## 1215	protein_coding	chr1	1090876	1090983	-	1
## 1216	protein_coding	chr1	1090876	1090983	-	1
## 1217	protein_coding	chr1	1090353	1090428	-	1
## 1218	protein_coding	chr1	1090353	1090428	-	1
## 1219	protein_coding	chr1	1087502	1087597	-	1
## 1220	protein_coding	chr1	1087502	1087597	-	1
## 1221	protein_coding	chr1	1087139	1087204	-	1
## 1222	protein_coding	chr1	1087139	1087204	-	1
## 1223	protein_coding	chr1	1085878	1086012	-	1
## 1224	protein_coding	chr1	1085878	1086012	-	1
## 1225	protein_coding	chr1	1084481	1084506	-	1
## 1226	protein_coding	chr1	1084481	1084506	-	1
## 1227	protein_coding	chr1	1083915	1084383	-	1
## 1228	protein_coding	chr1	1083915	1084383	-	1
## 1229	protein_coding	chr1	1081818	1082987	-	1
## 1230	protein_coding	chr1	1082896	1082987	-	1
## 1231	protein_coding	chr1	1082893	1082895	-	1

## 1232	protein_coding	chr1	1116060	1116081	-	1
## 1233	protein_coding	chr1	1115022	1115075	-	1
## 1234	protein_coding	chr1	1091991	1092103	-	1
## 1235	protein_coding	chr1	1091544	1091565	-	1
## 1236	protein_coding	chr1	1081818	1082895	-	1
## 1237	protein_coding	chr1	1081823	1116098	-	1
## 1238	protein_coding	chr1	1116060	1116098	-	1
## 1239	protein_coding	chr1	1091991	1092103	-	1
## 1240	protein_coding	chr1	1091472	1091565	-	1
## 1241	protein_coding	chr1	1091472	1091543	-	1
## 1242	protein_coding	chr1	1091541	1091543	-	1
## 1243	protein_coding	chr1	1090353	1090428	-	1
## 1244	protein_coding	chr1	1090353	1090428	-	1
## 1245	protein_coding	chr1	1087502	1087597	-	1
## 1246	protein_coding	chr1	1087502	1087597	-	1
## 1247	protein_coding	chr1	1087139	1087204	-	1
## 1248	protein_coding	chr1	1087139	1087204	-	1
## 1249	protein_coding	chr1	1085878	1086012	-	1
## 1250	protein_coding	chr1	1085878	1086012	-	1
## 1251	protein_coding	chr1	1084481	1084506	-	1
## 1252	protein_coding	chr1	1084481	1084506	-	1
## 1253	protein_coding	chr1	1084353	1084383	-	1
## 1254	protein_coding	chr1	1084353	1084383	-	1
## 1255	protein_coding	chr1	1081823	1082987	-	1
## 1256	protein_coding	chr1	1082896	1082987	-	1
## 1257	protein_coding	chr1	1082893	1082895	-	1
## 1258	protein_coding	chr1	1116060	1116098	-	1
## 1259	protein_coding	chr1	1091991	1092103	-	1
## 1260	protein_coding	chr1	1091544	1091565	-	1
## 1261	protein_coding	chr1	1081823	1082895	-	1
## 1262	protein_coding	chr1	1082235	1092174	-	1
## 1263	protein_coding	chr1	1091472	1092174	-	1
## 1264	protein_coding	chr1	1091472	1091543	-	1
## 1265	protein_coding	chr1	1091541	1091543	-	1
## 1266	protein_coding	chr1	1090353	1090428	-	1
## 1267	protein_coding	chr1	1090353	1090428	-	1
## 1268	protein_coding	chr1	1087502	1087597	-	1
## 1269	protein_coding	chr1	1087502	1087597	-	1
## 1270	protein_coding	chr1	1087139	1087204	-	1
## 1271	protein_coding	chr1	1087139	1087204	-	1
## 1272	protein_coding	chr1	1085878	1086012	-	1
## 1273	protein_coding	chr1	1085878	1086012	-	1
## 1274	protein_coding	chr1	1084481	1084506	-	1
## 1275	protein_coding	chr1	1084481	1084506	-	1
## 1276	protein_coding	chr1	1083915	1084383	-	1
## 1277	protein_coding	chr1	1083915	1084383	-	1
## 1278	protein_coding	chr1	1082235	1082987	-	1
## 1279	protein_coding	chr1	1082896	1082987	-	1
## 1280	protein_coding	chr1	1082893	1082895	-	1
## 1281	protein_coding	chr1	1091544	1092174	-	1
## 1282	protein_coding	chr1	1082235	1082895	-	1
## 1283	protein_coding	chr1	1082700	1106127	-	1
## 1284	protein_coding	chr1	1105956	1106127	-	1
## 1285	protein_coding	chr1	1091991	1092103	-	1

## 1286	protein_coding	chr1	1091472	1091565	-	1
## 1287	protein_coding	chr1	1091472	1091543	-	1
## 1288	protein_coding	chr1	1091541	1091543	-	1
## 1289	protein_coding	chr1	1090353	1090428	-	1
## 1290	protein_coding	chr1	1090353	1090428	-	1
## 1291	protein_coding	chr1	1087502	1087597	-	1
## 1292	protein_coding	chr1	1087502	1087597	-	1
## 1293	protein_coding	chr1	1087139	1087204	-	1
## 1294	protein_coding	chr1	1087139	1087204	-	1
## 1295	protein_coding	chr1	1085878	1086012	-	1
## 1296	protein_coding	chr1	1085878	1086012	-	1
## 1297	protein_coding	chr1	1084481	1084506	-	1
## 1298	protein_coding	chr1	1084481	1084506	-	1
## 1299	protein_coding	chr1	1084353	1084383	-	1
## 1300	protein_coding	chr1	1084353	1084383	-	1
## 1301	protein_coding	chr1	1082700	1082987	-	1
## 1302	protein_coding	chr1	1082896	1082987	-	1
## 1303	protein_coding	chr1	1082893	1082895	-	1
## 1304	protein_coding	chr1	1105956	1106127	-	1
## 1305	protein_coding	chr1	1091991	1092103	-	1
## 1306	protein_coding	chr1	1091544	1091565	-	1
## 1307	protein_coding	chr1	1082700	1082895	-	1
## 1308	lncRNA	chr1	1097585	1104598	+	0
## 1309	lncRNA	chr1	1097585	1104598	+	0
## 1310	lncRNA	chr1	1097585	1098113	+	0
## 1311	lncRNA	chr1	1104033	1104598	+	0
## 1312	lncRNA	chr1	1137017	1144056	+	1
## 1313	lncRNA	chr1	1137017	1144056	+	1
## 1314	lncRNA	chr1	1137017	1137110	+	1
## 1315	lncRNA	chr1	1140825	1141032	+	1
## 1316	lncRNA	chr1	1142739	1144056	+	1
## 1317	miRNA	chr1	1167104	1167198	+	1
## 1318	miRNA	chr1	1167104	1167198	+	1
## 1319	miRNA	chr1	1167104	1167198	+	1
## 1320	miRNA	chr1	1167863	1167952	+	1
## 1321	miRNA	chr1	1167863	1167952	+	1
## 1322	miRNA	chr1	1167863	1167952	+	1
## 1323	miRNA	chr1	1169005	1169087	+	1
## 1324	miRNA	chr1	1169005	1169087	+	1
## 1325	miRNA	chr1	1169005	1169087	+	1
## 1326	lncRNA	chr1	1169357	1170343	+	0
## 1327	lncRNA	chr1	1169357	1170343	+	0
## 1328	lncRNA	chr1	1169357	1170343	+	0
## 1329	lncRNA	chr1	1173056	1179555	-	1
## 1330	lncRNA	chr1	1173056	1179555	-	1
## 1331	lncRNA	chr1	1179365	1179555	-	1
## 1332	lncRNA	chr1	1173056	1176396	-	1
## 1333	protein_coding	chr1	1173884	1197935	+	1
## 1334	protein_coding	chr1	1173903	1197935	+	1
## 1335	protein_coding	chr1	1173903	1173926	+	1
## 1336	protein_coding	chr1	1174266	1174321	+	1
## 1337	protein_coding	chr1	1174424	1174489	+	1
## 1338	protein_coding	chr1	1179189	1179333	+	1
## 1339	protein_coding	chr1	1179216	1179333	+	1

## 1340	protein_coding	chr1	1179216	1179218	+	1
## 1341	protein_coding	chr1	1179657	1179737	+	1
## 1342	protein_coding	chr1	1179657	1179737	+	1
## 1343	protein_coding	chr1	1180034	1180340	+	1
## 1344	protein_coding	chr1	1180034	1180340	+	1
## 1345	protein_coding	chr1	1180483	1180601	+	1
## 1346	protein_coding	chr1	1180483	1180601	+	1
## 1347	protein_coding	chr1	1180731	1180860	+	1
## 1348	protein_coding	chr1	1180731	1180860	+	1
## 1349	protein_coding	chr1	1181741	1181815	+	1
## 1350	protein_coding	chr1	1181741	1181815	+	1
## 1351	protein_coding	chr1	1182361	1182446	+	1
## 1352	protein_coding	chr1	1182361	1182446	+	1
## 1353	protein_coding	chr1	1182876	1183047	+	1
## 1354	protein_coding	chr1	1182876	1183047	+	1
## 1355	protein_coding	chr1	1183920	1184091	+	1
## 1356	protein_coding	chr1	1183920	1184091	+	1
## 1357	protein_coding	chr1	1184969	1185109	+	1
## 1358	protein_coding	chr1	1184969	1185109	+	1
## 1359	protein_coding	chr1	1196600	1196716	+	1
## 1360	protein_coding	chr1	1196600	1196716	+	1
## 1361	protein_coding	chr1	1197093	1197186	+	1
## 1362	protein_coding	chr1	1197093	1197186	+	1
## 1363	protein_coding	chr1	1197438	1197935	+	1
## 1364	protein_coding	chr1	1197438	1197844	+	1
## 1365	protein_coding	chr1	1197845	1197847	+	1
## 1366	protein_coding	chr1	1173903	1173926	+	1
## 1367	protein_coding	chr1	1174266	1174321	+	1
## 1368	protein_coding	chr1	1174424	1174489	+	1
## 1369	protein_coding	chr1	1179189	1179215	+	1
## 1370	protein_coding	chr1	1197845	1197935	+	1
## 1371	protein_coding	chr1	1173906	1197933	+	1
## 1372	protein_coding	chr1	1173906	1173926	+	1
## 1373	protein_coding	chr1	1174285	1174321	+	1
## 1374	protein_coding	chr1	1174424	1174489	+	1
## 1375	protein_coding	chr1	1179189	1179333	+	1
## 1376	protein_coding	chr1	1179216	1179333	+	1
## 1377	protein_coding	chr1	1179216	1179218	+	1
## 1378	protein_coding	chr1	1179657	1179737	+	1
## 1379	protein_coding	chr1	1179657	1179737	+	1
## 1380	protein_coding	chr1	1180034	1180340	+	1
## 1381	protein_coding	chr1	1180034	1180340	+	1
## 1382	protein_coding	chr1	1180483	1180601	+	1
## 1383	protein_coding	chr1	1180483	1180601	+	1
## 1384	protein_coding	chr1	1180731	1180860	+	1
## 1385	protein_coding	chr1	1180731	1180860	+	1
## 1386	protein_coding	chr1	1181741	1181815	+	1
## 1387	protein_coding	chr1	1181741	1181815	+	1
## 1388	protein_coding	chr1	1182361	1182446	+	1
## 1389	protein_coding	chr1	1182361	1182446	+	1
## 1390	protein_coding	chr1	1182876	1183047	+	1
## 1391	protein_coding	chr1	1182876	1183047	+	1
## 1392	protein_coding	chr1	1183920	1184091	+	1
## 1393	protein_coding	chr1	1183920	1184091	+	1

## 1394	protein_coding	chr1	1184969	1185109	+	1
## 1395	protein_coding	chr1	1184969	1185109	+	1
## 1396	protein_coding	chr1	1196600	1196716	+	1
## 1397	protein_coding	chr1	1196600	1196716	+	1
## 1398	protein_coding	chr1	1197093	1197186	+	1
## 1399	protein_coding	chr1	1197093	1197186	+	1
## 1400	protein_coding	chr1	1197438	1197933	+	1
## 1401	protein_coding	chr1	1197438	1197844	+	1
## 1402	protein_coding	chr1	1197845	1197847	+	1
## 1403	protein_coding	chr1	1173906	1173926	+	1
## 1404	protein_coding	chr1	1174285	1174321	+	1
## 1405	protein_coding	chr1	1174424	1174489	+	1
## 1406	protein_coding	chr1	1179189	1179215	+	1
## 1407	protein_coding	chr1	1197845	1197933	+	1
## 1408	protein_coding	chr1	1179697	1185864	+	1
## 1409	protein_coding	chr1	1179697	1179853	+	1
## 1410	protein_coding	chr1	1180034	1180340	+	1
## 1411	protein_coding	chr1	1180054	1180340	+	1
## 1412	protein_coding	chr1	1180054	1180056	+	1
## 1413	protein_coding	chr1	1180483	1180601	+	1
## 1414	protein_coding	chr1	1180483	1180601	+	1
## 1415	protein_coding	chr1	1180731	1180860	+	1
## 1416	protein_coding	chr1	1180731	1180860	+	1
## 1417	protein_coding	chr1	1181741	1181815	+	1
## 1418	protein_coding	chr1	1181741	1181815	+	1
## 1419	protein_coding	chr1	1182361	1182446	+	1
## 1420	protein_coding	chr1	1182361	1182446	+	1
## 1421	protein_coding	chr1	1182876	1183047	+	1
## 1422	protein_coding	chr1	1182876	1183047	+	1
## 1423	protein_coding	chr1	1183920	1184091	+	1
## 1424	protein_coding	chr1	1183920	1184091	+	1
## 1425	protein_coding	chr1	1184969	1185864	+	1
## 1426	protein_coding	chr1	1184969	1185139	+	1
## 1427	protein_coding	chr1	1185140	1185142	+	1
## 1428	protein_coding	chr1	1179697	1179853	+	1
## 1429	protein_coding	chr1	1180034	1180053	+	1
## 1430	protein_coding	chr1	1185140	1185864	+	1
## 1431	protein_coding	chr1	1203508	1206592	-	1
## 1432	protein_coding	chr1	1203508	1206571	-	1
## 1433	protein_coding	chr1	1206385	1206571	-	1
## 1434	protein_coding	chr1	1206385	1206571	-	1
## 1435	protein_coding	chr1	1206569	1206571	-	1
## 1436	protein_coding	chr1	1205370	1205492	-	1
## 1437	protein_coding	chr1	1205370	1205492	-	1
## 1438	protein_coding	chr1	1204399	1204486	-	1
## 1439	protein_coding	chr1	1204399	1204486	-	1
## 1440	protein_coding	chr1	1203508	1203960	-	1
## 1441	protein_coding	chr1	1203594	1203960	-	1
## 1442	protein_coding	chr1	1203591	1203593	-	1
## 1443	protein_coding	chr1	1203508	1203593	-	1
## 1444	protein_coding	chr1	1203508	1206592	-	1
## 1445	protein_coding	chr1	1206385	1206592	-	1
## 1446	protein_coding	chr1	1206385	1206571	-	1
## 1447	protein_coding	chr1	1206569	1206571	-	1

## 1448	protein_coding	chr1	1205370	1205492	-	1
## 1449	protein_coding	chr1	1205370	1205492	-	1
## 1450	protein_coding	chr1	1204399	1204486	-	1
## 1451	protein_coding	chr1	1204399	1204486	-	1
## 1452	protein_coding	chr1	1204034	1204236	-	1
## 1453	protein_coding	chr1	1204034	1204236	-	1
## 1454	protein_coding	chr1	1203508	1203968	-	1
## 1455	protein_coding	chr1	1203847	1203968	-	1
## 1456	protein_coding	chr1	1203844	1203846	-	1
## 1457	protein_coding	chr1	1206572	1206592	-	1
## 1458	protein_coding	chr1	1203508	1203846	-	1
## 1459	protein_coding	chr1	1203844	1205680	-	1
## 1460	protein_coding	chr1	1205370	1205680	-	1
## 1461	protein_coding	chr1	1205370	1205463	-	1
## 1462	protein_coding	chr1	1205461	1205463	-	1
## 1463	protein_coding	chr1	1204399	1204486	-	1
## 1464	protein_coding	chr1	1204399	1204486	-	1
## 1465	protein_coding	chr1	1204034	1204236	-	1
## 1466	protein_coding	chr1	1204034	1204236	-	1
## 1467	protein_coding	chr1	1203844	1203968	-	1
## 1468	protein_coding	chr1	1203847	1203968	-	1
## 1469	protein_coding	chr1	1203844	1203846	-	1
## 1470	protein_coding	chr1	1205464	1205680	-	1
## 1471	protein_coding	chr1	1203844	1203846	-	1
## 1472	protein_coding	chr1	1203844	1206571	-	1
## 1473	protein_coding	chr1	1206385	1206571	-	1
## 1474	protein_coding	chr1	1206385	1206571	-	1
## 1475	protein_coding	chr1	1206569	1206571	-	1
## 1476	protein_coding	chr1	1205370	1205492	-	1
## 1477	protein_coding	chr1	1205370	1205492	-	1
## 1478	protein_coding	chr1	1204399	1204486	-	1
## 1479	protein_coding	chr1	1204399	1204486	-	1
## 1480	protein_coding	chr1	1204055	1204236	-	1
## 1481	protein_coding	chr1	1204055	1204236	-	1
## 1482	protein_coding	chr1	1203844	1203968	-	1
## 1483	protein_coding	chr1	1203847	1203968	-	1
## 1484	protein_coding	chr1	1203844	1203846	-	1
## 1485	protein_coding	chr1	1203844	1203846	-	1
## 1486	protein_coding	chr1	1211340	1214153	-	1
## 1487	protein_coding	chr1	1211340	1214153	-	1
## 1488	protein_coding	chr1	1213983	1214153	-	1
## 1489	protein_coding	chr1	1213983	1214127	-	1
## 1490	protein_coding	chr1	1214125	1214127	-	1
## 1491	protein_coding	chr1	1213663	1213785	-	1
## 1492	protein_coding	chr1	1213663	1213785	-	1
## 1493	protein_coding	chr1	1212992	1213093	-	1
## 1494	protein_coding	chr1	1212992	1213093	-	1
## 1495	protein_coding	chr1	1212638	1212704	-	1
## 1496	protein_coding	chr1	1212638	1212704	-	1
## 1497	protein_coding	chr1	1211942	1212138	-	1
## 1498	protein_coding	chr1	1211942	1212138	-	1
## 1499	protein_coding	chr1	1211704	1211832	-	1
## 1500	protein_coding	chr1	1211704	1211832	-	1
## 1501	protein_coding	chr1	1211340	1211625	-	1

## 1502	protein_coding	chr1	1211558	1211625	-	1
## 1503	protein_coding	chr1	1211555	1211557	-	1
## 1504	protein_coding	chr1	1214128	1214153	-	1
## 1505	protein_coding	chr1	1211340	1211557	-	1
## 1506	protein_coding	chr1	1216908	1232067	-	1
## 1507	protein_coding	chr1	1216908	1232001	-	1
## 1508	protein_coding	chr1	1231892	1232001	-	1
## 1509	protein_coding	chr1	1228468	1228946	-	1
## 1510	protein_coding	chr1	1228468	1228772	-	1
## 1511	protein_coding	chr1	1228770	1228772	-	1
## 1512	protein_coding	chr1	1223832	1223968	-	1
## 1513	protein_coding	chr1	1223832	1223968	-	1
## 1514	protein_coding	chr1	1223244	1223357	-	1
## 1515	protein_coding	chr1	1223244	1223357	-	1
## 1516	protein_coding	chr1	1218769	1218927	-	1
## 1517	protein_coding	chr1	1218769	1218927	-	1
## 1518	protein_coding	chr1	1218458	1218633	-	1
## 1519	protein_coding	chr1	1218458	1218633	-	1
## 1520	protein_coding	chr1	1216908	1217688	-	1
## 1521	protein_coding	chr1	1217515	1217688	-	1
## 1522	protein_coding	chr1	1217512	1217514	-	1
## 1523	protein_coding	chr1	1231892	1232001	-	1
## 1524	protein_coding	chr1	1228773	1228946	-	1
## 1525	protein_coding	chr1	1216908	1217514	-	1
## 1526	protein_coding	chr1	1216909	1232067	-	1
## 1527	protein_coding	chr1	1231892	1232067	-	1
## 1528	protein_coding	chr1	1228468	1228946	-	1
## 1529	protein_coding	chr1	1228468	1228793	-	1
## 1530	protein_coding	chr1	1228791	1228793	-	1
## 1531	protein_coding	chr1	1223832	1223968	-	1
## 1532	protein_coding	chr1	1223832	1223968	-	1
## 1533	protein_coding	chr1	1223244	1223357	-	1
## 1534	protein_coding	chr1	1223244	1223357	-	1
## 1535	protein_coding	chr1	1218769	1218927	-	1
## 1536	protein_coding	chr1	1218769	1218927	-	1
## 1537	protein_coding	chr1	1218458	1218633	-	1
## 1538	protein_coding	chr1	1218458	1218633	-	1
## 1539	protein_coding	chr1	1216909	1217804	-	1
## 1540	protein_coding	chr1	1217673	1217804	-	1
## 1541	protein_coding	chr1	1217670	1217672	-	1
## 1542	protein_coding	chr1	1231892	1232067	-	1
## 1543	protein_coding	chr1	1228794	1228946	-	1
## 1544	protein_coding	chr1	1216909	1217672	-	1
## 1545	protein_coding	chr1	1216931	1232031	-	1
## 1546	protein_coding	chr1	1231892	1232031	-	1
## 1547	protein_coding	chr1	1228468	1228946	-	1
## 1548	protein_coding	chr1	1228468	1228772	-	1
## 1549	protein_coding	chr1	1228770	1228772	-	1
## 1550	protein_coding	chr1	1223832	1223968	-	1
## 1551	protein_coding	chr1	1223832	1223968	-	1
## 1552	protein_coding	chr1	1223244	1223357	-	1
## 1553	protein_coding	chr1	1223244	1223357	-	1
## 1554	protein_coding	chr1	1218769	1218927	-	1
## 1555	protein_coding	chr1	1218769	1218927	-	1

## 1556	protein_coding	chr1	1218458	1218633	-	1
## 1557	protein_coding	chr1	1218458	1218633	-	1
## 1558	protein_coding	chr1	1216931	1217804	-	1
## 1559	protein_coding	chr1	1217673	1217804	-	1
## 1560	protein_coding	chr1	1217670	1217672	-	1
## 1561	protein_coding	chr1	1231892	1232031	-	1
## 1562	protein_coding	chr1	1228773	1228946	-	1
## 1563	protein_coding	chr1	1216931	1217672	-	1
## 1564	protein_coding	chr1	1217512	1228793	-	1
## 1565	protein_coding	chr1	1228468	1228793	-	1
## 1566	protein_coding	chr1	1228468	1228793	-	1
## 1567	protein_coding	chr1	1228791	1228793	-	1
## 1568	protein_coding	chr1	1223832	1223968	-	1
## 1569	protein_coding	chr1	1223832	1223968	-	1
## 1570	protein_coding	chr1	1223244	1223357	-	1
## 1571	protein_coding	chr1	1223244	1223357	-	1
## 1572	protein_coding	chr1	1218769	1218927	-	1
## 1573	protein_coding	chr1	1218769	1218927	-	1
## 1574	protein_coding	chr1	1218458	1218633	-	1
## 1575	protein_coding	chr1	1218458	1218633	-	1
## 1576	protein_coding	chr1	1217512	1217688	-	1
## 1577	protein_coding	chr1	1217515	1217688	-	1
## 1578	protein_coding	chr1	1217512	1217514	-	1
## 1579	protein_coding	chr1	1217512	1217514	-	1
## 1580	protein_coding	chr1	1232237	1235041	+	1
## 1581	protein_coding	chr1	1232237	1235041	+	1
## 1582	protein_coding	chr1	1232237	1235041	+	1
## 1583	protein_coding	chr1	1232279	1233265	+	1
## 1584	protein_coding	chr1	1232279	1232281	+	1
## 1585	protein_coding	chr1	1233266	1233268	+	1
## 1586	protein_coding	chr1	1232237	1232278	+	1
## 1587	protein_coding	chr1	1233266	1235041	+	1
## 1588	protein_coding	chr1	1242446	1246722	-	1
## 1589	protein_coding	chr1	1242453	1246722	-	1
## 1590	protein_coding	chr1	1246514	1246722	-	1
## 1591	protein_coding	chr1	1246514	1246690	-	1
## 1592	protein_coding	chr1	1246688	1246690	-	1
## 1593	protein_coding	chr1	1244381	1244497	-	1
## 1594	protein_coding	chr1	1244381	1244497	-	1
## 1595	protein_coding	chr1	1244191	1244275	-	1
## 1596	protein_coding	chr1	1244191	1244275	-	1
## 1597	protein_coding	chr1	1243954	1244105	-	1
## 1598	protein_coding	chr1	1243954	1244105	-	1
## 1599	protein_coding	chr1	1243444	1243552	-	1
## 1600	protein_coding	chr1	1243444	1243552	-	1
## 1601	protein_coding	chr1	1243062	1243152	-	1
## 1602	protein_coding	chr1	1243062	1243152	-	1
## 1603	protein_coding	chr1	1242835	1242913	-	1
## 1604	protein_coding	chr1	1242835	1242913	-	1
## 1605	protein_coding	chr1	1242453	1242646	-	1
## 1606	protein_coding	chr1	1242551	1242646	-	1
## 1607	protein_coding	chr1	1242548	1242550	-	1
## 1608	protein_coding	chr1	1246691	1246722	-	1
## 1609	protein_coding	chr1	1242453	1242550	-	1

## 1610	lncRNA	chr1	1249777	1251334	-	0
## 1611	lncRNA	chr1	1249777	1251334	-	0
## 1612	lncRNA	chr1	1249777	1251334	-	0
## 1613	protein_coding	chr1	1253909	1273885	-	1
## 1614	protein_coding	chr1	1253914	1273854	-	1
## 1615	protein_coding	chr1	1273666	1273854	-	1
## 1616	protein_coding	chr1	1267733	1267992	-	1
## 1617	protein_coding	chr1	1263346	1263386	-	1
## 1618	protein_coding	chr1	1263346	1263361	-	1
## 1619	protein_coding	chr1	1263359	1263361	-	1
## 1620	protein_coding	chr1	1257208	1257310	-	1
## 1621	protein_coding	chr1	1257208	1257310	-	1
## 1622	protein_coding	chr1	1256992	1257130	-	1
## 1623	protein_coding	chr1	1256992	1257130	-	1
## 1624	protein_coding	chr1	1256045	1256125	-	1
## 1625	protein_coding	chr1	1256045	1256125	-	1
## 1626	protein_coding	chr1	1253914	1255487	-	1
## 1627	protein_coding	chr1	1255206	1255487	-	1
## 1628	protein_coding	chr1	1255203	1255205	-	1
## 1629	protein_coding	chr1	1273666	1273854	-	1
## 1630	protein_coding	chr1	1267733	1267992	-	1
## 1631	protein_coding	chr1	1263362	1263386	-	1
## 1632	protein_coding	chr1	1253914	1255205	-	1
## 1633	protein_coding	chr1	1254470	1273885	-	1
## 1634	protein_coding	chr1	1273666	1273885	-	1
## 1635	protein_coding	chr1	1267862	1267992	-	1
## 1636	protein_coding	chr1	1267862	1267992	-	1
## 1637	protein_coding	chr1	1267990	1267992	-	1
## 1638	protein_coding	chr1	1263346	1263386	-	1
## 1639	protein_coding	chr1	1263346	1263386	-	1
## 1640	protein_coding	chr1	1257208	1257310	-	1
## 1641	protein_coding	chr1	1257208	1257310	-	1
## 1642	protein_coding	chr1	1256992	1257130	-	1
## 1643	protein_coding	chr1	1256992	1257130	-	1
## 1644	protein_coding	chr1	1256045	1256125	-	1
## 1645	protein_coding	chr1	1256045	1256125	-	1
## 1646	protein_coding	chr1	1254470	1255487	-	1
## 1647	protein_coding	chr1	1255206	1255487	-	1
## 1648	protein_coding	chr1	1255203	1255205	-	1
## 1649	protein_coding	chr1	1273666	1273885	-	1
## 1650	protein_coding	chr1	1254470	1255205	-	1
## 1651	protein_coding	chr1	1254985	1273855	-	1
## 1652	protein_coding	chr1	1273666	1273855	-	1
## 1653	protein_coding	chr1	1263346	1263386	-	1
## 1654	protein_coding	chr1	1263346	1263361	-	1
## 1655	protein_coding	chr1	1263359	1263361	-	1
## 1656	protein_coding	chr1	1257208	1257310	-	1
## 1657	protein_coding	chr1	1257208	1257310	-	1
## 1658	protein_coding	chr1	1256992	1257130	-	1
## 1659	protein_coding	chr1	1256992	1257130	-	1
## 1660	protein_coding	chr1	1256045	1256125	-	1
## 1661	protein_coding	chr1	1256045	1256125	-	1
## 1662	protein_coding	chr1	1254985	1255487	-	1
## 1663	protein_coding	chr1	1255206	1255487	-	1

## 1664	protein_coding	chr1	1255203	1255205	-	1
## 1665	protein_coding	chr1	1273666	1273855	-	1
## 1666	protein_coding	chr1	1263362	1263386	-	1
## 1667	protein_coding	chr1	1254985	1255205	-	1
## 1668	protein_coding	chr1	1255164	1273726	-	1
## 1669	protein_coding	chr1	1273499	1273726	-	1
## 1670	protein_coding	chr1	1267862	1267992	-	1
## 1671	protein_coding	chr1	1267862	1267992	-	1
## 1672	protein_coding	chr1	1267990	1267992	-	1
## 1673	protein_coding	chr1	1263346	1263386	-	1
## 1674	protein_coding	chr1	1263346	1263386	-	1
## 1675	protein_coding	chr1	1257208	1257310	-	1
## 1676	protein_coding	chr1	1257208	1257310	-	1
## 1677	protein_coding	chr1	1256992	1257130	-	1
## 1678	protein_coding	chr1	1256992	1257130	-	1
## 1679	protein_coding	chr1	1256045	1256125	-	1
## 1680	protein_coding	chr1	1256045	1256125	-	1
## 1681	protein_coding	chr1	1255164	1255487	-	1
## 1682	protein_coding	chr1	1255206	1255487	-	1
## 1683	protein_coding	chr1	1255203	1255205	-	1
## 1684	protein_coding	chr1	1273499	1273726	-	1
## 1685	protein_coding	chr1	1255164	1255205	-	1
## 1686	protein_coding	chr1	1255178	1273833	-	1
## 1687	protein_coding	chr1	1273666	1273833	-	1
## 1688	protein_coding	chr1	1267862	1267992	-	1
## 1689	protein_coding	chr1	1267862	1267992	-	1
## 1690	protein_coding	chr1	1267990	1267992	-	1
## 1691	protein_coding	chr1	1264783	1264830	-	1
## 1692	protein_coding	chr1	1264783	1264830	-	1
## 1693	protein_coding	chr1	1263346	1263386	-	1
## 1694	protein_coding	chr1	1263346	1263386	-	1
## 1695	protein_coding	chr1	1257208	1257310	-	1
## 1696	protein_coding	chr1	1257208	1257310	-	1
## 1697	protein_coding	chr1	1256992	1257130	-	1
## 1698	protein_coding	chr1	1256992	1257130	-	1
## 1699	protein_coding	chr1	1256045	1256125	-	1
## 1700	protein_coding	chr1	1256045	1256125	-	1
## 1701	protein_coding	chr1	1255178	1255487	-	1
## 1702	protein_coding	chr1	1255206	1255487	-	1
## 1703	protein_coding	chr1	1255203	1255205	-	1
## 1704	protein_coding	chr1	1273666	1273833	-	1
## 1705	protein_coding	chr1	1255178	1255205	-	1
## 1706	lncRNA	chr1	1275223	1280420	+	1
## 1707	lncRNA	chr1	1275223	1280420	+	1
## 1708	lncRNA	chr1	1275223	1275299	+	1
## 1709	lncRNA	chr1	1279068	1279148	+	1
## 1710	lncRNA	chr1	1280311	1280420	+	1
## 1711	lncRNA	chr1	1275237	1279393	+	1
## 1712	lncRNA	chr1	1275237	1275299	+	1
## 1713	lncRNA	chr1	1279068	1279393	+	1
## 1714	protein_coding	chr1	1280436	1292029	+	1
## 1715	protein_coding	chr1	1280436	1292019	+	1
## 1716	protein_coding	chr1	1280436	1280666	+	1
## 1717	protein_coding	chr1	1280662	1280666	+	1

## 1718	protein_coding	chr1	1280662	1280664	+	1
## 1719	protein_coding	chr1	1281226	1281297	+	1
## 1720	protein_coding	chr1	1281226	1281297	+	1
## 1721	protein_coding	chr1	1281411	1281610	+	1
## 1722	protein_coding	chr1	1281411	1281610	+	1
## 1723	protein_coding	chr1	1282242	1282315	+	1
## 1724	protein_coding	chr1	1282242	1282315	+	1
## 1725	protein_coding	chr1	1283978	1284090	+	1
## 1726	protein_coding	chr1	1283978	1284090	+	1
## 1727	protein_coding	chr1	1285571	1285664	+	1
## 1728	protein_coding	chr1	1285571	1285664	+	1
## 1729	protein_coding	chr1	1285926	1286278	+	1
## 1730	protein_coding	chr1	1285926	1286278	+	1
## 1731	protein_coding	chr1	1286768	1286975	+	1
## 1732	protein_coding	chr1	1286768	1286975	+	1
## 1733	protein_coding	chr1	1287109	1287299	+	1
## 1734	protein_coding	chr1	1287109	1287299	+	1
## 1735	protein_coding	chr1	1287508	1287596	+	1
## 1736	protein_coding	chr1	1287508	1287596	+	1
## 1737	protein_coding	chr1	1287673	1287836	+	1
## 1738	protein_coding	chr1	1287673	1287836	+	1
## 1739	protein_coding	chr1	1287939	1288037	+	1
## 1740	protein_coding	chr1	1287939	1288037	+	1
## 1741	protein_coding	chr1	1290271	1290388	+	1
## 1742	protein_coding	chr1	1290271	1290388	+	1
## 1743	protein_coding	chr1	1290477	1290555	+	1
## 1744	protein_coding	chr1	1290477	1290555	+	1
## 1745	protein_coding	chr1	1290637	1290694	+	1
## 1746	protein_coding	chr1	1290637	1290694	+	1
## 1747	protein_coding	chr1	1290895	1290953	+	1
## 1748	protein_coding	chr1	1290895	1290953	+	1
## 1749	protein_coding	chr1	1291065	1291140	+	1
## 1750	protein_coding	chr1	1291065	1291140	+	1
## 1751	protein_coding	chr1	1291254	1292019	+	1
## 1752	protein_coding	chr1	1291254	1291607	+	1
## 1753	protein_coding	chr1	1291608	1291610	+	1
## 1754	protein_coding	chr1	1280436	1280661	+	1
## 1755	protein_coding	chr1	1291608	1292019	+	1
## 1756	protein_coding	chr1	1280588	1292024	+	1
## 1757	protein_coding	chr1	1280588	1281610	+	1
## 1758	protein_coding	chr1	1282242	1282315	+	1
## 1759	protein_coding	chr1	1283978	1284090	+	1
## 1760	protein_coding	chr1	1284025	1284090	+	1
## 1761	protein_coding	chr1	1284025	1284027	+	1
## 1762	protein_coding	chr1	1285926	1286278	+	1
## 1763	protein_coding	chr1	1285926	1286278	+	1
## 1764	protein_coding	chr1	1286768	1286975	+	1
## 1765	protein_coding	chr1	1286768	1286975	+	1
## 1766	protein_coding	chr1	1287109	1287299	+	1
## 1767	protein_coding	chr1	1287109	1287299	+	1
## 1768	protein_coding	chr1	1287508	1287596	+	1
## 1769	protein_coding	chr1	1287508	1287596	+	1
## 1770	protein_coding	chr1	1287673	1287836	+	1
## 1771	protein_coding	chr1	1287673	1287836	+	1

## 1772	protein_coding	chr1	1287939	1288037	+	1
## 1773	protein_coding	chr1	1287939	1288037	+	1
## 1774	protein_coding	chr1	1290271	1290388	+	1
## 1775	protein_coding	chr1	1290271	1290388	+	1
## 1776	protein_coding	chr1	1290477	1290555	+	1
## 1777	protein_coding	chr1	1290477	1290555	+	1
## 1778	protein_coding	chr1	1290637	1290694	+	1
## 1779	protein_coding	chr1	1290637	1290694	+	1
## 1780	protein_coding	chr1	1290895	1290953	+	1
## 1781	protein_coding	chr1	1290895	1290953	+	1
## 1782	protein_coding	chr1	1291065	1291140	+	1
## 1783	protein_coding	chr1	1291065	1291140	+	1
## 1784	protein_coding	chr1	1291254	1292024	+	1
## 1785	protein_coding	chr1	1291254	1291607	+	1
## 1786	protein_coding	chr1	1291608	1291610	+	1
## 1787	protein_coding	chr1	1280588	1281610	+	1
## 1788	protein_coding	chr1	1282242	1282315	+	1
## 1789	protein_coding	chr1	1283978	1284024	+	1
## 1790	protein_coding	chr1	1291608	1292024	+	1
## 1791	protein_coding	chr1	1281224	1292029	+	1
## 1792	protein_coding	chr1	1281224	1281297	+	1
## 1793	protein_coding	chr1	1281411	1281610	+	1
## 1794	protein_coding	chr1	1282242	1282315	+	1
## 1795	protein_coding	chr1	1283978	1284090	+	1
## 1796	protein_coding	chr1	1284025	1284090	+	1
## 1797	protein_coding	chr1	1284025	1284027	+	1
## 1798	protein_coding	chr1	1285926	1286278	+	1
## 1799	protein_coding	chr1	1285926	1286278	+	1
## 1800	protein_coding	chr1	1286768	1286975	+	1
## 1801	protein_coding	chr1	1286768	1286975	+	1
## 1802	protein_coding	chr1	1287109	1287299	+	1
## 1803	protein_coding	chr1	1287109	1287299	+	1
## 1804	protein_coding	chr1	1287508	1287596	+	1
## 1805	protein_coding	chr1	1287508	1287596	+	1
## 1806	protein_coding	chr1	1287673	1287836	+	1
## 1807	protein_coding	chr1	1287673	1287836	+	1
## 1808	protein_coding	chr1	1287939	1288037	+	1
## 1809	protein_coding	chr1	1287939	1288037	+	1
## 1810	protein_coding	chr1	1290271	1290388	+	1
## 1811	protein_coding	chr1	1290271	1290388	+	1
## 1812	protein_coding	chr1	1290477	1290555	+	1
## 1813	protein_coding	chr1	1290477	1290555	+	1
## 1814	protein_coding	chr1	1290637	1290694	+	1
## 1815	protein_coding	chr1	1290637	1290694	+	1
## 1816	protein_coding	chr1	1290895	1290953	+	1
## 1817	protein_coding	chr1	1290895	1290953	+	1
## 1818	protein_coding	chr1	1291065	1291140	+	1
## 1819	protein_coding	chr1	1291065	1291140	+	1
## 1820	protein_coding	chr1	1291254	1292029	+	1
## 1821	protein_coding	chr1	1291254	1291607	+	1
## 1822	protein_coding	chr1	1291608	1291610	+	1
## 1823	protein_coding	chr1	1281224	1281297	+	1
## 1824	protein_coding	chr1	1281411	1281610	+	1
## 1825	protein_coding	chr1	1282242	1282315	+	1

## 1826	protein_coding	chr1	1283978	1284024	+	1
## 1827	protein_coding	chr1	1291608	1292029	+	1
## 1828	protein_coding	chr1	1282109	1292024	+	1
## 1829	protein_coding	chr1	1282109	1282315	+	1
## 1830	protein_coding	chr1	1282259	1282315	+	1
## 1831	protein_coding	chr1	1282259	1282261	+	1
## 1832	protein_coding	chr1	1283978	1284090	+	1
## 1833	protein_coding	chr1	1283978	1284090	+	1
## 1834	protein_coding	chr1	1285571	1285664	+	1
## 1835	protein_coding	chr1	1285571	1285664	+	1
## 1836	protein_coding	chr1	1285926	1286278	+	1
## 1837	protein_coding	chr1	1285926	1286278	+	1
## 1838	protein_coding	chr1	1286768	1286975	+	1
## 1839	protein_coding	chr1	1286768	1286975	+	1
## 1840	protein_coding	chr1	1287109	1287299	+	1
## 1841	protein_coding	chr1	1287109	1287299	+	1
## 1842	protein_coding	chr1	1287508	1287596	+	1
## 1843	protein_coding	chr1	1287508	1287596	+	1
## 1844	protein_coding	chr1	1287673	1287836	+	1
## 1845	protein_coding	chr1	1287673	1287836	+	1
## 1846	protein_coding	chr1	1287939	1288037	+	1
## 1847	protein_coding	chr1	1287939	1288037	+	1
## 1848	protein_coding	chr1	1290271	1290388	+	1
## 1849	protein_coding	chr1	1290271	1290388	+	1
## 1850	protein_coding	chr1	1290477	1290555	+	1
## 1851	protein_coding	chr1	1290477	1290555	+	1
## 1852	protein_coding	chr1	1290637	1290694	+	1
## 1853	protein_coding	chr1	1290637	1290694	+	1
## 1854	protein_coding	chr1	1290895	1290953	+	1
## 1855	protein_coding	chr1	1290895	1290953	+	1
## 1856	protein_coding	chr1	1291065	1291140	+	1
## 1857	protein_coding	chr1	1291065	1291140	+	1
## 1858	protein_coding	chr1	1291254	1292024	+	1
## 1859	protein_coding	chr1	1291254	1291607	+	1
## 1860	protein_coding	chr1	1291608	1291610	+	1
## 1861	protein_coding	chr1	1282109	1282258	+	1
## 1862	protein_coding	chr1	1291608	1292024	+	1
## 1863	protein_coding	chr1	1292390	1309609	-	1
## 1864	protein_coding	chr1	1292391	1307930	-	1
## 1865	protein_coding	chr1	1307769	1307930	-	1
## 1866	protein_coding	chr1	1307769	1307815	-	1
## 1867	protein_coding	chr1	1307813	1307815	-	1
## 1868	protein_coding	chr1	1304086	1304143	-	1
## 1869	protein_coding	chr1	1304086	1304143	-	1
## 1870	protein_coding	chr1	1303162	1303281	-	1
## 1871	protein_coding	chr1	1303162	1303281	-	1
## 1872	protein_coding	chr1	1302922	1302975	-	1
## 1873	protein_coding	chr1	1302922	1302975	-	1
## 1874	protein_coding	chr1	1301988	1302046	-	1
## 1875	protein_coding	chr1	1301988	1302046	-	1
## 1876	protein_coding	chr1	1300509	1300692	-	1
## 1877	protein_coding	chr1	1300509	1300692	-	1
## 1878	protein_coding	chr1	1300158	1300202	-	1
## 1879	protein_coding	chr1	1300158	1300202	-	1

## 1880	protein_coding	chr1	1299973	1300068	-	1
## 1881	protein_coding	chr1	1299973	1300068	-	1
## 1882	protein_coding	chr1	1299831	1299905	-	1
## 1883	protein_coding	chr1	1299831	1299905	-	1
## 1884	protein_coding	chr1	1299345	1299356	-	1
## 1885	protein_coding	chr1	1299345	1299356	-	1
## 1886	protein_coding	chr1	1298567	1298679	-	1
## 1887	protein_coding	chr1	1298567	1298679	-	1
## 1888	protein_coding	chr1	1298370	1298421	-	1
## 1889	protein_coding	chr1	1298370	1298421	-	1
## 1890	protein_coding	chr1	1298013	1298113	-	1
## 1891	protein_coding	chr1	1298013	1298113	-	1
## 1892	protein_coding	chr1	1297822	1297933	-	1
## 1893	protein_coding	chr1	1297822	1297933	-	1
## 1894	protein_coding	chr1	1296425	1296633	-	1
## 1895	protein_coding	chr1	1296425	1296633	-	1
## 1896	protein_coding	chr1	1296211	1296280	-	1
## 1897	protein_coding	chr1	1296211	1296280	-	1
## 1898	protein_coding	chr1	1296015	1296109	-	1
## 1899	protein_coding	chr1	1296015	1296109	-	1
## 1900	protein_coding	chr1	1295736	1295938	-	1
## 1901	protein_coding	chr1	1295736	1295938	-	1
## 1902	protein_coding	chr1	1295447	1295554	-	1
## 1903	protein_coding	chr1	1295447	1295554	-	1
## 1904	protein_coding	chr1	1294718	1294816	-	1
## 1905	protein_coding	chr1	1294718	1294816	-	1
## 1906	protein_coding	chr1	1294402	1294628	-	1
## 1907	protein_coding	chr1	1294402	1294628	-	1
## 1908	protein_coding	chr1	1294090	1294199	-	1
## 1909	protein_coding	chr1	1294090	1294199	-	1
## 1910	protein_coding	chr1	1293823	1293933	-	1
## 1911	protein_coding	chr1	1293823	1293933	-	1
## 1912	protein_coding	chr1	1292391	1293708	-	1
## 1913	protein_coding	chr1	1293567	1293708	-	1
## 1914	protein_coding	chr1	1293564	1293566	-	1
## 1915	protein_coding	chr1	1307816	1307930	-	1
## 1916	protein_coding	chr1	1292391	1293566	-	1
## 1917	protein_coding	chr1	1293564	1303260	-	1
## 1918	protein_coding	chr1	1303162	1303260	-	1
## 1919	protein_coding	chr1	1303162	1303260	-	1
## 1920	protein_coding	chr1	1303258	1303260	-	1
## 1921	protein_coding	chr1	1302922	1302975	-	1
## 1922	protein_coding	chr1	1302922	1302975	-	1
## 1923	protein_coding	chr1	1301988	1302046	-	1
## 1924	protein_coding	chr1	1301988	1302046	-	1
## 1925	protein_coding	chr1	1300509	1300692	-	1
## 1926	protein_coding	chr1	1300509	1300692	-	1
## 1927	protein_coding	chr1	1300158	1300202	-	1
## 1928	protein_coding	chr1	1300158	1300202	-	1
## 1929	protein_coding	chr1	1299973	1300068	-	1
## 1930	protein_coding	chr1	1299973	1300068	-	1
## 1931	protein_coding	chr1	1299831	1299905	-	1
## 1932	protein_coding	chr1	1299831	1299905	-	1
## 1933	protein_coding	chr1	1299345	1299356	-	1

## 1934	protein_coding	chr1	1299345	1299356	-	1
## 1935	protein_coding	chr1	1298567	1298679	-	1
## 1936	protein_coding	chr1	1298567	1298679	-	1
## 1937	protein_coding	chr1	1298370	1298421	-	1
## 1938	protein_coding	chr1	1298370	1298421	-	1
## 1939	protein_coding	chr1	1298013	1298113	-	1
## 1940	protein_coding	chr1	1298013	1298113	-	1
## 1941	protein_coding	chr1	1297822	1297933	-	1
## 1942	protein_coding	chr1	1297822	1297933	-	1
## 1943	protein_coding	chr1	1296425	1296633	-	1
## 1944	protein_coding	chr1	1296425	1296633	-	1
## 1945	protein_coding	chr1	1296211	1296280	-	1
## 1946	protein_coding	chr1	1296211	1296280	-	1
## 1947	protein_coding	chr1	1296015	1296109	-	1
## 1948	protein_coding	chr1	1296015	1296109	-	1
## 1949	protein_coding	chr1	1295736	1295938	-	1
## 1950	protein_coding	chr1	1295736	1295938	-	1
## 1951	protein_coding	chr1	1295447	1295554	-	1
## 1952	protein_coding	chr1	1295447	1295554	-	1
## 1953	protein_coding	chr1	1294402	1294628	-	1
## 1954	protein_coding	chr1	1294402	1294628	-	1
## 1955	protein_coding	chr1	1294090	1294199	-	1
## 1956	protein_coding	chr1	1294090	1294199	-	1
## 1957	protein_coding	chr1	1293823	1293933	-	1
## 1958	protein_coding	chr1	1293823	1293933	-	1
## 1959	protein_coding	chr1	1293564	1293708	-	1
## 1960	protein_coding	chr1	1293567	1293708	-	1
## 1961	protein_coding	chr1	1293564	1293566	-	1
## 1962	protein_coding	chr1	1293564	1293566	-	1
## 1963	miRNA	chr1	1296110	1296170	-	1
## 1964	miRNA	chr1	1296110	1296170	-	1
## 1965	miRNA	chr1	1296110	1296170	-	1
## 1966	protein_coding	chr1	1308597	1311677	+	1
## 1967	protein_coding	chr1	1308597	1311677	+	1
## 1968	protein_coding	chr1	1308597	1308720	+	1
## 1969	protein_coding	chr1	1308644	1308720	+	1
## 1970	protein_coding	chr1	1308644	1308646	+	1
## 1971	protein_coding	chr1	1308915	1308972	+	1
## 1972	protein_coding	chr1	1308915	1308972	+	1
## 1973	protein_coding	chr1	1309086	1309273	+	1
## 1974	protein_coding	chr1	1309086	1309273	+	1
## 1975	protein_coding	chr1	1309454	1309603	+	1
## 1976	protein_coding	chr1	1309454	1309603	+	1
## 1977	protein_coding	chr1	1309681	1309851	+	1
## 1978	protein_coding	chr1	1309681	1309851	+	1
## 1979	protein_coding	chr1	1310634	1310688	+	1
## 1980	protein_coding	chr1	1310634	1310688	+	1
## 1981	protein_coding	chr1	1310909	1311071	+	1
## 1982	protein_coding	chr1	1310909	1311071	+	1
## 1983	protein_coding	chr1	1311330	1311677	+	1
## 1984	protein_coding	chr1	1311330	1311376	+	1
## 1985	protein_coding	chr1	1311377	1311379	+	1
## 1986	protein_coding	chr1	1308597	1308643	+	1
## 1987	protein_coding	chr1	1311377	1311677	+	1

## 1988	protein_coding	chr1	1311585	1324691	-	1
## 1989	protein_coding	chr1	1311585	1324687	-	1
## 1990	protein_coding	chr1	1324581	1324687	-	1
## 1991	protein_coding	chr1	1322892	1323287	-	1
## 1992	protein_coding	chr1	1321908	1321984	-	1
## 1993	protein_coding	chr1	1321908	1321953	-	1
## 1994	protein_coding	chr1	1321951	1321953	-	1
## 1995	protein_coding	chr1	1320996	1321093	-	1
## 1996	protein_coding	chr1	1320996	1321093	-	1
## 1997	protein_coding	chr1	1320456	1320529	-	1
## 1998	protein_coding	chr1	1320456	1320529	-	1
## 1999	protein_coding	chr1	1319296	1319524	-	1
## 2000	protein_coding	chr1	1319296	1319524	-	1
## 2001	protein_coding	chr1	1315520	1315618	-	1
## 2002	protein_coding	chr1	1315520	1315618	-	1
## 2003	protein_coding	chr1	1315404	1315438	-	1
## 2004	protein_coding	chr1	1315404	1315438	-	1
## 2005	protein_coding	chr1	1314824	1314962	-	1
## 2006	protein_coding	chr1	1314824	1314962	-	1
## 2007	protein_coding	chr1	1314301	1314365	-	1
## 2008	protein_coding	chr1	1314301	1314365	-	1
## 2009	protein_coding	chr1	1313732	1313921	-	1
## 2010	protein_coding	chr1	1313732	1313921	-	1
## 2011	protein_coding	chr1	1313509	1313592	-	1
## 2012	protein_coding	chr1	1313509	1313592	-	1
## 2013	protein_coding	chr1	1313035	1313124	-	1
## 2014	protein_coding	chr1	1313035	1313124	-	1
## 2015	protein_coding	chr1	1312787	1312949	-	1
## 2016	protein_coding	chr1	1312787	1312949	-	1
## 2017	protein_coding	chr1	1312593	1312700	-	1
## 2018	protein_coding	chr1	1312593	1312700	-	1
## 2019	protein_coding	chr1	1312440	1312501	-	1
## 2020	protein_coding	chr1	1312440	1312501	-	1
## 2021	protein_coding	chr1	1312226	1312368	-	1
## 2022	protein_coding	chr1	1312226	1312368	-	1
## 2023	protein_coding	chr1	1312018	1312147	-	1
## 2024	protein_coding	chr1	1312018	1312147	-	1
## 2025	protein_coding	chr1	1311585	1311924	-	1
## 2026	protein_coding	chr1	1311862	1311924	-	1
## 2027	protein_coding	chr1	1311859	1311861	-	1
## 2028	protein_coding	chr1	1324581	1324687	-	1
## 2029	protein_coding	chr1	1322892	1323287	-	1
## 2030	protein_coding	chr1	1321954	1321984	-	1
## 2031	protein_coding	chr1	1311585	1311861	-	1
## 2032	protein_coding	chr1	1311585	1324687	-	1
## 2033	protein_coding	chr1	1324581	1324687	-	1
## 2034	protein_coding	chr1	1323181	1323287	-	1
## 2035	protein_coding	chr1	1320996	1321093	-	1
## 2036	protein_coding	chr1	1320996	1321034	-	1
## 2037	protein_coding	chr1	1321032	1321034	-	1
## 2038	protein_coding	chr1	1320456	1320529	-	1
## 2039	protein_coding	chr1	1320456	1320529	-	1
## 2040	protein_coding	chr1	1319296	1319524	-	1
## 2041	protein_coding	chr1	1319296	1319524	-	1

## 2042	protein_coding	chr1	1315520	1315618	-	1
## 2043	protein_coding	chr1	1315520	1315618	-	1
## 2044	protein_coding	chr1	1315404	1315438	-	1
## 2045	protein_coding	chr1	1315404	1315438	-	1
## 2046	protein_coding	chr1	1314824	1314962	-	1
## 2047	protein_coding	chr1	1314824	1314962	-	1
## 2048	protein_coding	chr1	1314301	1314365	-	1
## 2049	protein_coding	chr1	1314301	1314365	-	1
## 2050	protein_coding	chr1	1313732	1313921	-	1
## 2051	protein_coding	chr1	1313732	1313921	-	1
## 2052	protein_coding	chr1	1313509	1313592	-	1
## 2053	protein_coding	chr1	1313509	1313592	-	1
## 2054	protein_coding	chr1	1313035	1313124	-	1
## 2055	protein_coding	chr1	1313035	1313124	-	1
## 2056	protein_coding	chr1	1312787	1312949	-	1
## 2057	protein_coding	chr1	1312787	1312949	-	1
## 2058	protein_coding	chr1	1312593	1312700	-	1
## 2059	protein_coding	chr1	1312593	1312700	-	1
## 2060	protein_coding	chr1	1312440	1312501	-	1
## 2061	protein_coding	chr1	1312440	1312501	-	1
## 2062	protein_coding	chr1	1312226	1312368	-	1
## 2063	protein_coding	chr1	1312226	1312368	-	1
## 2064	protein_coding	chr1	1312018	1312147	-	1
## 2065	protein_coding	chr1	1312018	1312147	-	1
## 2066	protein_coding	chr1	1311585	1311924	-	1
## 2067	protein_coding	chr1	1311862	1311924	-	1
## 2068	protein_coding	chr1	1311859	1311861	-	1
## 2069	protein_coding	chr1	1324581	1324687	-	1
## 2070	protein_coding	chr1	1323181	1323287	-	1
## 2071	protein_coding	chr1	1321035	1321093	-	1
## 2072	protein_coding	chr1	1311585	1311861	-	1
## 2073	protein_coding	chr1	1311585	1324687	-	1
## 2074	protein_coding	chr1	1324581	1324687	-	1
## 2075	protein_coding	chr1	1324581	1324608	-	1
## 2076	protein_coding	chr1	1324606	1324608	-	1
## 2077	protein_coding	chr1	1323177	1323287	-	1
## 2078	protein_coding	chr1	1323177	1323287	-	1
## 2079	protein_coding	chr1	1315520	1315614	-	1
## 2080	protein_coding	chr1	1315520	1315614	-	1
## 2081	protein_coding	chr1	1315404	1315438	-	1
## 2082	protein_coding	chr1	1315404	1315438	-	1
## 2083	protein_coding	chr1	1314824	1314962	-	1
## 2084	protein_coding	chr1	1314824	1314962	-	1
## 2085	protein_coding	chr1	1314301	1314365	-	1
## 2086	protein_coding	chr1	1314301	1314365	-	1
## 2087	protein_coding	chr1	1313732	1313921	-	1
## 2088	protein_coding	chr1	1313732	1313921	-	1
## 2089	protein_coding	chr1	1313509	1313592	-	1
## 2090	protein_coding	chr1	1313509	1313592	-	1
## 2091	protein_coding	chr1	1313035	1313124	-	1
## 2092	protein_coding	chr1	1313035	1313124	-	1
## 2093	protein_coding	chr1	1312787	1312949	-	1
## 2094	protein_coding	chr1	1312787	1312949	-	1
## 2095	protein_coding	chr1	1312593	1312700	-	1

## 2096	protein_coding	chr1	1312593	1312700	-	1
## 2097	protein_coding	chr1	1312440	1312501	-	1
## 2098	protein_coding	chr1	1312440	1312501	-	1
## 2099	protein_coding	chr1	1312226	1312368	-	1
## 2100	protein_coding	chr1	1312226	1312368	-	1
## 2101	protein_coding	chr1	1312018	1312147	-	1
## 2102	protein_coding	chr1	1312018	1312147	-	1
## 2103	protein_coding	chr1	1311585	1311924	-	1
## 2104	protein_coding	chr1	1311862	1311924	-	1
## 2105	protein_coding	chr1	1311859	1311861	-	1
## 2106	protein_coding	chr1	1324609	1324687	-	1
## 2107	protein_coding	chr1	1311585	1311861	-	1
## 2108	protein_coding	chr1	1311585	1324687	-	1
## 2109	protein_coding	chr1	1324581	1324687	-	1
## 2110	protein_coding	chr1	1324581	1324608	-	1
## 2111	protein_coding	chr1	1324606	1324608	-	1
## 2112	protein_coding	chr1	1320996	1321093	-	1
## 2113	protein_coding	chr1	1320996	1321093	-	1
## 2114	protein_coding	chr1	1320456	1320529	-	1
## 2115	protein_coding	chr1	1320456	1320529	-	1
## 2116	protein_coding	chr1	1319336	1319524	-	1
## 2117	protein_coding	chr1	1319336	1319524	-	1
## 2118	protein_coding	chr1	1314301	1314318	-	1
## 2119	protein_coding	chr1	1314301	1314318	-	1
## 2120	protein_coding	chr1	1313732	1313921	-	1
## 2121	protein_coding	chr1	1313732	1313921	-	1
## 2122	protein_coding	chr1	1313509	1313592	-	1
## 2123	protein_coding	chr1	1313509	1313592	-	1
## 2124	protein_coding	chr1	1313035	1313124	-	1
## 2125	protein_coding	chr1	1313035	1313124	-	1
## 2126	protein_coding	chr1	1312878	1312949	-	1
## 2127	protein_coding	chr1	1312878	1312949	-	1
## 2128	protein_coding	chr1	1312226	1312356	-	1
## 2129	protein_coding	chr1	1312226	1312356	-	1
## 2130	protein_coding	chr1	1312018	1312147	-	1
## 2131	protein_coding	chr1	1312018	1312147	-	1
## 2132	protein_coding	chr1	1311585	1311924	-	1
## 2133	protein_coding	chr1	1311862	1311924	-	1
## 2134	protein_coding	chr1	1311859	1311861	-	1
## 2135	protein_coding	chr1	1324609	1324687	-	1
## 2136	protein_coding	chr1	1311585	1311861	-	1
## 2137	protein_coding	chr1	1311597	1324691	-	1
## 2138	protein_coding	chr1	1324581	1324691	-	1
## 2139	protein_coding	chr1	1324581	1324608	-	1
## 2140	protein_coding	chr1	1324606	1324608	-	1
## 2141	protein_coding	chr1	1320996	1321093	-	1
## 2142	protein_coding	chr1	1320996	1321093	-	1
## 2143	protein_coding	chr1	1320456	1320529	-	1
## 2144	protein_coding	chr1	1320456	1320529	-	1
## 2145	protein_coding	chr1	1319296	1319524	-	1
## 2146	protein_coding	chr1	1319296	1319524	-	1
## 2147	protein_coding	chr1	1315520	1315618	-	1
## 2148	protein_coding	chr1	1315520	1315618	-	1
## 2149	protein_coding	chr1	1315404	1315438	-	1

## 2150	protein_coding	chr1	1315404	1315438	-	1
## 2151	protein_coding	chr1	1314824	1314962	-	1
## 2152	protein_coding	chr1	1314824	1314962	-	1
## 2153	protein_coding	chr1	1314301	1314365	-	1
## 2154	protein_coding	chr1	1314301	1314365	-	1
## 2155	protein_coding	chr1	1313732	1313921	-	1
## 2156	protein_coding	chr1	1313732	1313921	-	1
## 2157	protein_coding	chr1	1313509	1313592	-	1
## 2158	protein_coding	chr1	1313509	1313592	-	1
## 2159	protein_coding	chr1	1313035	1313124	-	1
## 2160	protein_coding	chr1	1313035	1313124	-	1
## 2161	protein_coding	chr1	1312787	1312949	-	1
## 2162	protein_coding	chr1	1312787	1312949	-	1
## 2163	protein_coding	chr1	1312593	1312700	-	1
## 2164	protein_coding	chr1	1312593	1312700	-	1
## 2165	protein_coding	chr1	1312440	1312501	-	1
## 2166	protein_coding	chr1	1312440	1312501	-	1
## 2167	protein_coding	chr1	1312226	1312368	-	1
## 2168	protein_coding	chr1	1312226	1312368	-	1
## 2169	protein_coding	chr1	1312018	1312147	-	1
## 2170	protein_coding	chr1	1312018	1312147	-	1
## 2171	protein_coding	chr1	1311597	1311924	-	1
## 2172	protein_coding	chr1	1311862	1311924	-	1
## 2173	protein_coding	chr1	1311859	1311861	-	1
## 2174	protein_coding	chr1	1324609	1324691	-	1
## 2175	protein_coding	chr1	1311597	1311861	-	1
## 2176	protein_coding	chr1	1311601	1324673	-	1
## 2177	protein_coding	chr1	1324581	1324673	-	1
## 2178	protein_coding	chr1	1324581	1324608	-	1
## 2179	protein_coding	chr1	1324606	1324608	-	1
## 2180	protein_coding	chr1	1323181	1323287	-	1
## 2181	protein_coding	chr1	1323181	1323287	-	1
## 2182	protein_coding	chr1	1315520	1315618	-	1
## 2183	protein_coding	chr1	1315520	1315618	-	1
## 2184	protein_coding	chr1	1315404	1315438	-	1
## 2185	protein_coding	chr1	1315404	1315438	-	1
## 2186	protein_coding	chr1	1314824	1314962	-	1
## 2187	protein_coding	chr1	1314824	1314962	-	1
## 2188	protein_coding	chr1	1314301	1314365	-	1
## 2189	protein_coding	chr1	1314301	1314365	-	1
## 2190	protein_coding	chr1	1313732	1313921	-	1
## 2191	protein_coding	chr1	1313732	1313921	-	1
## 2192	protein_coding	chr1	1313509	1313592	-	1
## 2193	protein_coding	chr1	1313509	1313592	-	1
## 2194	protein_coding	chr1	1313035	1313124	-	1
## 2195	protein_coding	chr1	1313035	1313124	-	1
## 2196	protein_coding	chr1	1312787	1312949	-	1
## 2197	protein_coding	chr1	1312787	1312949	-	1
## 2198	protein_coding	chr1	1312593	1312700	-	1
## 2199	protein_coding	chr1	1312593	1312700	-	1
## 2200	protein_coding	chr1	1312440	1312501	-	1
## 2201	protein_coding	chr1	1312440	1312501	-	1
## 2202	protein_coding	chr1	1312226	1312368	-	1
## 2203	protein_coding	chr1	1312226	1312368	-	1

## 2204	protein_coding	chr1	1312018	1312147	-	1
## 2205	protein_coding	chr1	1312018	1312147	-	1
## 2206	protein_coding	chr1	1311601	1311924	-	1
## 2207	protein_coding	chr1	1311862	1311924	-	1
## 2208	protein_coding	chr1	1311859	1311861	-	1
## 2209	protein_coding	chr1	1324609	1324673	-	1
## 2210	protein_coding	chr1	1311601	1311861	-	1
## 2211	protein_coding	chr1	1311606	1324637	-	1
## 2212	protein_coding	chr1	1324581	1324637	-	1
## 2213	protein_coding	chr1	1315520	1315618	-	1
## 2214	protein_coding	chr1	1315404	1315438	-	1
## 2215	protein_coding	chr1	1314824	1314962	-	1
## 2216	protein_coding	chr1	1314301	1314365	-	1
## 2217	protein_coding	chr1	1313732	1314105	-	1
## 2218	protein_coding	chr1	1313732	1313914	-	1
## 2219	protein_coding	chr1	1313912	1313914	-	1
## 2220	protein_coding	chr1	1313509	1313592	-	1
## 2221	protein_coding	chr1	1313509	1313592	-	1
## 2222	protein_coding	chr1	1313035	1313124	-	1
## 2223	protein_coding	chr1	1313035	1313124	-	1
## 2224	protein_coding	chr1	1312787	1312949	-	1
## 2225	protein_coding	chr1	1312787	1312949	-	1
## 2226	protein_coding	chr1	1312593	1312700	-	1
## 2227	protein_coding	chr1	1312593	1312700	-	1
## 2228	protein_coding	chr1	1312440	1312501	-	1
## 2229	protein_coding	chr1	1312440	1312501	-	1
## 2230	protein_coding	chr1	1312226	1312368	-	1
## 2231	protein_coding	chr1	1312226	1312368	-	1
## 2232	protein_coding	chr1	1312018	1312147	-	1
## 2233	protein_coding	chr1	1312018	1312147	-	1
## 2234	protein_coding	chr1	1311606	1311924	-	1
## 2235	protein_coding	chr1	1311862	1311924	-	1
## 2236	protein_coding	chr1	1311859	1311861	-	1
## 2237	protein_coding	chr1	1324581	1324637	-	1
## 2238	protein_coding	chr1	1315520	1315618	-	1
## 2239	protein_coding	chr1	1315404	1315438	-	1
## 2240	protein_coding	chr1	1314824	1314962	-	1
## 2241	protein_coding	chr1	1314301	1314365	-	1
## 2242	protein_coding	chr1	1313915	1314105	-	1
## 2243	protein_coding	chr1	1311606	1311861	-	1
## 2244	protein_coding	chr1	1311606	1324653	-	1
## 2245	protein_coding	chr1	1324581	1324653	-	1
## 2246	protein_coding	chr1	1324581	1324608	-	1
## 2247	protein_coding	chr1	1324606	1324608	-	1
## 2248	protein_coding	chr1	1320996	1321093	-	1
## 2249	protein_coding	chr1	1320996	1321093	-	1
## 2250	protein_coding	chr1	1315520	1315618	-	1
## 2251	protein_coding	chr1	1315520	1315618	-	1
## 2252	protein_coding	chr1	1315404	1315438	-	1
## 2253	protein_coding	chr1	1315404	1315438	-	1
## 2254	protein_coding	chr1	1314824	1314962	-	1
## 2255	protein_coding	chr1	1314824	1314962	-	1
## 2256	protein_coding	chr1	1314301	1314365	-	1
## 2257	protein_coding	chr1	1314301	1314365	-	1

## 2258	protein_coding	chr1	1313732	1313921	-	1
## 2259	protein_coding	chr1	1313732	1313921	-	1
## 2260	protein_coding	chr1	1313509	1313592	-	1
## 2261	protein_coding	chr1	1313509	1313592	-	1
## 2262	protein_coding	chr1	1313035	1313124	-	1
## 2263	protein_coding	chr1	1313035	1313124	-	1
## 2264	protein_coding	chr1	1312787	1312949	-	1
## 2265	protein_coding	chr1	1312787	1312949	-	1
## 2266	protein_coding	chr1	1312593	1312700	-	1
## 2267	protein_coding	chr1	1312593	1312700	-	1
## 2268	protein_coding	chr1	1312440	1312501	-	1
## 2269	protein_coding	chr1	1312440	1312501	-	1
## 2270	protein_coding	chr1	1312226	1312368	-	1
## 2271	protein_coding	chr1	1312226	1312368	-	1
## 2272	protein_coding	chr1	1312018	1312147	-	1
## 2273	protein_coding	chr1	1312018	1312147	-	1
## 2274	protein_coding	chr1	1311606	1311924	-	1
## 2275	protein_coding	chr1	1311862	1311924	-	1
## 2276	protein_coding	chr1	1311859	1311861	-	1
## 2277	protein_coding	chr1	1324609	1324653	-	1
## 2278	protein_coding	chr1	1311606	1311861	-	1
## 2279	protein_coding	chr1	1311819	1324670	-	1
## 2280	protein_coding	chr1	1324581	1324670	-	1
## 2281	protein_coding	chr1	1324581	1324608	-	1
## 2282	protein_coding	chr1	1324606	1324608	-	1
## 2283	protein_coding	chr1	1320996	1321093	-	1
## 2284	protein_coding	chr1	1320996	1321093	-	1
## 2285	protein_coding	chr1	1320456	1320529	-	1
## 2286	protein_coding	chr1	1320456	1320529	-	1
## 2287	protein_coding	chr1	1319296	1319524	-	1
## 2288	protein_coding	chr1	1319296	1319524	-	1
## 2289	protein_coding	chr1	1315520	1315552	-	1
## 2290	protein_coding	chr1	1315520	1315552	-	1
## 2291	protein_coding	chr1	1315404	1315438	-	1
## 2292	protein_coding	chr1	1315404	1315438	-	1
## 2293	protein_coding	chr1	1314824	1314962	-	1
## 2294	protein_coding	chr1	1314824	1314962	-	1
## 2295	protein_coding	chr1	1314301	1314365	-	1
## 2296	protein_coding	chr1	1314301	1314365	-	1
## 2297	protein_coding	chr1	1313732	1313921	-	1
## 2298	protein_coding	chr1	1313732	1313921	-	1
## 2299	protein_coding	chr1	1313509	1313592	-	1
## 2300	protein_coding	chr1	1313509	1313592	-	1
## 2301	protein_coding	chr1	1313035	1313124	-	1
## 2302	protein_coding	chr1	1313035	1313124	-	1
## 2303	protein_coding	chr1	1312787	1312949	-	1
## 2304	protein_coding	chr1	1312787	1312949	-	1
## 2305	protein_coding	chr1	1312593	1312700	-	1
## 2306	protein_coding	chr1	1312593	1312700	-	1
## 2307	protein_coding	chr1	1312440	1312501	-	1
## 2308	protein_coding	chr1	1312440	1312501	-	1
## 2309	protein_coding	chr1	1312226	1312368	-	1
## 2310	protein_coding	chr1	1312226	1312368	-	1
## 2311	protein_coding	chr1	1312018	1312147	-	1

## 2312	protein_coding	chr1	1312018	1312147	-	1
## 2313	protein_coding	chr1	1311819	1311924	-	1
## 2314	protein_coding	chr1	1311862	1311924	-	1
## 2315	protein_coding	chr1	1311859	1311861	-	1
## 2316	protein_coding	chr1	1324609	1324670	-	1
## 2317	protein_coding	chr1	1311819	1311861	-	1
## 2318	protein_coding	chr1	1318679	1324666	-	1
## 2319	protein_coding	chr1	1324581	1324666	-	1
## 2320	protein_coding	chr1	1324581	1324608	-	1
## 2321	protein_coding	chr1	1324606	1324608	-	1
## 2322	protein_coding	chr1	1320996	1321093	-	1
## 2323	protein_coding	chr1	1320996	1321093	-	1
## 2324	protein_coding	chr1	1320456	1320529	-	1
## 2325	protein_coding	chr1	1320456	1320529	-	1
## 2326	protein_coding	chr1	1318679	1319524	-	1
## 2327	protein_coding	chr1	1318858	1319524	-	1
## 2328	protein_coding	chr1	1318855	1318857	-	1
## 2329	protein_coding	chr1	1324609	1324666	-	1
## 2330	protein_coding	chr1	1318679	1318857	-	1
## 2331	miRNA	chr1	1312502	1312566	-	1
## 2332	miRNA	chr1	1312502	1312566	-	1
## 2333	miRNA	chr1	1312502	1312566	-	1
## 2334	lncRNA	chr1	1317581	1318689	-	0
## 2335	lncRNA	chr1	1317581	1318689	-	0
## 2336	lncRNA	chr1	1318623	1318689	-	0
## 2337	lncRNA	chr1	1317581	1317899	-	0
## 2338	protein_coding	chr1	1324756	1328896	+	1
## 2339	protein_coding	chr1	1324802	1328896	+	1
## 2340	protein_coding	chr1	1324802	1325102	+	1
## 2341	protein_coding	chr1	1326836	1327032	+	1
## 2342	protein_coding	chr1	1326911	1327032	+	1
## 2343	protein_coding	chr1	1326911	1326913	+	1
## 2344	protein_coding	chr1	1327241	1328896	+	1
## 2345	protein_coding	chr1	1327241	1327760	+	1
## 2346	protein_coding	chr1	1327761	1327763	+	1
## 2347	protein_coding	chr1	1324802	1325102	+	1
## 2348	protein_coding	chr1	1326836	1326910	+	1
## 2349	protein_coding	chr1	1327761	1328896	+	1
## 2350	protein_coding	chr1	1331280	1335314	+	1
## 2351	protein_coding	chr1	1331280	1335314	+	1
## 2352	protein_coding	chr1	1331280	1331536	+	1
## 2353	protein_coding	chr1	1331346	1331536	+	1
## 2354	protein_coding	chr1	1331346	1331348	+	1
## 2355	protein_coding	chr1	1331638	1331938	+	1
## 2356	protein_coding	chr1	1331638	1331938	+	1
## 2357	protein_coding	chr1	1332024	1332806	+	1
## 2358	protein_coding	chr1	1332024	1332806	+	1
## 2359	protein_coding	chr1	1332921	1333124	+	1
## 2360	protein_coding	chr1	1332921	1333124	+	1
## 2361	protein_coding	chr1	1333259	1333379	+	1
## 2362	protein_coding	chr1	1333259	1333379	+	1
## 2363	protein_coding	chr1	1333506	1335314	+	1
## 2364	protein_coding	chr1	1333506	1334461	+	1
## 2365	protein_coding	chr1	1334462	1334464	+	1

## 2366	protein_coding	chr1	1331280	1331345	+	1
## 2367	protein_coding	chr1	1334462	1335314	+	1
## 2368	protein_coding	chr1	1335276	1349418	-	1
## 2369	protein_coding	chr1	1335276	1349112	-	1
## 2370	protein_coding	chr1	1348896	1349112	-	1
## 2371	protein_coding	chr1	1348896	1349065	-	1
## 2372	protein_coding	chr1	1349063	1349065	-	1
## 2373	protein_coding	chr1	1342689	1342758	-	1
## 2374	protein_coding	chr1	1342689	1342758	-	1
## 2375	protein_coding	chr1	1342363	1342484	-	1
## 2376	protein_coding	chr1	1342363	1342484	-	1
## 2377	protein_coding	chr1	1342053	1342156	-	1
## 2378	protein_coding	chr1	1342053	1342156	-	1
## 2379	protein_coding	chr1	1341667	1341805	-	1
## 2380	protein_coding	chr1	1341667	1341805	-	1
## 2381	protein_coding	chr1	1340410	1340503	-	1
## 2382	protein_coding	chr1	1340410	1340503	-	1
## 2383	protein_coding	chr1	1340247	1340316	-	1
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## 2385	protein_coding	chr1	1340038	1340177	-	1
## 2386	protein_coding	chr1	1340038	1340177	-	1
## 2387	protein_coding	chr1	1339736	1339812	-	1
## 2388	protein_coding	chr1	1339736	1339812	-	1
## 2389	protein_coding	chr1	1339582	1339649	-	1
## 2390	protein_coding	chr1	1339582	1339649	-	1
## 2391	protein_coding	chr1	1339362	1339439	-	1
## 2392	protein_coding	chr1	1339362	1339439	-	1
## 2393	protein_coding	chr1	1338522	1338653	-	1
## 2394	protein_coding	chr1	1338522	1338653	-	1
## 2395	protein_coding	chr1	1338269	1338436	-	1
## 2396	protein_coding	chr1	1338269	1338436	-	1
## 2397	protein_coding	chr1	1337977	1338183	-	1
## 2398	protein_coding	chr1	1337977	1338183	-	1
## 2399	protein_coding	chr1	1335276	1336515	-	1
## 2400	protein_coding	chr1	1336145	1336515	-	1
## 2401	protein_coding	chr1	1336142	1336144	-	1
## 2402	protein_coding	chr1	1349066	1349112	-	1
## 2403	protein_coding	chr1	1335276	1336144	-	1
## 2404	protein_coding	chr1	1335278	1349418	-	1
## 2405	protein_coding	chr1	1348896	1349418	-	1
## 2406	protein_coding	chr1	1348896	1349065	-	1
## 2407	protein_coding	chr1	1349063	1349065	-	1
## 2408	protein_coding	chr1	1342689	1342758	-	1
## 2409	protein_coding	chr1	1342689	1342758	-	1
## 2410	protein_coding	chr1	1342363	1342484	-	1
## 2411	protein_coding	chr1	1342363	1342484	-	1
## 2412	protein_coding	chr1	1342053	1342156	-	1
## 2413	protein_coding	chr1	1342053	1342156	-	1
## 2414	protein_coding	chr1	1341667	1341805	-	1
## 2415	protein_coding	chr1	1341667	1341805	-	1
## 2416	protein_coding	chr1	1340410	1340503	-	1
## 2417	protein_coding	chr1	1340410	1340503	-	1
## 2418	protein_coding	chr1	1340247	1340316	-	1
## 2419	protein_coding	chr1	1340247	1340316	-	1

## 2420	protein_coding	chr1	1340038	1340177	-	1
## 2421	protein_coding	chr1	1340038	1340177	-	1
## 2422	protein_coding	chr1	1339736	1339812	-	1
## 2423	protein_coding	chr1	1339736	1339812	-	1
## 2424	protein_coding	chr1	1339582	1339649	-	1
## 2425	protein_coding	chr1	1339582	1339649	-	1
## 2426	protein_coding	chr1	1339287	1339439	-	1
## 2427	protein_coding	chr1	1339287	1339439	-	1
## 2428	protein_coding	chr1	1338522	1338653	-	1
## 2429	protein_coding	chr1	1338522	1338653	-	1
## 2430	protein_coding	chr1	1338269	1338436	-	1
## 2431	protein_coding	chr1	1338269	1338436	-	1
## 2432	protein_coding	chr1	1337977	1338183	-	1
## 2433	protein_coding	chr1	1337977	1338183	-	1
## 2434	protein_coding	chr1	1335278	1336515	-	1
## 2435	protein_coding	chr1	1336145	1336515	-	1
## 2436	protein_coding	chr1	1336142	1336144	-	1
## 2437	protein_coding	chr1	1349066	1349418	-	1
## 2438	protein_coding	chr1	1335278	1336144	-	1
## 2439	protein_coding	chr1	1335279	1349135	-	1
## 2440	protein_coding	chr1	1348896	1349135	-	1
## 2441	protein_coding	chr1	1348896	1349065	-	1
## 2442	protein_coding	chr1	1349063	1349065	-	1
## 2443	protein_coding	chr1	1342689	1342758	-	1
## 2444	protein_coding	chr1	1342689	1342758	-	1
## 2445	protein_coding	chr1	1342363	1342484	-	1
## 2446	protein_coding	chr1	1342363	1342484	-	1
## 2447	protein_coding	chr1	1342053	1342156	-	1
## 2448	protein_coding	chr1	1342053	1342156	-	1
## 2449	protein_coding	chr1	1341667	1341805	-	1
## 2450	protein_coding	chr1	1341667	1341805	-	1
## 2451	protein_coding	chr1	1340459	1340503	-	1
## 2452	protein_coding	chr1	1340459	1340503	-	1
## 2453	protein_coding	chr1	1338269	1338372	-	1
## 2454	protein_coding	chr1	1338269	1338372	-	1
## 2455	protein_coding	chr1	1337977	1338183	-	1
## 2456	protein_coding	chr1	1337977	1338183	-	1
## 2457	protein_coding	chr1	1335279	1336515	-	1
## 2458	protein_coding	chr1	1336145	1336515	-	1
## 2459	protein_coding	chr1	1336142	1336144	-	1
## 2460	protein_coding	chr1	1349066	1349135	-	1
## 2461	protein_coding	chr1	1335279	1336144	-	1
## 2462	miRNA	chr1	1339650	1339708	-	1
## 2463	miRNA	chr1	1339650	1339708	-	1
## 2464	miRNA	chr1	1339650	1339708	-	1
## 2465	protein_coding	chr1	1352689	1361777	-	1
## 2466	protein_coding	chr1	1352689	1358794	-	1
## 2467	protein_coding	chr1	1358456	1358794	-	1
## 2468	protein_coding	chr1	1358456	1358504	-	1
## 2469	protein_coding	chr1	1358502	1358504	-	1
## 2470	protein_coding	chr1	1356681	1356704	-	1
## 2471	protein_coding	chr1	1356681	1356704	-	1
## 2472	protein_coding	chr1	1355244	1355345	-	1
## 2473	protein_coding	chr1	1355244	1355345	-	1

## 2474	protein_coding	chr1	1354682	1355152	-	1
## 2475	protein_coding	chr1	1354682	1355152	-	1
## 2476	protein_coding	chr1	1354354	1354509	-	1
## 2477	protein_coding	chr1	1354354	1354509	-	1
## 2478	protein_coding	chr1	1354193	1354232	-	1
## 2479	protein_coding	chr1	1354193	1354232	-	1
## 2480	protein_coding	chr1	1354030	1354106	-	1
## 2481	protein_coding	chr1	1354030	1354106	-	1
## 2482	protein_coding	chr1	1353848	1353928	-	1
## 2483	protein_coding	chr1	1353848	1353928	-	1
## 2484	protein_coding	chr1	1352689	1353629	-	1
## 2485	protein_coding	chr1	1353607	1353629	-	1
## 2486	protein_coding	chr1	1353604	1353606	-	1
## 2487	protein_coding	chr1	1358505	1358794	-	1
## 2488	protein_coding	chr1	1352689	1353606	-	1
## 2489	protein_coding	chr1	1352691	1358535	-	1
## 2490	protein_coding	chr1	1358456	1358535	-	1
## 2491	protein_coding	chr1	1358456	1358504	-	1
## 2492	protein_coding	chr1	1358502	1358504	-	1
## 2493	protein_coding	chr1	1356681	1356704	-	1
## 2494	protein_coding	chr1	1356681	1356704	-	1
## 2495	protein_coding	chr1	1355450	1355752	-	1
## 2496	protein_coding	chr1	1355450	1355752	-	1
## 2497	protein_coding	chr1	1355244	1355345	-	1
## 2498	protein_coding	chr1	1355244	1355345	-	1
## 2499	protein_coding	chr1	1354682	1355152	-	1
## 2500	protein_coding	chr1	1354682	1355152	-	1
## 2501	protein_coding	chr1	1354354	1354509	-	1
## 2502	protein_coding	chr1	1354354	1354509	-	1
## 2503	protein_coding	chr1	1354193	1354232	-	1
## 2504	protein_coding	chr1	1354193	1354232	-	1
## 2505	protein_coding	chr1	1354030	1354106	-	1
## 2506	protein_coding	chr1	1354030	1354106	-	1
## 2507	protein_coding	chr1	1353848	1353928	-	1
## 2508	protein_coding	chr1	1353848	1353928	-	1
## 2509	protein_coding	chr1	1352691	1353629	-	1
## 2510	protein_coding	chr1	1353607	1353629	-	1
## 2511	protein_coding	chr1	1353604	1353606	-	1
## 2512	protein_coding	chr1	1358505	1358535	-	1
## 2513	protein_coding	chr1	1352691	1353606	-	1
## 2514	protein_coding	chr1	1352692	1358543	-	1
## 2515	protein_coding	chr1	1358456	1358543	-	1
## 2516	protein_coding	chr1	1358456	1358504	-	1
## 2517	protein_coding	chr1	1358502	1358504	-	1
## 2518	protein_coding	chr1	1356681	1356704	-	1
## 2519	protein_coding	chr1	1356681	1356704	-	1
## 2520	protein_coding	chr1	1355450	1355752	-	1
## 2521	protein_coding	chr1	1355450	1355752	-	1
## 2522	protein_coding	chr1	1355244	1355345	-	1
## 2523	protein_coding	chr1	1355244	1355345	-	1
## 2524	protein_coding	chr1	1354682	1355152	-	1
## 2525	protein_coding	chr1	1354682	1355152	-	1
## 2526	protein_coding	chr1	1354354	1354509	-	1
## 2527	protein_coding	chr1	1354354	1354509	-	1

## 2528	protein_coding	chr1	1354193	1354232	-	1
## 2529	protein_coding	chr1	1354193	1354232	-	1
## 2530	protein_coding	chr1	1354030	1354106	-	1
## 2531	protein_coding	chr1	1354030	1354106	-	1
## 2532	protein_coding	chr1	1353848	1353946	-	1
## 2533	protein_coding	chr1	1353848	1353946	-	1
## 2534	protein_coding	chr1	1352692	1353332	-	1
## 2535	protein_coding	chr1	1353304	1353332	-	1
## 2536	protein_coding	chr1	1353301	1353303	-	1
## 2537	protein_coding	chr1	1358505	1358543	-	1
## 2538	protein_coding	chr1	1352692	1353303	-	1
## 2539	protein_coding	chr1	1352692	1361777	-	1
## 2540	protein_coding	chr1	1361242	1361777	-	1
## 2541	protein_coding	chr1	1361242	1361263	-	1
## 2542	protein_coding	chr1	1361261	1361263	-	1
## 2543	protein_coding	chr1	1356681	1356704	-	1
## 2544	protein_coding	chr1	1356681	1356704	-	1
## 2545	protein_coding	chr1	1355450	1355752	-	1
## 2546	protein_coding	chr1	1355450	1355752	-	1
## 2547	protein_coding	chr1	1355244	1355345	-	1
## 2548	protein_coding	chr1	1355244	1355345	-	1
## 2549	protein_coding	chr1	1354682	1355152	-	1
## 2550	protein_coding	chr1	1354682	1355152	-	1
## 2551	protein_coding	chr1	1354354	1354509	-	1
## 2552	protein_coding	chr1	1354354	1354509	-	1
## 2553	protein_coding	chr1	1354193	1354232	-	1
## 2554	protein_coding	chr1	1354193	1354232	-	1
## 2555	protein_coding	chr1	1354030	1354106	-	1
## 2556	protein_coding	chr1	1354030	1354106	-	1
## 2557	protein_coding	chr1	1353848	1353928	-	1
## 2558	protein_coding	chr1	1353848	1353928	-	1
## 2559	protein_coding	chr1	1352692	1353629	-	1
## 2560	protein_coding	chr1	1353607	1353629	-	1
## 2561	protein_coding	chr1	1353604	1353606	-	1
## 2562	protein_coding	chr1	1361264	1361777	-	1
## 2563	protein_coding	chr1	1352692	1353606	-	1
## 2564	protein_coding	chr1	1373730	1375495	-	1
## 2565	protein_coding	chr1	1373730	1375157	-	1
## 2566	protein_coding	chr1	1374705	1375157	-	1
## 2567	protein_coding	chr1	1374705	1374756	-	1
## 2568	protein_coding	chr1	1374754	1374756	-	1
## 2569	protein_coding	chr1	1374000	1374445	-	1
## 2570	protein_coding	chr1	1374000	1374445	-	1
## 2571	protein_coding	chr1	1373730	1373902	-	1
## 2572	protein_coding	chr1	1373804	1373902	-	1
## 2573	protein_coding	chr1	1373801	1373803	-	1
## 2574	protein_coding	chr1	1374757	1375157	-	1
## 2575	protein_coding	chr1	1373730	1373803	-	1
## 2576	protein_coding	chr1	1373730	1375495	-	1
## 2577	protein_coding	chr1	1375154	1375495	-	1
## 2578	protein_coding	chr1	1374705	1374790	-	1
## 2579	protein_coding	chr1	1374705	1374756	-	1
## 2580	protein_coding	chr1	1374754	1374756	-	1
## 2581	protein_coding	chr1	1374000	1374445	-	1

## 2582	protein_coding	chr1	1374000	1374445	-	1
## 2583	protein_coding	chr1	1373730	1373902	-	1
## 2584	protein_coding	chr1	1373804	1373902	-	1
## 2585	protein_coding	chr1	1373801	1373803	-	1
## 2586	protein_coding	chr1	1375154	1375495	-	1
## 2587	protein_coding	chr1	1374757	1374790	-	1
## 2588	protein_coding	chr1	1373730	1373803	-	1
## 2589	protein_coding	chr1	1373732	1375169	-	1
## 2590	protein_coding	chr1	1375075	1375169	-	1
## 2591	protein_coding	chr1	1374705	1374790	-	1
## 2592	protein_coding	chr1	1374705	1374756	-	1
## 2593	protein_coding	chr1	1374754	1374756	-	1
## 2594	protein_coding	chr1	1374000	1374445	-	1
## 2595	protein_coding	chr1	1374000	1374445	-	1
## 2596	protein_coding	chr1	1373732	1373902	-	1
## 2597	protein_coding	chr1	1373804	1373902	-	1
## 2598	protein_coding	chr1	1373801	1373803	-	1
## 2599	protein_coding	chr1	1375075	1375169	-	1
## 2600	protein_coding	chr1	1374757	1374790	-	1
## 2601	protein_coding	chr1	1373732	1373803	-	1
## 2602	protein_coding	chr1	1373737	1375173	-	1
## 2603	protein_coding	chr1	1374997	1375173	-	1
## 2604	protein_coding	chr1	1374705	1374790	-	1
## 2605	protein_coding	chr1	1374705	1374756	-	1
## 2606	protein_coding	chr1	1374754	1374756	-	1
## 2607	protein_coding	chr1	1374000	1374445	-	1
## 2608	protein_coding	chr1	1374000	1374445	-	1
## 2609	protein_coding	chr1	1373737	1373902	-	1
## 2610	protein_coding	chr1	1373804	1373902	-	1
## 2611	protein_coding	chr1	1373801	1373803	-	1
## 2612	protein_coding	chr1	1374997	1375173	-	1
## 2613	protein_coding	chr1	1374757	1374790	-	1
## 2614	protein_coding	chr1	1373737	1373803	-	1
## 2615	processed_pseudogene	chr1	1378666	1379032	+	1
## 2616	processed_pseudogene	chr1	1378666	1379032	+	1
## 2617	processed_pseudogene	chr1	1378666	1379032	+	1
## 2618	protein_coding	chr1	1385711	1399335	-	1
## 2619	protein_coding	chr1	1385711	1399335	-	1
## 2620	protein_coding	chr1	1399019	1399335	-	1
## 2621	protein_coding	chr1	1399019	1399306	-	1
## 2622	protein_coding	chr1	1399304	1399306	-	1
## 2623	protein_coding	chr1	1398597	1398671	-	1
## 2624	protein_coding	chr1	1398597	1398671	-	1
## 2625	protein_coding	chr1	1398233	1398342	-	1
## 2626	protein_coding	chr1	1398233	1398342	-	1
## 2627	protein_coding	chr1	1395394	1395514	-	1
## 2628	protein_coding	chr1	1395394	1395514	-	1
## 2629	protein_coding	chr1	1393396	1393460	-	1
## 2630	protein_coding	chr1	1393396	1393460	-	1
## 2631	protein_coding	chr1	1390766	1390865	-	1
## 2632	protein_coding	chr1	1390766	1390865	-	1
## 2633	protein_coding	chr1	1390459	1390563	-	1
## 2634	protein_coding	chr1	1390459	1390563	-	1
## 2635	protein_coding	chr1	1390230	1390371	-	1

## 2636	protein_coding	chr1	1390230	1390371	-	1
## 2637	protein_coding	chr1	1387954	1388065	-	1
## 2638	protein_coding	chr1	1387954	1388065	-	1
## 2639	protein_coding	chr1	1387777	1387869	-	1
## 2640	protein_coding	chr1	1387777	1387869	-	1
## 2641	protein_coding	chr1	1385711	1387582	-	1
## 2642	protein_coding	chr1	1387234	1387582	-	1
## 2643	protein_coding	chr1	1387231	1387233	-	1
## 2644	protein_coding	chr1	1399307	1399335	-	1
## 2645	protein_coding	chr1	1385711	1387233	-	1
## 2646	protein_coding	chr1	1386503	1390943	-	1
## 2647	protein_coding	chr1	1390766	1390943	-	1
## 2648	protein_coding	chr1	1390766	1390858	-	1
## 2649	protein_coding	chr1	1390856	1390858	-	1
## 2650	protein_coding	chr1	1390459	1390563	-	1
## 2651	protein_coding	chr1	1390459	1390563	-	1
## 2652	protein_coding	chr1	1390315	1390371	-	1
## 2653	protein_coding	chr1	1390315	1390371	-	1
## 2654	protein_coding	chr1	1390230	1390309	-	1
## 2655	protein_coding	chr1	1390230	1390309	-	1
## 2656	protein_coding	chr1	1388816	1388830	-	1
## 2657	protein_coding	chr1	1388816	1388830	-	1
## 2658	protein_coding	chr1	1388626	1388743	-	1
## 2659	protein_coding	chr1	1388626	1388743	-	1
## 2660	protein_coding	chr1	1388492	1388510	-	1
## 2661	protein_coding	chr1	1388492	1388510	-	1
## 2662	protein_coding	chr1	1387954	1388065	-	1
## 2663	protein_coding	chr1	1387954	1388065	-	1
## 2664	protein_coding	chr1	1387777	1387869	-	1
## 2665	protein_coding	chr1	1387777	1387869	-	1
## 2666	protein_coding	chr1	1386503	1387582	-	1
## 2667	protein_coding	chr1	1387234	1387582	-	1
## 2668	protein_coding	chr1	1387231	1387233	-	1
## 2669	protein_coding	chr1	1390859	1390943	-	1
## 2670	protein_coding	chr1	1386503	1387233	-	1
## 2671	protein_coding	chr1	1392288	1399317	-	1
## 2672	protein_coding	chr1	1399019	1399317	-	1
## 2673	protein_coding	chr1	1399019	1399306	-	1
## 2674	protein_coding	chr1	1399304	1399306	-	1
## 2675	protein_coding	chr1	1398597	1398671	-	1
## 2676	protein_coding	chr1	1398597	1398671	-	1
## 2677	protein_coding	chr1	1398233	1398342	-	1
## 2678	protein_coding	chr1	1398233	1398342	-	1
## 2679	protein_coding	chr1	1395394	1395514	-	1
## 2680	protein_coding	chr1	1395394	1395514	-	1
## 2681	protein_coding	chr1	1393396	1393460	-	1
## 2682	protein_coding	chr1	1393396	1393460	-	1
## 2683	protein_coding	chr1	1392288	1392803	-	1
## 2684	protein_coding	chr1	1392785	1392803	-	1
## 2685	protein_coding	chr1	1392782	1392784	-	1
## 2686	protein_coding	chr1	1399307	1399317	-	1
## 2687	protein_coding	chr1	1392288	1392784	-	1
## 2688	lncRNA	chr1	1399520	1402046	+	1
## 2689	lncRNA	chr1	1399572	1402006	+	1

## 2690	lncRNA	chr1	1399572	1399689	+	1
## 2691	lncRNA	chr1	1399981	1400303	+	1
## 2692	lncRNA	chr1	1400605	1402006	+	1
## 2693	protein_coding	chr1	1401909	1407293	-	1
## 2694	protein_coding	chr1	1401909	1407293	-	1
## 2695	protein_coding	chr1	1407131	1407293	-	1
## 2696	protein_coding	chr1	1407131	1407217	-	1
## 2697	protein_coding	chr1	1407215	1407217	-	1
## 2698	protein_coding	chr1	1406909	1407019	-	1
## 2699	protein_coding	chr1	1406909	1407019	-	1
## 2700	protein_coding	chr1	1405809	1405886	-	1
## 2701	protein_coding	chr1	1405809	1405886	-	1
## 2702	protein_coding	chr1	1401909	1402256	-	1
## 2703	protein_coding	chr1	1402086	1402256	-	1
## 2704	protein_coding	chr1	1402083	1402085	-	1
## 2705	protein_coding	chr1	1407218	1407293	-	1
## 2706	protein_coding	chr1	1401909	1402085	-	1
## 2707	protein_coding	chr1	1405109	1407290	-	1
## 2708	protein_coding	chr1	1407131	1407290	-	1
## 2709	protein_coding	chr1	1407131	1407217	-	1
## 2710	protein_coding	chr1	1407215	1407217	-	1
## 2711	protein_coding	chr1	1406909	1407019	-	1
## 2712	protein_coding	chr1	1406909	1407019	-	1
## 2713	protein_coding	chr1	1405109	1405886	-	1
## 2714	protein_coding	chr1	1405620	1405886	-	1
## 2715	protein_coding	chr1	1405617	1405619	-	1
## 2716	protein_coding	chr1	1407218	1407290	-	1
## 2717	protein_coding	chr1	1405109	1405619	-	1
## 2718	misc_RNA	chr1	1405460	1405752	-	1
## 2719	misc_RNA	chr1	1405460	1405752	-	1
## 2720	misc_RNA	chr1	1405460	1405752	-	1
## 2721	lncRNA	chr1	1409096	1410618	+	0
## 2722	lncRNA	chr1	1409096	1410618	+	0
## 2723	lncRNA	chr1	1409096	1410618	+	0
## 2724	protein_coding	chr1	1418420	1421769	-	1
## 2725	protein_coding	chr1	1418420	1421444	-	1
## 2726	protein_coding	chr1	1421133	1421444	-	1
## 2727	protein_coding	chr1	1420816	1421005	-	1
## 2728	protein_coding	chr1	1420816	1421005	-	1
## 2729	protein_coding	chr1	1421003	1421005	-	1
## 2730	protein_coding	chr1	1418420	1419549	-	1
## 2731	protein_coding	chr1	1419545	1419549	-	1
## 2732	protein_coding	chr1	1419542	1419544	-	1
## 2733	protein_coding	chr1	1421133	1421444	-	1
## 2734	protein_coding	chr1	1418420	1419544	-	1
## 2735	protein_coding	chr1	1418420	1421769	-	1
## 2736	protein_coding	chr1	1421133	1421769	-	1
## 2737	protein_coding	chr1	1420797	1421005	-	1
## 2738	protein_coding	chr1	1420797	1421005	-	1
## 2739	protein_coding	chr1	1421003	1421005	-	1
## 2740	protein_coding	chr1	1418420	1419549	-	1
## 2741	protein_coding	chr1	1419237	1419549	-	1
## 2742	protein_coding	chr1	1419234	1419236	-	1
## 2743	protein_coding	chr1	1421133	1421769	-	1

## 2744	protein_coding	chr1	1418420	1419236	-	1
## 2745	protein_coding	chr1	1418422	1421444	-	1
## 2746	protein_coding	chr1	1421133	1421444	-	1
## 2747	protein_coding	chr1	1420797	1421005	-	1
## 2748	protein_coding	chr1	1420797	1421005	-	1
## 2749	protein_coding	chr1	1421003	1421005	-	1
## 2750	protein_coding	chr1	1420052	1420592	-	1
## 2751	protein_coding	chr1	1420052	1420592	-	1
## 2752	protein_coding	chr1	1418422	1419549	-	1
## 2753	protein_coding	chr1	1419103	1419549	-	1
## 2754	protein_coding	chr1	1419100	1419102	-	1
## 2755	protein_coding	chr1	1421133	1421444	-	1
## 2756	protein_coding	chr1	1418422	1419102	-	1
## 2757	protein_coding	chr1	1418880	1421091	-	1
## 2758	protein_coding	chr1	1420797	1421091	-	1
## 2759	protein_coding	chr1	1420797	1421005	-	1
## 2760	protein_coding	chr1	1421003	1421005	-	1
## 2761	protein_coding	chr1	1420052	1420592	-	1
## 2762	protein_coding	chr1	1420052	1420592	-	1
## 2763	protein_coding	chr1	1418880	1419549	-	1
## 2764	protein_coding	chr1	1419103	1419549	-	1
## 2765	protein_coding	chr1	1419100	1419102	-	1
## 2766	protein_coding	chr1	1421006	1421091	-	1
## 2767	protein_coding	chr1	1418880	1419102	-	1
## 2768	protein_coding	chr1	1419138	1421260	-	1
## 2769	protein_coding	chr1	1420797	1421260	-	1
## 2770	protein_coding	chr1	1420797	1421005	-	1
## 2771	protein_coding	chr1	1421003	1421005	-	1
## 2772	protein_coding	chr1	1419138	1419549	-	1
## 2773	protein_coding	chr1	1419237	1419549	-	1
## 2774	protein_coding	chr1	1419234	1419236	-	1
## 2775	protein_coding	chr1	1421006	1421260	-	1
## 2776	protein_coding	chr1	1419138	1419236	-	1
## 2777	lncRNA	chr1	1420245	1422691	+	0
## 2778	lncRNA	chr1	1420245	1422691	+	0
## 2779	lncRNA	chr1	1420245	1420564	+	0
## 2780	lncRNA	chr1	1422469	1422691	+	0
## 2781	protein_coding	chr1	1426128	1427787	+	1
## 2782	protein_coding	chr1	1426128	1427787	+	1
## 2783	protein_coding	chr1	1426128	1426385	+	1
## 2784	protein_coding	chr1	1426128	1426385	+	1
## 2785	protein_coding	chr1	1426128	1426130	+	1
## 2786	protein_coding	chr1	1427554	1427787	+	1
## 2787	protein_coding	chr1	1427554	1427784	+	1
## 2788	protein_coding	chr1	1427785	1427787	+	1
## 2789	protein_coding	chr1	1427785	1427787	+	1
## 2790	lncRNA	chr1	1430539	1434573	-	1
## 2791	lncRNA	chr1	1430539	1434573	-	1
## 2792	lncRNA	chr1	1434188	1434573	-	1
## 2793	lncRNA	chr1	1430539	1430662	-	1
## 2794	lncRNA	chr1	1430664	1434520	-	1
## 2795	lncRNA	chr1	1434178	1434520	-	1
## 2796	lncRNA	chr1	1430664	1430954	-	1
## 2797	protein_coding	chr1	1434861	1442882	+	1

## 2798	protein_coding	chr1	1435523	1440765	+	1
## 2799	protein_coding	chr1	1435523	1435821	+	1
## 2800	protein_coding	chr1	1435749	1435821	+	1
## 2801	protein_coding	chr1	1435749	1435751	+	1
## 2802	protein_coding	chr1	1437322	1437484	+	1
## 2803	protein_coding	chr1	1437322	1437440	+	1
## 2804	protein_coding	chr1	1437441	1437443	+	1
## 2805	protein_coding	chr1	1439081	1440765	+	1
## 2806	protein_coding	chr1	1435523	1435748	+	1
## 2807	protein_coding	chr1	1437441	1437484	+	1
## 2808	protein_coding	chr1	1439081	1440765	+	1
## 2809	protein_coding	chr1	1435690	1442882	+	1
## 2810	protein_coding	chr1	1435690	1435821	+	1
## 2811	protein_coding	chr1	1435749	1435821	+	1
## 2812	protein_coding	chr1	1435749	1435751	+	1
## 2813	protein_coding	chr1	1436927	1437484	+	1
## 2814	protein_coding	chr1	1436927	1437484	+	1
## 2815	protein_coding	chr1	1439081	1442882	+	1
## 2816	protein_coding	chr1	1439081	1439784	+	1
## 2817	protein_coding	chr1	1439785	1439787	+	1
## 2818	protein_coding	chr1	1435690	1435748	+	1
## 2819	protein_coding	chr1	1439785	1442882	+	1
## 2820	protein_coding	chr1	1449689	1470158	+	1
## 2821	protein_coding	chr1	1449689	1470158	+	1
## 2822	protein_coding	chr1	1449689	1450758	+	1
## 2823	protein_coding	chr1	1450684	1450758	+	1
## 2824	protein_coding	chr1	1450684	1450686	+	1
## 2825	protein_coding	chr1	1452046	1452122	+	1
## 2826	protein_coding	chr1	1452046	1452122	+	1
## 2827	protein_coding	chr1	1452365	1452434	+	1
## 2828	protein_coding	chr1	1452365	1452434	+	1
## 2829	protein_coding	chr1	1454345	1454500	+	1
## 2830	protein_coding	chr1	1454345	1454500	+	1
## 2831	protein_coding	chr1	1455460	1455519	+	1
## 2832	protein_coding	chr1	1455460	1455519	+	1
## 2833	protein_coding	chr1	1455791	1455916	+	1
## 2834	protein_coding	chr1	1455791	1455916	+	1
## 2835	protein_coding	chr1	1456225	1456349	+	1
## 2836	protein_coding	chr1	1456225	1456349	+	1
## 2837	protein_coding	chr1	1457129	1457180	+	1
## 2838	protein_coding	chr1	1457129	1457180	+	1
## 2839	protein_coding	chr1	1459161	1459231	+	1
## 2840	protein_coding	chr1	1459161	1459231	+	1
## 2841	protein_coding	chr1	1460750	1460917	+	1
## 2842	protein_coding	chr1	1460750	1460917	+	1
## 2843	protein_coding	chr1	1462600	1462708	+	1
## 2844	protein_coding	chr1	1462600	1462708	+	1
## 2845	protein_coding	chr1	1468384	1470158	+	1
## 2846	protein_coding	chr1	1468384	1468527	+	1
## 2847	protein_coding	chr1	1468528	1468530	+	1
## 2848	protein_coding	chr1	1449689	1450683	+	1
## 2849	protein_coding	chr1	1468528	1470158	+	1
## 2850	protein_coding	chr1	1471769	1497848	+	1
## 2851	protein_coding	chr1	1471769	1496202	+	1

## 2852	protein_coding	chr1	1471769	1472089	+	1
## 2853	protein_coding	chr1	1471885	1472089	+	1
## 2854	protein_coding	chr1	1471885	1471887	+	1
## 2855	protein_coding	chr1	1477274	1477350	+	1
## 2856	protein_coding	chr1	1477274	1477350	+	1
## 2857	protein_coding	chr1	1478644	1478745	+	1
## 2858	protein_coding	chr1	1478644	1478745	+	1
## 2859	protein_coding	chr1	1479049	1479108	+	1
## 2860	protein_coding	chr1	1479049	1479108	+	1
## 2861	protein_coding	chr1	1480867	1480936	+	1
## 2862	protein_coding	chr1	1480867	1480936	+	1
## 2863	protein_coding	chr1	1482138	1482303	+	1
## 2864	protein_coding	chr1	1482138	1482303	+	1
## 2865	protein_coding	chr1	1482545	1482614	+	1
## 2866	protein_coding	chr1	1482545	1482614	+	1
## 2867	protein_coding	chr1	1485016	1485171	+	1
## 2868	protein_coding	chr1	1485016	1485171	+	1
## 2869	protein_coding	chr1	1485782	1485838	+	1
## 2870	protein_coding	chr1	1485782	1485838	+	1
## 2871	protein_coding	chr1	1486110	1486235	+	1
## 2872	protein_coding	chr1	1486110	1486235	+	1
## 2873	protein_coding	chr1	1486544	1486668	+	1
## 2874	protein_coding	chr1	1486544	1486668	+	1
## 2875	protein_coding	chr1	1487863	1487914	+	1
## 2876	protein_coding	chr1	1487863	1487914	+	1
## 2877	protein_coding	chr1	1489204	1489274	+	1
## 2878	protein_coding	chr1	1489204	1489274	+	1
## 2879	protein_coding	chr1	1490257	1490424	+	1
## 2880	protein_coding	chr1	1490257	1490424	+	1
## 2881	protein_coding	chr1	1490563	1490671	+	1
## 2882	protein_coding	chr1	1490563	1490671	+	1
## 2883	protein_coding	chr1	1495485	1496202	+	1
## 2884	protein_coding	chr1	1495485	1495814	+	1
## 2885	protein_coding	chr1	1495815	1495817	+	1
## 2886	protein_coding	chr1	1471769	1471884	+	1
## 2887	protein_coding	chr1	1495815	1496202	+	1
## 2888	transcribed_unprocessed_pseudogene	chr1	1503250	1509452	+	0
## 2889	transcribed_unprocessed_pseudogene	chr1	1503250	1509452	+	0
## 2890	transcribed_unprocessed_pseudogene	chr1	1503250	1503661	+	0
## 2891	transcribed_unprocessed_pseudogene	chr1	1509205	1509452	+	0
## 2892	transcribed_unprocessed_pseudogene	chr1	1503582	1509351	+	0
## 2893	transcribed_unprocessed_pseudogene	chr1	1503582	1503661	+	0
## 2894	transcribed_unprocessed_pseudogene	chr1	1509205	1509351	+	0
## 2895	protein_coding	chr1	1512151	1534687	+	1
## 2896	protein_coding	chr1	1512151	1534685	+	1
## 2897	protein_coding	chr1	1512151	1512473	+	1
## 2898	protein_coding	chr1	1512269	1512473	+	1
## 2899	protein_coding	chr1	1512269	1512271	+	1
## 2900	protein_coding	chr1	1516012	1516088	+	1
## 2901	protein_coding	chr1	1516012	1516088	+	1
## 2902	protein_coding	chr1	1517311	1517412	+	1
## 2903	protein_coding	chr1	1517311	1517412	+	1
## 2904	protein_coding	chr1	1517716	1517775	+	1
## 2905	protein_coding	chr1	1517716	1517775	+	1

## 2906	protein_coding	chr1	1518921	1518990	+	1
## 2907	protein_coding	chr1	1518921	1518990	+	1
## 2908	protein_coding	chr1	1520141	1520306	+	1
## 2909	protein_coding	chr1	1520141	1520306	+	1
## 2910	protein_coding	chr1	1520548	1520617	+	1
## 2911	protein_coding	chr1	1520548	1520617	+	1
## 2912	protein_coding	chr1	1522744	1522899	+	1
## 2913	protein_coding	chr1	1522744	1522899	+	1
## 2914	protein_coding	chr1	1523511	1523567	+	1
## 2915	protein_coding	chr1	1523511	1523567	+	1
## 2916	protein_coding	chr1	1523839	1523964	+	1
## 2917	protein_coding	chr1	1523839	1523964	+	1
## 2918	protein_coding	chr1	1524273	1524397	+	1
## 2919	protein_coding	chr1	1524273	1524397	+	1
## 2920	protein_coding	chr1	1525240	1525291	+	1
## 2921	protein_coding	chr1	1525240	1525291	+	1
## 2922	protein_coding	chr1	1526461	1526531	+	1
## 2923	protein_coding	chr1	1526461	1526531	+	1
## 2924	protein_coding	chr1	1527695	1527862	+	1
## 2925	protein_coding	chr1	1527695	1527862	+	1
## 2926	protein_coding	chr1	1529223	1529331	+	1
## 2927	protein_coding	chr1	1529223	1529331	+	1
## 2928	protein_coding	chr1	1533926	1534685	+	1
## 2929	protein_coding	chr1	1533926	1534069	+	1
## 2930	protein_coding	chr1	1534070	1534072	+	1
## 2931	protein_coding	chr1	1512151	1512268	+	1
## 2932	protein_coding	chr1	1534070	1534685	+	1
## 2933	protein_coding	chr1	1512175	1534685	+	1
## 2934	protein_coding	chr1	1512175	1512473	+	1
## 2935	protein_coding	chr1	1512269	1512473	+	1
## 2936	protein_coding	chr1	1512269	1512271	+	1
## 2937	protein_coding	chr1	1516012	1516088	+	1
## 2938	protein_coding	chr1	1516012	1516088	+	1
## 2939	protein_coding	chr1	1517167	1517412	+	1
## 2940	protein_coding	chr1	1517167	1517412	+	1
## 2941	protein_coding	chr1	1517716	1517775	+	1
## 2942	protein_coding	chr1	1517716	1517775	+	1
## 2943	protein_coding	chr1	1518921	1518990	+	1
## 2944	protein_coding	chr1	1518921	1518990	+	1
## 2945	protein_coding	chr1	1520141	1520306	+	1
## 2946	protein_coding	chr1	1520141	1520306	+	1
## 2947	protein_coding	chr1	1520548	1520617	+	1
## 2948	protein_coding	chr1	1520548	1520617	+	1
## 2949	protein_coding	chr1	1522744	1522899	+	1
## 2950	protein_coding	chr1	1522744	1522899	+	1
## 2951	protein_coding	chr1	1523511	1523567	+	1
## 2952	protein_coding	chr1	1523511	1523567	+	1
## 2953	protein_coding	chr1	1523839	1523964	+	1
## 2954	protein_coding	chr1	1523839	1523964	+	1
## 2955	protein_coding	chr1	1524273	1524397	+	1
## 2956	protein_coding	chr1	1524273	1524397	+	1
## 2957	protein_coding	chr1	1525240	1525291	+	1
## 2958	protein_coding	chr1	1525240	1525291	+	1
## 2959	protein_coding	chr1	1526461	1526531	+	1

## 2960	protein_coding	chr1	1526461	1526531	+	1
## 2961	protein_coding	chr1	1527695	1527862	+	1
## 2962	protein_coding	chr1	1527695	1527862	+	1
## 2963	protein_coding	chr1	1529223	1529331	+	1
## 2964	protein_coding	chr1	1529223	1529331	+	1
## 2965	protein_coding	chr1	1533926	1534685	+	1
## 2966	protein_coding	chr1	1533926	1534069	+	1
## 2967	protein_coding	chr1	1534070	1534072	+	1
## 2968	protein_coding	chr1	1512175	1512268	+	1
## 2969	protein_coding	chr1	1534070	1534685	+	1
## 2970	protein_coding	chr1	1512530	1534687	+	1
## 2971	protein_coding	chr1	1512530	1512690	+	1
## 2972	protein_coding	chr1	1516012	1516088	+	1
## 2973	protein_coding	chr1	1516044	1516088	+	1
## 2974	protein_coding	chr1	1516044	1516046	+	1
## 2975	protein_coding	chr1	1517311	1517412	+	1
## 2976	protein_coding	chr1	1517311	1517412	+	1
## 2977	protein_coding	chr1	1517716	1517775	+	1
## 2978	protein_coding	chr1	1517716	1517775	+	1
## 2979	protein_coding	chr1	1518921	1518990	+	1
## 2980	protein_coding	chr1	1518921	1518990	+	1
## 2981	protein_coding	chr1	1520141	1520306	+	1
## 2982	protein_coding	chr1	1520141	1520306	+	1
## 2983	protein_coding	chr1	1520548	1520617	+	1
## 2984	protein_coding	chr1	1520548	1520617	+	1
## 2985	protein_coding	chr1	1522744	1522899	+	1
## 2986	protein_coding	chr1	1522744	1522899	+	1
## 2987	protein_coding	chr1	1523511	1523567	+	1
## 2988	protein_coding	chr1	1523511	1523567	+	1
## 2989	protein_coding	chr1	1523839	1523964	+	1
## 2990	protein_coding	chr1	1523839	1523964	+	1
## 2991	protein_coding	chr1	1524273	1524397	+	1
## 2992	protein_coding	chr1	1524273	1524397	+	1
## 2993	protein_coding	chr1	1525240	1525291	+	1
## 2994	protein_coding	chr1	1525240	1525291	+	1
## 2995	protein_coding	chr1	1526461	1526531	+	1
## 2996	protein_coding	chr1	1526461	1526531	+	1
## 2997	protein_coding	chr1	1527695	1527862	+	1
## 2998	protein_coding	chr1	1527695	1527862	+	1
## 2999	protein_coding	chr1	1529223	1529331	+	1
## 3000	protein_coding	chr1	1529223	1529331	+	1
## 3001	protein_coding	chr1	1533926	1534687	+	1
## 3002	protein_coding	chr1	1533926	1534069	+	1
## 3003	protein_coding	chr1	1534070	1534072	+	1
## 3004	protein_coding	chr1	1512530	1512690	+	1
## 3005	protein_coding	chr1	1516012	1516043	+	1
## 3006	protein_coding	chr1	1534070	1534687	+	1
## 3007	protein_coding	chr1	1534778	1540624	-	1
## 3008	protein_coding	chr1	1534778	1540624	-	1
## 3009	protein_coding	chr1	1540290	1540624	-	1
## 3010	protein_coding	chr1	1540290	1540346	-	1
## 3011	protein_coding	chr1	1540344	1540346	-	1
## 3012	protein_coding	chr1	1539684	1539790	-	1
## 3013	protein_coding	chr1	1539684	1539790	-	1

## 3014	protein_coding	chr1	1535589	1535797	-	1
## 3015	protein_coding	chr1	1535589	1535797	-	1
## 3016	protein_coding	chr1	1534778	1535507	-	1
## 3017	protein_coding	chr1	1535362	1535507	-	1
## 3018	protein_coding	chr1	1535359	1535361	-	1
## 3019	protein_coding	chr1	1540347	1540624	-	1
## 3020	protein_coding	chr1	1534778	1535361	-	1
## 3021	protein_coding	chr1	1535207	1540453	-	1
## 3022	protein_coding	chr1	1540420	1540453	-	1
## 3023	protein_coding	chr1	1540290	1540355	-	1
## 3024	protein_coding	chr1	1540290	1540346	-	1
## 3025	protein_coding	chr1	1540344	1540346	-	1
## 3026	protein_coding	chr1	1539684	1539790	-	1
## 3027	protein_coding	chr1	1539684	1539790	-	1
## 3028	protein_coding	chr1	1535589	1535797	-	1
## 3029	protein_coding	chr1	1535589	1535797	-	1
## 3030	protein_coding	chr1	1535207	1535507	-	1
## 3031	protein_coding	chr1	1535362	1535507	-	1
## 3032	protein_coding	chr1	1535359	1535361	-	1
## 3033	protein_coding	chr1	1540420	1540453	-	1
## 3034	protein_coding	chr1	1540347	1540355	-	1
## 3035	protein_coding	chr1	1535207	1535361	-	1
## 3036	protein_coding	chr1	1539056	1540350	-	1
## 3037	protein_coding	chr1	1540290	1540350	-	1
## 3038	protein_coding	chr1	1540290	1540346	-	1
## 3039	protein_coding	chr1	1540344	1540346	-	1
## 3040	protein_coding	chr1	1539056	1539790	-	1
## 3041	protein_coding	chr1	1539683	1539790	-	1
## 3042	protein_coding	chr1	1539680	1539682	-	1
## 3043	protein_coding	chr1	1540347	1540350	-	1
## 3044	protein_coding	chr1	1539056	1539682	-	1
## 3045	protein_coding	chr1	1541673	1574863	-	1
## 3046	protein_coding	chr1	1541673	1574863	-	1
## 3047	protein_coding	chr1	1574478	1574863	-	1
## 3048	protein_coding	chr1	1574478	1574557	-	1
## 3049	protein_coding	chr1	1574555	1574557	-	1
## 3050	protein_coding	chr1	1564773	1564916	-	1
## 3051	protein_coding	chr1	1564773	1564916	-	1
## 3052	protein_coding	chr1	1544863	1545002	-	1
## 3053	protein_coding	chr1	1544863	1545002	-	1
## 3054	protein_coding	chr1	1543869	1543987	-	1
## 3055	protein_coding	chr1	1543869	1543987	-	1
## 3056	protein_coding	chr1	1541673	1542167	-	1
## 3057	protein_coding	chr1	1542069	1542167	-	1
## 3058	protein_coding	chr1	1542066	1542068	-	1
## 3059	protein_coding	chr1	1574558	1574863	-	1
## 3060	protein_coding	chr1	1541673	1542068	-	1
## 3061	protein_coding	chr1	1560848	1574584	-	1
## 3062	protein_coding	chr1	1574478	1574584	-	1
## 3063	protein_coding	chr1	1574478	1574557	-	1
## 3064	protein_coding	chr1	1574555	1574557	-	1
## 3065	protein_coding	chr1	1560848	1564916	-	1
## 3066	protein_coding	chr1	1564538	1564916	-	1
## 3067	protein_coding	chr1	1564535	1564537	-	1

## 3068	protein_coding	chr1	1574558	1574584	-	1
## 3069	protein_coding	chr1	1560848	1564537	-	1
## 3070	lncRNA	chr1	1574102	1577075	+	0
## 3071	lncRNA	chr1	1574102	1575879	+	0
## 3072	lncRNA	chr1	1574102	1574349	+	0
## 3073	lncRNA	chr1	1575287	1575879	+	0
## 3074	processed_pseudogene	chr1	1583510	1583909	-	0
## 3075	processed_pseudogene	chr1	1583510	1583909	-	0
## 3076	processed_pseudogene	chr1	1583510	1583909	-	0
## 3077	protein_coding	chr1	1598012	1600135	-	1
## 3078	protein_coding	chr1	1598012	1600135	-	1
## 3079	protein_coding	chr1	1598012	1600135	-	1
## 3080	protein_coding	chr1	1599338	1600015	-	1
## 3081	protein_coding	chr1	1600013	1600015	-	1
## 3082	protein_coding	chr1	1599335	1599337	-	1
## 3083	protein_coding	chr1	1598012	1599337	-	1
## 3084	protein_coding	chr1	1600016	1600135	-	1
## 3085	lncRNA	chr1	1600314	1602703	+	0
## 3086	lncRNA	chr1	1600314	1602703	+	0
## 3087	lncRNA	chr1	1600314	1600582	+	0
## 3088	lncRNA	chr1	1600657	1600706	+	0
## 3089	lncRNA	chr1	1601193	1602703	+	0
## 3090	lncRNA	chr1	1613758	1615795	-	0
## 3091	lncRNA	chr1	1613758	1615795	-	0
## 3092	lncRNA	chr1	1613758	1615795	-	0
## 3093	protein_coding	chr1	1615415	1630610	+	1
## 3094	protein_coding	chr1	1615415	1630605	+	1
## 3095	protein_coding	chr1	1615415	1615633	+	1
## 3096	protein_coding	chr1	1615460	1615633	+	1
## 3097	protein_coding	chr1	1615460	1615462	+	1
## 3098	protein_coding	chr1	1616508	1616614	+	1
## 3099	protein_coding	chr1	1616508	1616614	+	1
## 3100	protein_coding	chr1	1623389	1623699	+	1
## 3101	protein_coding	chr1	1623389	1623699	+	1
## 3102	protein_coding	chr1	1623774	1623945	+	1
## 3103	protein_coding	chr1	1623774	1623945	+	1
## 3104	protein_coding	chr1	1624795	1624901	+	1
## 3105	protein_coding	chr1	1624795	1624901	+	1
## 3106	protein_coding	chr1	1624991	1625185	+	1
## 3107	protein_coding	chr1	1624991	1625185	+	1
## 3108	protein_coding	chr1	1625286	1625428	+	1
## 3109	protein_coding	chr1	1625286	1625428	+	1
## 3110	protein_coding	chr1	1625558	1625653	+	1
## 3111	protein_coding	chr1	1625558	1625653	+	1
## 3112	protein_coding	chr1	1626650	1626754	+	1
## 3113	protein_coding	chr1	1626650	1626754	+	1
## 3114	protein_coding	chr1	1626837	1626999	+	1
## 3115	protein_coding	chr1	1626837	1626999	+	1
## 3116	protein_coding	chr1	1627074	1627207	+	1
## 3117	protein_coding	chr1	1627074	1627207	+	1
## 3118	protein_coding	chr1	1627296	1627444	+	1
## 3119	protein_coding	chr1	1627296	1627444	+	1
## 3120	protein_coding	chr1	1627673	1627829	+	1
## 3121	protein_coding	chr1	1627673	1627829	+	1

## 3122	protein_coding	chr1	1628019	1628179	+	1
## 3123	protein_coding	chr1	1628019	1628179	+	1
## 3124	protein_coding	chr1	1628273	1628399	+	1
## 3125	protein_coding	chr1	1628273	1628399	+	1
## 3126	protein_coding	chr1	1628489	1628722	+	1
## 3127	protein_coding	chr1	1628489	1628722	+	1
## 3128	protein_coding	chr1	1629133	1629311	+	1
## 3129	protein_coding	chr1	1629133	1629311	+	1
## 3130	protein_coding	chr1	1629385	1629566	+	1
## 3131	protein_coding	chr1	1629385	1629566	+	1
## 3132	protein_coding	chr1	1629639	1629704	+	1
## 3133	protein_coding	chr1	1629639	1629704	+	1
## 3134	protein_coding	chr1	1630292	1630605	+	1
## 3135	protein_coding	chr1	1630292	1630527	+	1
## 3136	protein_coding	chr1	1630528	1630530	+	1
## 3137	protein_coding	chr1	1615415	1615459	+	1
## 3138	protein_coding	chr1	1630528	1630605	+	1
## 3139	protein_coding	chr1	1615421	1630610	+	1
## 3140	protein_coding	chr1	1615421	1615633	+	1
## 3141	protein_coding	chr1	1615460	1615633	+	1
## 3142	protein_coding	chr1	1615460	1615462	+	1
## 3143	protein_coding	chr1	1616508	1616614	+	1
## 3144	protein_coding	chr1	1616508	1616614	+	1
## 3145	protein_coding	chr1	1623431	1623699	+	1
## 3146	protein_coding	chr1	1623431	1623699	+	1
## 3147	protein_coding	chr1	1623774	1623945	+	1
## 3148	protein_coding	chr1	1623774	1623945	+	1
## 3149	protein_coding	chr1	1624795	1624901	+	1
## 3150	protein_coding	chr1	1624795	1624901	+	1
## 3151	protein_coding	chr1	1624991	1625185	+	1
## 3152	protein_coding	chr1	1624991	1625185	+	1
## 3153	protein_coding	chr1	1625286	1625428	+	1
## 3154	protein_coding	chr1	1625286	1625428	+	1
## 3155	protein_coding	chr1	1625546	1625653	+	1
## 3156	protein_coding	chr1	1625546	1625653	+	1
## 3157	protein_coding	chr1	1626650	1626754	+	1
## 3158	protein_coding	chr1	1626650	1626754	+	1
## 3159	protein_coding	chr1	1626837	1626999	+	1
## 3160	protein_coding	chr1	1626837	1626999	+	1
## 3161	protein_coding	chr1	1627074	1627207	+	1
## 3162	protein_coding	chr1	1627074	1627207	+	1
## 3163	protein_coding	chr1	1627296	1627444	+	1
## 3164	protein_coding	chr1	1627296	1627444	+	1
## 3165	protein_coding	chr1	1627673	1627829	+	1
## 3166	protein_coding	chr1	1627673	1627829	+	1
## 3167	protein_coding	chr1	1628019	1628179	+	1
## 3168	protein_coding	chr1	1628019	1628179	+	1
## 3169	protein_coding	chr1	1628273	1628399	+	1
## 3170	protein_coding	chr1	1628273	1628399	+	1
## 3171	protein_coding	chr1	1628489	1628722	+	1
## 3172	protein_coding	chr1	1628489	1628722	+	1
## 3173	protein_coding	chr1	1629133	1629311	+	1
## 3174	protein_coding	chr1	1629133	1629311	+	1
## 3175	protein_coding	chr1	1629385	1629566	+	1

## 3176	protein_coding	chr1	1629385	1629566	+	1
## 3177	protein_coding	chr1	1629639	1629704	+	1
## 3178	protein_coding	chr1	1629639	1629704	+	1
## 3179	protein_coding	chr1	1630292	1630610	+	1
## 3180	protein_coding	chr1	1630292	1630527	+	1
## 3181	protein_coding	chr1	1630528	1630530	+	1
## 3182	protein_coding	chr1	1615421	1615459	+	1
## 3183	protein_coding	chr1	1630528	1630610	+	1
## 3184	protein_coding	chr1	1615437	1630605	+	1
## 3185	protein_coding	chr1	1615437	1615633	+	1
## 3186	protein_coding	chr1	1615460	1615633	+	1
## 3187	protein_coding	chr1	1615460	1615462	+	1
## 3188	protein_coding	chr1	1616508	1616614	+	1
## 3189	protein_coding	chr1	1616508	1616614	+	1
## 3190	protein_coding	chr1	1623389	1623699	+	1
## 3191	protein_coding	chr1	1623389	1623699	+	1
## 3192	protein_coding	chr1	1623774	1623945	+	1
## 3193	protein_coding	chr1	1623774	1623945	+	1
## 3194	protein_coding	chr1	1624795	1624901	+	1
## 3195	protein_coding	chr1	1624795	1624901	+	1
## 3196	protein_coding	chr1	1625286	1625428	+	1
## 3197	protein_coding	chr1	1625286	1625428	+	1
## 3198	protein_coding	chr1	1625546	1625653	+	1
## 3199	protein_coding	chr1	1625546	1625653	+	1
## 3200	protein_coding	chr1	1626650	1626754	+	1
## 3201	protein_coding	chr1	1626650	1626754	+	1
## 3202	protein_coding	chr1	1626837	1626999	+	1
## 3203	protein_coding	chr1	1626837	1626999	+	1
## 3204	protein_coding	chr1	1627074	1627207	+	1
## 3205	protein_coding	chr1	1627074	1627207	+	1
## 3206	protein_coding	chr1	1627296	1627444	+	1
## 3207	protein_coding	chr1	1627296	1627444	+	1
## 3208	protein_coding	chr1	1627673	1627829	+	1
## 3209	protein_coding	chr1	1627673	1627829	+	1
## 3210	protein_coding	chr1	1628019	1628179	+	1
## 3211	protein_coding	chr1	1628019	1628179	+	1
## 3212	protein_coding	chr1	1628273	1628399	+	1
## 3213	protein_coding	chr1	1628273	1628399	+	1
## 3214	protein_coding	chr1	1628489	1628722	+	1
## 3215	protein_coding	chr1	1628489	1628722	+	1
## 3216	protein_coding	chr1	1629133	1629311	+	1
## 3217	protein_coding	chr1	1629133	1629311	+	1
## 3218	protein_coding	chr1	1629385	1629566	+	1
## 3219	protein_coding	chr1	1629385	1629566	+	1
## 3220	protein_coding	chr1	1629639	1629704	+	1
## 3221	protein_coding	chr1	1629639	1629704	+	1
## 3222	protein_coding	chr1	1630292	1630605	+	1
## 3223	protein_coding	chr1	1630292	1630527	+	1
## 3224	protein_coding	chr1	1630528	1630530	+	1
## 3225	protein_coding	chr1	1615437	1615459	+	1
## 3226	protein_coding	chr1	1630528	1630605	+	1
## 3227	protein_coding	chr1	1615443	1630605	+	1
## 3228	protein_coding	chr1	1615443	1615633	+	1
## 3229	protein_coding	chr1	1615460	1615633	+	1

## 3230	protein_coding	chr1	1615460	1615462	+	1
## 3231	protein_coding	chr1	1616508	1616614	+	1
## 3232	protein_coding	chr1	1616508	1616614	+	1
## 3233	protein_coding	chr1	1623389	1623699	+	1
## 3234	protein_coding	chr1	1623389	1623699	+	1
## 3235	protein_coding	chr1	1623774	1623945	+	1
## 3236	protein_coding	chr1	1623774	1623945	+	1
## 3237	protein_coding	chr1	1624795	1624901	+	1
## 3238	protein_coding	chr1	1624795	1624901	+	1
## 3239	protein_coding	chr1	1624991	1625185	+	1
## 3240	protein_coding	chr1	1624991	1625185	+	1
## 3241	protein_coding	chr1	1625286	1625428	+	1
## 3242	protein_coding	chr1	1625286	1625428	+	1
## 3243	protein_coding	chr1	1625546	1625653	+	1
## 3244	protein_coding	chr1	1625546	1625653	+	1
## 3245	protein_coding	chr1	1626650	1626754	+	1
## 3246	protein_coding	chr1	1626650	1626754	+	1
## 3247	protein_coding	chr1	1626837	1626999	+	1
## 3248	protein_coding	chr1	1626837	1626999	+	1
## 3249	protein_coding	chr1	1627074	1627207	+	1
## 3250	protein_coding	chr1	1627074	1627207	+	1
## 3251	protein_coding	chr1	1627296	1627444	+	1
## 3252	protein_coding	chr1	1627296	1627444	+	1
## 3253	protein_coding	chr1	1627673	1627829	+	1
## 3254	protein_coding	chr1	1627673	1627829	+	1
## 3255	protein_coding	chr1	1628019	1628179	+	1
## 3256	protein_coding	chr1	1628019	1628179	+	1
## 3257	protein_coding	chr1	1628273	1628399	+	1
## 3258	protein_coding	chr1	1628273	1628399	+	1
## 3259	protein_coding	chr1	1628489	1628722	+	1
## 3260	protein_coding	chr1	1628489	1628722	+	1
## 3261	protein_coding	chr1	1629133	1629311	+	1
## 3262	protein_coding	chr1	1629133	1629311	+	1
## 3263	protein_coding	chr1	1629385	1629566	+	1
## 3264	protein_coding	chr1	1629385	1629566	+	1
## 3265	protein_coding	chr1	1629639	1629704	+	1
## 3266	protein_coding	chr1	1629639	1629704	+	1
## 3267	protein_coding	chr1	1630292	1630605	+	1
## 3268	protein_coding	chr1	1630292	1630527	+	1
## 3269	protein_coding	chr1	1630528	1630530	+	1
## 3270	protein_coding	chr1	1615443	1615459	+	1
## 3271	protein_coding	chr1	1630528	1630605	+	1
## 3272	protein_coding	chr1	1615905	1630604	+	1
## 3273	protein_coding	chr1	1615905	1616100	+	1
## 3274	protein_coding	chr1	1616508	1616614	+	1
## 3275	protein_coding	chr1	1623431	1623699	+	1
## 3276	protein_coding	chr1	1623453	1623699	+	1
## 3277	protein_coding	chr1	1623453	1623455	+	1
## 3278	protein_coding	chr1	1623774	1623945	+	1
## 3279	protein_coding	chr1	1623774	1623945	+	1
## 3280	protein_coding	chr1	1624795	1624901	+	1
## 3281	protein_coding	chr1	1624795	1624901	+	1
## 3282	protein_coding	chr1	1625286	1625428	+	1
## 3283	protein_coding	chr1	1625286	1625428	+	1

## 3284	protein_coding	chr1	1625546	1625653	+	1
## 3285	protein_coding	chr1	1625546	1625653	+	1
## 3286	protein_coding	chr1	1626650	1626754	+	1
## 3287	protein_coding	chr1	1626650	1626754	+	1
## 3288	protein_coding	chr1	1626837	1626999	+	1
## 3289	protein_coding	chr1	1626837	1626999	+	1
## 3290	protein_coding	chr1	1627074	1627207	+	1
## 3291	protein_coding	chr1	1627074	1627207	+	1
## 3292	protein_coding	chr1	1627296	1627444	+	1
## 3293	protein_coding	chr1	1627296	1627444	+	1
## 3294	protein_coding	chr1	1627673	1627829	+	1
## 3295	protein_coding	chr1	1627673	1627829	+	1
## 3296	protein_coding	chr1	1628019	1628179	+	1
## 3297	protein_coding	chr1	1628019	1628179	+	1
## 3298	protein_coding	chr1	1628273	1628399	+	1
## 3299	protein_coding	chr1	1628273	1628399	+	1
## 3300	protein_coding	chr1	1628489	1628722	+	1
## 3301	protein_coding	chr1	1628489	1628722	+	1
## 3302	protein_coding	chr1	1629133	1629311	+	1
## 3303	protein_coding	chr1	1629133	1629311	+	1
## 3304	protein_coding	chr1	1629639	1629704	+	1
## 3305	protein_coding	chr1	1629639	1629704	+	1
## 3306	protein_coding	chr1	1630292	1630604	+	1
## 3307	protein_coding	chr1	1630292	1630298	+	1
## 3308	protein_coding	chr1	1630299	1630301	+	1
## 3309	protein_coding	chr1	1615905	1616100	+	1
## 3310	protein_coding	chr1	1616508	1616614	+	1
## 3311	protein_coding	chr1	1623431	1623452	+	1
## 3312	protein_coding	chr1	1630299	1630604	+	1
## 3313	protein_coding	chr1	1616310	1630604	+	1
## 3314	protein_coding	chr1	1616310	1616614	+	1
## 3315	protein_coding	chr1	1623389	1623699	+	1
## 3316	protein_coding	chr1	1623411	1623699	+	1
## 3317	protein_coding	chr1	1623411	1623413	+	1
## 3318	protein_coding	chr1	1623774	1623945	+	1
## 3319	protein_coding	chr1	1623774	1623945	+	1
## 3320	protein_coding	chr1	1624795	1624901	+	1
## 3321	protein_coding	chr1	1624795	1624901	+	1
## 3322	protein_coding	chr1	1624991	1625185	+	1
## 3323	protein_coding	chr1	1624991	1625185	+	1
## 3324	protein_coding	chr1	1625286	1625428	+	1
## 3325	protein_coding	chr1	1625286	1625428	+	1
## 3326	protein_coding	chr1	1625546	1625653	+	1
## 3327	protein_coding	chr1	1625546	1625653	+	1
## 3328	protein_coding	chr1	1626650	1626754	+	1
## 3329	protein_coding	chr1	1626650	1626754	+	1
## 3330	protein_coding	chr1	1626837	1626999	+	1
## 3331	protein_coding	chr1	1626837	1626999	+	1
## 3332	protein_coding	chr1	1627074	1627207	+	1
## 3333	protein_coding	chr1	1627074	1627207	+	1
## 3334	protein_coding	chr1	1627296	1627444	+	1
## 3335	protein_coding	chr1	1627296	1627444	+	1
## 3336	protein_coding	chr1	1627673	1627829	+	1
## 3337	protein_coding	chr1	1627673	1627829	+	1

## 3338	protein_coding	chr1	1628019	1628179	+	1
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## 3340	protein_coding	chr1	1628273	1628399	+	1
## 3341	protein_coding	chr1	1628273	1628399	+	1
## 3342	protein_coding	chr1	1628489	1628722	+	1
## 3343	protein_coding	chr1	1628489	1628722	+	1
## 3344	protein_coding	chr1	1629133	1629311	+	1
## 3345	protein_coding	chr1	1629133	1629311	+	1
## 3346	protein_coding	chr1	1629385	1629566	+	1
## 3347	protein_coding	chr1	1629385	1629566	+	1
## 3348	protein_coding	chr1	1629639	1629704	+	1
## 3349	protein_coding	chr1	1629639	1629704	+	1
## 3350	protein_coding	chr1	1630292	1630604	+	1
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## 3352	protein_coding	chr1	1630528	1630530	+	1
## 3353	protein_coding	chr1	1616310	1616614	+	1
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## 3355	protein_coding	chr1	1630528	1630604	+	1
## 3356	protein_coding	chr1	1617560	1630604	+	1
## 3357	protein_coding	chr1	1617560	1617715	+	1
## 3358	protein_coding	chr1	1623431	1623699	+	1
## 3359	protein_coding	chr1	1623453	1623699	+	1
## 3360	protein_coding	chr1	1623453	1623455	+	1
## 3361	protein_coding	chr1	1623774	1623945	+	1
## 3362	protein_coding	chr1	1623774	1623945	+	1
## 3363	protein_coding	chr1	1624795	1624901	+	1
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## 3365	protein_coding	chr1	1624991	1625185	+	1
## 3366	protein_coding	chr1	1624991	1625185	+	1
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## 3368	protein_coding	chr1	1625286	1625428	+	1
## 3369	protein_coding	chr1	1626650	1626754	+	1
## 3370	protein_coding	chr1	1626650	1626754	+	1
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## 3372	protein_coding	chr1	1626837	1626999	+	1
## 3373	protein_coding	chr1	1627074	1627207	+	1
## 3374	protein_coding	chr1	1627074	1627207	+	1
## 3375	protein_coding	chr1	1627296	1627444	+	1
## 3376	protein_coding	chr1	1627296	1627444	+	1
## 3377	protein_coding	chr1	1627673	1627829	+	1
## 3378	protein_coding	chr1	1627673	1627829	+	1
## 3379	protein_coding	chr1	1628019	1628179	+	1
## 3380	protein_coding	chr1	1628019	1628179	+	1
## 3381	protein_coding	chr1	1628273	1628399	+	1
## 3382	protein_coding	chr1	1628273	1628399	+	1
## 3383	protein_coding	chr1	1628489	1628722	+	1
## 3384	protein_coding	chr1	1628489	1628722	+	1
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## 3389	protein_coding	chr1	1629639	1629704	+	1
## 3390	protein_coding	chr1	1629639	1629704	+	1
## 3391	protein_coding	chr1	1630292	1630604	+	1

## 3392	protein_coding	chr1	1630292	1630527	+	1
## 3393	protein_coding	chr1	1630528	1630530	+	1
## 3394	protein_coding	chr1	1617560	1617715	+	1
## 3395	protein_coding	chr1	1623431	1623452	+	1
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## 3397	protein_coding	chr1	1632095	1635263	+	1
## 3398	protein_coding	chr1	1632095	1634654	+	1
## 3399	protein_coding	chr1	1632095	1632374	+	1
## 3400	protein_coding	chr1	1632219	1632374	+	1
## 3401	protein_coding	chr1	1632219	1632221	+	1
## 3402	protein_coding	chr1	1632783	1632913	+	1
## 3403	protein_coding	chr1	1632783	1632913	+	1
## 3404	protein_coding	chr1	1632981	1633120	+	1
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## 3406	protein_coding	chr1	1633188	1633355	+	1
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## 3408	protein_coding	chr1	1633748	1633912	+	1
## 3409	protein_coding	chr1	1633748	1633912	+	1
## 3410	protein_coding	chr1	1633989	1634099	+	1
## 3411	protein_coding	chr1	1633989	1634099	+	1
## 3412	protein_coding	chr1	1634202	1634328	+	1
## 3413	protein_coding	chr1	1634202	1634328	+	1
## 3414	protein_coding	chr1	1634451	1634654	+	1
## 3415	protein_coding	chr1	1634451	1634622	+	1
## 3416	protein_coding	chr1	1634623	1634625	+	1
## 3417	protein_coding	chr1	1632095	1632218	+	1
## 3418	protein_coding	chr1	1634623	1634654	+	1
## 3419	protein_coding	chr1	1632179	1634654	+	1
## 3420	protein_coding	chr1	1632179	1632374	+	1
## 3421	protein_coding	chr1	1632219	1632374	+	1
## 3422	protein_coding	chr1	1632219	1632221	+	1
## 3423	protein_coding	chr1	1632783	1632913	+	1
## 3424	protein_coding	chr1	1632783	1632913	+	1
## 3425	protein_coding	chr1	1632981	1633355	+	1
## 3426	protein_coding	chr1	1632981	1633355	+	1
## 3427	protein_coding	chr1	1633748	1633912	+	1
## 3428	protein_coding	chr1	1633748	1633912	+	1
## 3429	protein_coding	chr1	1633989	1634099	+	1
## 3430	protein_coding	chr1	1633989	1634099	+	1
## 3431	protein_coding	chr1	1634202	1634328	+	1
## 3432	protein_coding	chr1	1634202	1634328	+	1
## 3433	protein_coding	chr1	1634451	1634654	+	1
## 3434	protein_coding	chr1	1634451	1634543	+	1
## 3435	protein_coding	chr1	1634544	1634546	+	1
## 3436	protein_coding	chr1	1632179	1632218	+	1
## 3437	protein_coding	chr1	1634544	1634654	+	1
## 3438	protein_coding	chr1	1635227	1659012	-	1
## 3439	protein_coding	chr1	1635227	1659012	-	1
## 3440	protein_coding	chr1	1658914	1659012	-	1
## 3441	protein_coding	chr1	1657375	1657498	-	1
## 3442	protein_coding	chr1	1657375	1657485	-	1
## 3443	protein_coding	chr1	1657483	1657485	-	1
## 3444	protein_coding	chr1	1655369	1655484	-	1
## 3445	protein_coding	chr1	1655369	1655484	-	1

## 3446	protein_coding	chr1	1652439	1652566	-	1
## 3447	protein_coding	chr1	1652439	1652566	-	1
## 3448	protein_coding	chr1	1649499	1649637	-	1
## 3449	protein_coding	chr1	1649499	1649637	-	1
## 3450	protein_coding	chr1	1645126	1645262	-	1
## 3451	protein_coding	chr1	1645126	1645262	-	1
## 3452	protein_coding	chr1	1642386	1642508	-	1
## 3453	protein_coding	chr1	1642386	1642508	-	1
## 3454	protein_coding	chr1	1641906	1642001	-	1
## 3455	protein_coding	chr1	1641906	1642001	-	1
## 3456	protein_coding	chr1	1641662	1641820	-	1
## 3457	protein_coding	chr1	1641662	1641820	-	1
## 3458	protein_coding	chr1	1641048	1641113	-	1
## 3459	protein_coding	chr1	1641048	1641113	-	1
## 3460	protein_coding	chr1	1640277	1640452	-	1
## 3461	protein_coding	chr1	1640277	1640452	-	1
## 3462	protein_coding	chr1	1638500	1638590	-	1
## 3463	protein_coding	chr1	1638500	1638590	-	1
## 3464	protein_coding	chr1	1637762	1637883	-	1
## 3465	protein_coding	chr1	1637762	1637883	-	1
## 3466	protein_coding	chr1	1637408	1637513	-	1
## 3467	protein_coding	chr1	1637408	1637513	-	1
## 3468	protein_coding	chr1	1637081	1637202	-	1
## 3469	protein_coding	chr1	1637081	1637202	-	1
## 3470	protein_coding	chr1	1636897	1637004	-	1
## 3471	protein_coding	chr1	1636897	1637004	-	1
## 3472	protein_coding	chr1	1636682	1636798	-	1
## 3473	protein_coding	chr1	1636682	1636798	-	1
## 3474	protein_coding	chr1	1636333	1636481	-	1
## 3475	protein_coding	chr1	1636333	1636481	-	1
## 3476	protein_coding	chr1	1635937	1636126	-	1
## 3477	protein_coding	chr1	1635937	1636126	-	1
## 3478	protein_coding	chr1	1635227	1635856	-	1
## 3479	protein_coding	chr1	1635767	1635856	-	1
## 3480	protein_coding	chr1	1635764	1635766	-	1
## 3481	protein_coding	chr1	1658914	1659012	-	1
## 3482	protein_coding	chr1	1657486	1657498	-	1
## 3483	protein_coding	chr1	1635227	1635766	-	1
## 3484	protein_coding	chr1	1635587	1659012	-	1
## 3485	protein_coding	chr1	1658914	1659012	-	1
## 3486	protein_coding	chr1	1657375	1657498	-	1
## 3487	protein_coding	chr1	1657375	1657485	-	1
## 3488	protein_coding	chr1	1657483	1657485	-	1
## 3489	protein_coding	chr1	1655369	1655484	-	1
## 3490	protein_coding	chr1	1655369	1655484	-	1
## 3491	protein_coding	chr1	1652439	1652566	-	1
## 3492	protein_coding	chr1	1652439	1652566	-	1
## 3493	protein_coding	chr1	1649499	1649637	-	1
## 3494	protein_coding	chr1	1649499	1649637	-	1
## 3495	protein_coding	chr1	1645126	1645262	-	1
## 3496	protein_coding	chr1	1645126	1645262	-	1
## 3497	protein_coding	chr1	1642347	1642508	-	1
## 3498	protein_coding	chr1	1642347	1642508	-	1
## 3499	protein_coding	chr1	1641906	1642001	-	1

## 3500	protein_coding	chr1	1641906	1642001	-	1
## 3501	protein_coding	chr1	1641662	1641820	-	1
## 3502	protein_coding	chr1	1641662	1641820	-	1
## 3503	protein_coding	chr1	1641048	1641113	-	1
## 3504	protein_coding	chr1	1641048	1641113	-	1
## 3505	protein_coding	chr1	1640277	1640452	-	1
## 3506	protein_coding	chr1	1640277	1640452	-	1
## 3507	protein_coding	chr1	1638500	1638590	-	1
## 3508	protein_coding	chr1	1638500	1638590	-	1
## 3509	protein_coding	chr1	1637762	1637883	-	1
## 3510	protein_coding	chr1	1637762	1637883	-	1
## 3511	protein_coding	chr1	1637408	1637513	-	1
## 3512	protein_coding	chr1	1637408	1637513	-	1
## 3513	protein_coding	chr1	1637081	1637202	-	1
## 3514	protein_coding	chr1	1637081	1637202	-	1
## 3515	protein_coding	chr1	1636897	1637004	-	1
## 3516	protein_coding	chr1	1636897	1637004	-	1
## 3517	protein_coding	chr1	1636682	1636798	-	1
## 3518	protein_coding	chr1	1636682	1636798	-	1
## 3519	protein_coding	chr1	1636333	1636481	-	1
## 3520	protein_coding	chr1	1636333	1636481	-	1
## 3521	protein_coding	chr1	1635937	1636126	-	1
## 3522	protein_coding	chr1	1635937	1636126	-	1
## 3523	protein_coding	chr1	1635587	1635856	-	1
## 3524	protein_coding	chr1	1635767	1635856	-	1
## 3525	protein_coding	chr1	1635764	1635766	-	1
## 3526	protein_coding	chr1	1658914	1659012	-	1
## 3527	protein_coding	chr1	1657486	1657498	-	1
## 3528	protein_coding	chr1	1635587	1635766	-	1
## 3529	protein_coding	chr1	1635738	1659012	-	1
## 3530	protein_coding	chr1	1658914	1659012	-	1
## 3531	protein_coding	chr1	1657375	1657498	-	1
## 3532	protein_coding	chr1	1657256	1657302	-	1
## 3533	protein_coding	chr1	1657256	1657264	-	1
## 3534	protein_coding	chr1	1657262	1657264	-	1
## 3535	protein_coding	chr1	1655369	1655484	-	1
## 3536	protein_coding	chr1	1655369	1655484	-	1
## 3537	protein_coding	chr1	1652439	1652566	-	1
## 3538	protein_coding	chr1	1652439	1652566	-	1
## 3539	protein_coding	chr1	1649499	1649637	-	1
## 3540	protein_coding	chr1	1649499	1649637	-	1
## 3541	protein_coding	chr1	1645126	1645262	-	1
## 3542	protein_coding	chr1	1645126	1645262	-	1
## 3543	protein_coding	chr1	1642386	1642508	-	1
## 3544	protein_coding	chr1	1642386	1642508	-	1
## 3545	protein_coding	chr1	1641906	1642001	-	1
## 3546	protein_coding	chr1	1641906	1642001	-	1
## 3547	protein_coding	chr1	1641662	1641820	-	1
## 3548	protein_coding	chr1	1641662	1641820	-	1
## 3549	protein_coding	chr1	1641048	1641113	-	1
## 3550	protein_coding	chr1	1641048	1641113	-	1
## 3551	protein_coding	chr1	1640277	1640452	-	1
## 3552	protein_coding	chr1	1640277	1640452	-	1
## 3553	protein_coding	chr1	1638500	1638590	-	1

## 3554	protein_coding	chr1	1638500	1638590	-	1
## 3555	protein_coding	chr1	1637762	1637883	-	1
## 3556	protein_coding	chr1	1637762	1637883	-	1
## 3557	protein_coding	chr1	1637408	1637513	-	1
## 3558	protein_coding	chr1	1637408	1637513	-	1
## 3559	protein_coding	chr1	1637081	1637202	-	1
## 3560	protein_coding	chr1	1637081	1637202	-	1
## 3561	protein_coding	chr1	1636897	1637004	-	1
## 3562	protein_coding	chr1	1636897	1637004	-	1
## 3563	protein_coding	chr1	1636682	1636798	-	1
## 3564	protein_coding	chr1	1636682	1636798	-	1
## 3565	protein_coding	chr1	1636333	1636481	-	1
## 3566	protein_coding	chr1	1636333	1636481	-	1
## 3567	protein_coding	chr1	1635937	1636126	-	1
## 3568	protein_coding	chr1	1635937	1636126	-	1
## 3569	protein_coding	chr1	1635738	1635856	-	1
## 3570	protein_coding	chr1	1635767	1635856	-	1
## 3571	protein_coding	chr1	1635764	1635766	-	1
## 3572	protein_coding	chr1	1658914	1659012	-	1
## 3573	protein_coding	chr1	1657375	1657498	-	1
## 3574	protein_coding	chr1	1657265	1657302	-	1
## 3575	protein_coding	chr1	1635738	1635766	-	1
## 3576	protein_coding	chr1	1635738	1659012	-	1
## 3577	protein_coding	chr1	1658914	1659012	-	1
## 3578	protein_coding	chr1	1657375	1657498	-	1
## 3579	protein_coding	chr1	1657375	1657485	-	1
## 3580	protein_coding	chr1	1657483	1657485	-	1
## 3581	protein_coding	chr1	1655369	1655484	-	1
## 3582	protein_coding	chr1	1655369	1655484	-	1
## 3583	protein_coding	chr1	1646111	1646178	-	1
## 3584	protein_coding	chr1	1646111	1646178	-	1
## 3585	protein_coding	chr1	1645953	1645969	-	1
## 3586	protein_coding	chr1	1645953	1645969	-	1
## 3587	protein_coding	chr1	1645773	1645866	-	1
## 3588	protein_coding	chr1	1645773	1645866	-	1
## 3589	protein_coding	chr1	1645460	1645508	-	1
## 3590	protein_coding	chr1	1645460	1645508	-	1
## 3591	protein_coding	chr1	1645126	1645304	-	1
## 3592	protein_coding	chr1	1645126	1645304	-	1
## 3593	protein_coding	chr1	1642386	1642508	-	1
## 3594	protein_coding	chr1	1642386	1642508	-	1
## 3595	protein_coding	chr1	1641906	1642001	-	1
## 3596	protein_coding	chr1	1641906	1642001	-	1
## 3597	protein_coding	chr1	1641662	1641820	-	1
## 3598	protein_coding	chr1	1641662	1641820	-	1
## 3599	protein_coding	chr1	1641048	1641113	-	1
## 3600	protein_coding	chr1	1641048	1641113	-	1
## 3601	protein_coding	chr1	1640277	1640452	-	1
## 3602	protein_coding	chr1	1640277	1640452	-	1
## 3603	protein_coding	chr1	1638500	1638590	-	1
## 3604	protein_coding	chr1	1638500	1638590	-	1
## 3605	protein_coding	chr1	1637762	1637883	-	1
## 3606	protein_coding	chr1	1637762	1637883	-	1
## 3607	protein_coding	chr1	1637408	1637513	-	1

## 3608	protein_coding	chr1	1637408	1637513	-	1
## 3609	protein_coding	chr1	1637081	1637202	-	1
## 3610	protein_coding	chr1	1637081	1637202	-	1
## 3611	protein_coding	chr1	1636897	1637004	-	1
## 3612	protein_coding	chr1	1636897	1637004	-	1
## 3613	protein_coding	chr1	1636682	1636798	-	1
## 3614	protein_coding	chr1	1636682	1636798	-	1
## 3615	protein_coding	chr1	1636333	1636481	-	1
## 3616	protein_coding	chr1	1636333	1636481	-	1
## 3617	protein_coding	chr1	1635937	1636126	-	1
## 3618	protein_coding	chr1	1635937	1636126	-	1
## 3619	protein_coding	chr1	1635738	1635856	-	1
## 3620	protein_coding	chr1	1635767	1635856	-	1
## 3621	protein_coding	chr1	1635764	1635766	-	1
## 3622	protein_coding	chr1	1658914	1659012	-	1
## 3623	protein_coding	chr1	1657486	1657498	-	1
## 3624	protein_coding	chr1	1635738	1635766	-	1
## 3625	protein_coding	chr1	1635738	1659012	-	1
## 3626	protein_coding	chr1	1658914	1659012	-	1
## 3627	protein_coding	chr1	1657375	1657498	-	1
## 3628	protein_coding	chr1	1657375	1657485	-	1
## 3629	protein_coding	chr1	1657483	1657485	-	1
## 3630	protein_coding	chr1	1655369	1655484	-	1
## 3631	protein_coding	chr1	1655369	1655484	-	1
## 3632	protein_coding	chr1	1646126	1646143	-	1
## 3633	protein_coding	chr1	1646126	1646143	-	1
## 3634	protein_coding	chr1	1645773	1645884	-	1
## 3635	protein_coding	chr1	1645773	1645884	-	1
## 3636	protein_coding	chr1	1645579	1645643	-	1
## 3637	protein_coding	chr1	1645579	1645643	-	1
## 3638	protein_coding	chr1	1645126	1645304	-	1
## 3639	protein_coding	chr1	1645126	1645304	-	1
## 3640	protein_coding	chr1	1642386	1642508	-	1
## 3641	protein_coding	chr1	1642386	1642508	-	1
## 3642	protein_coding	chr1	1641906	1642001	-	1
## 3643	protein_coding	chr1	1641906	1642001	-	1
## 3644	protein_coding	chr1	1641662	1641820	-	1
## 3645	protein_coding	chr1	1641662	1641820	-	1
## 3646	protein_coding	chr1	1641048	1641113	-	1
## 3647	protein_coding	chr1	1641048	1641113	-	1
## 3648	protein_coding	chr1	1640277	1640452	-	1
## 3649	protein_coding	chr1	1640277	1640452	-	1
## 3650	protein_coding	chr1	1638500	1638590	-	1
## 3651	protein_coding	chr1	1638500	1638590	-	1
## 3652	protein_coding	chr1	1637762	1637883	-	1
## 3653	protein_coding	chr1	1637762	1637883	-	1
## 3654	protein_coding	chr1	1637408	1637513	-	1
## 3655	protein_coding	chr1	1637408	1637513	-	1
## 3656	protein_coding	chr1	1637081	1637202	-	1
## 3657	protein_coding	chr1	1637081	1637202	-	1
## 3658	protein_coding	chr1	1636897	1637004	-	1
## 3659	protein_coding	chr1	1636897	1637004	-	1
## 3660	protein_coding	chr1	1636682	1636798	-	1
## 3661	protein_coding	chr1	1636682	1636798	-	1

## 3662	protein_coding	chr1	1636333	1636481	-	1
## 3663	protein_coding	chr1	1636333	1636481	-	1
## 3664	protein_coding	chr1	1635937	1636126	-	1
## 3665	protein_coding	chr1	1635937	1636126	-	1
## 3666	protein_coding	chr1	1635738	1635856	-	1
## 3667	protein_coding	chr1	1635767	1635856	-	1
## 3668	protein_coding	chr1	1635764	1635766	-	1
## 3669	protein_coding	chr1	1658914	1659012	-	1
## 3670	protein_coding	chr1	1657486	1657498	-	1
## 3671	protein_coding	chr1	1635738	1635766	-	1
## 3672	protein_coding	chr1	1635738	1659012	-	1
## 3673	protein_coding	chr1	1658914	1659012	-	1
## 3674	protein_coding	chr1	1657375	1657498	-	1
## 3675	protein_coding	chr1	1657375	1657485	-	1
## 3676	protein_coding	chr1	1657483	1657485	-	1
## 3677	protein_coding	chr1	1655369	1655484	-	1
## 3678	protein_coding	chr1	1655369	1655484	-	1
## 3679	protein_coding	chr1	1645998	1646048	-	1
## 3680	protein_coding	chr1	1645998	1646048	-	1
## 3681	protein_coding	chr1	1645773	1645884	-	1
## 3682	protein_coding	chr1	1645773	1645884	-	1
## 3683	protein_coding	chr1	1645611	1645643	-	1
## 3684	protein_coding	chr1	1645611	1645643	-	1
## 3685	protein_coding	chr1	1645460	1645497	-	1
## 3686	protein_coding	chr1	1645460	1645497	-	1
## 3687	protein_coding	chr1	1645126	1645304	-	1
## 3688	protein_coding	chr1	1645126	1645304	-	1
## 3689	protein_coding	chr1	1642386	1642508	-	1
## 3690	protein_coding	chr1	1642386	1642508	-	1
## 3691	protein_coding	chr1	1641906	1642001	-	1
## 3692	protein_coding	chr1	1641906	1642001	-	1
## 3693	protein_coding	chr1	1641662	1641820	-	1
## 3694	protein_coding	chr1	1641662	1641820	-	1
## 3695	protein_coding	chr1	1641048	1641113	-	1
## 3696	protein_coding	chr1	1641048	1641113	-	1
## 3697	protein_coding	chr1	1640277	1640452	-	1
## 3698	protein_coding	chr1	1640277	1640452	-	1
## 3699	protein_coding	chr1	1638500	1638590	-	1
## 3700	protein_coding	chr1	1638500	1638590	-	1
## 3701	protein_coding	chr1	1637762	1637883	-	1
## 3702	protein_coding	chr1	1637762	1637883	-	1
## 3703	protein_coding	chr1	1637408	1637513	-	1
## 3704	protein_coding	chr1	1637408	1637513	-	1
## 3705	protein_coding	chr1	1637081	1637202	-	1
## 3706	protein_coding	chr1	1637081	1637202	-	1
## 3707	protein_coding	chr1	1636897	1637004	-	1
## 3708	protein_coding	chr1	1636897	1637004	-	1
## 3709	protein_coding	chr1	1636682	1636798	-	1
## 3710	protein_coding	chr1	1636682	1636798	-	1
## 3711	protein_coding	chr1	1636333	1636481	-	1
## 3712	protein_coding	chr1	1636333	1636481	-	1
## 3713	protein_coding	chr1	1635937	1636126	-	1
## 3714	protein_coding	chr1	1635937	1636126	-	1
## 3715	protein_coding	chr1	1635738	1635856	-	1

## 3716	protein_coding	chr1	1635767	1635856	-	1
## 3717	protein_coding	chr1	1635764	1635766	-	1
## 3718	protein_coding	chr1	1658914	1659012	-	1
## 3719	protein_coding	chr1	1657486	1657498	-	1
## 3720	protein_coding	chr1	1635738	1635766	-	1
## 3721	lncRNA	chr1	1659325	1662602	+	0
## 3722	lncRNA	chr1	1659325	1662602	+	0
## 3723	lncRNA	chr1	1659325	1659452	+	0
## 3724	lncRNA	chr1	1662331	1662602	+	0
## 3725	protein_coding	chr1	1659529	1692728	-	1
## 3726	protein_coding	chr1	1659529	1692724	-	1
## 3727	protein_coding	chr1	1692449	1692724	-	1
## 3728	protein_coding	chr1	1690976	1691393	-	1
## 3729	protein_coding	chr1	1676378	1676846	-	1
## 3730	protein_coding	chr1	1676378	1676699	-	1
## 3731	protein_coding	chr1	1676697	1676699	-	1
## 3732	protein_coding	chr1	1676064	1676199	-	1
## 3733	protein_coding	chr1	1676064	1676199	-	1
## 3734	protein_coding	chr1	1675463	1675590	-	1
## 3735	protein_coding	chr1	1675463	1675590	-	1
## 3736	protein_coding	chr1	1668327	1668472	-	1
## 3737	protein_coding	chr1	1668327	1668472	-	1
## 3738	protein_coding	chr1	1659529	1660111	-	1
## 3739	protein_coding	chr1	1660106	1660111	-	1
## 3740	protein_coding	chr1	1660103	1660105	-	1
## 3741	protein_coding	chr1	1692449	1692724	-	1
## 3742	protein_coding	chr1	1690976	1691393	-	1
## 3743	protein_coding	chr1	1676700	1676846	-	1
## 3744	protein_coding	chr1	1659529	1660105	-	1
## 3745	protein_coding	chr1	1661478	1692644	-	1
## 3746	protein_coding	chr1	1692449	1692644	-	1
## 3747	protein_coding	chr1	1690976	1691393	-	1
## 3748	protein_coding	chr1	1676378	1676846	-	1
## 3749	protein_coding	chr1	1676378	1676699	-	1
## 3750	protein_coding	chr1	1676697	1676699	-	1
## 3751	protein_coding	chr1	1676064	1676199	-	1
## 3752	protein_coding	chr1	1676064	1676199	-	1
## 3753	protein_coding	chr1	1675463	1675590	-	1
## 3754	protein_coding	chr1	1675463	1675590	-	1
## 3755	protein_coding	chr1	1671509	1671629	-	1
## 3756	protein_coding	chr1	1671509	1671629	-	1
## 3757	protein_coding	chr1	1670098	1670151	-	1
## 3758	protein_coding	chr1	1670098	1670151	-	1
## 3759	protein_coding	chr1	1669664	1669736	-	1
## 3760	protein_coding	chr1	1669664	1669736	-	1
## 3761	protein_coding	chr1	1668327	1668472	-	1
## 3762	protein_coding	chr1	1668327	1668472	-	1
## 3763	protein_coding	chr1	1661478	1666019	-	1
## 3764	protein_coding	chr1	1665785	1666019	-	1
## 3765	protein_coding	chr1	1665782	1665784	-	1
## 3766	protein_coding	chr1	1692449	1692644	-	1
## 3767	protein_coding	chr1	1690976	1691393	-	1
## 3768	protein_coding	chr1	1676700	1676846	-	1
## 3769	protein_coding	chr1	1661478	1665784	-	1

## 3770	protein_coding	chr1 1661479 1692728	-	1
## 3771	protein_coding	chr1 1692449 1692728	-	1
## 3772	protein_coding	chr1 1676378 1676846	-	1
## 3773	protein_coding	chr1 1676378 1676699	-	1
## 3774	protein_coding	chr1 1676697 1676699	-	1
## 3775	protein_coding	chr1 1676064 1676199	-	1
## 3776	protein_coding	chr1 1676064 1676199	-	1
## 3777	protein_coding	chr1 1675463 1675590	-	1
## 3778	protein_coding	chr1 1675463 1675590	-	1
## 3779	protein_coding	chr1 1671509 1671629	-	1
## 3780	protein_coding	chr1 1671509 1671629	-	1
## 3781	protein_coding	chr1 1670098 1670151	-	1
## 3782	protein_coding	chr1 1670098 1670151	-	1
## 3783	protein_coding	chr1 1669664 1669736	-	1
## 3784	protein_coding	chr1 1669664 1669736	-	1
## 3785	protein_coding	chr1 1668327 1668472	-	1
## 3786	protein_coding	chr1 1668327 1668472	-	1
## 3787	protein_coding	chr1 1661479 1666019	-	1
## 3788	protein_coding	chr1 1665785 1666019	-	1
## 3789	protein_coding	chr1 1665782 1665784	-	1
## 3790	protein_coding	chr1 1692449 1692728	-	1
## 3791	protein_coding	chr1 1676700 1676846	-	1
## 3792	protein_coding	chr1 1661479 1665784	-	1
## 3793	transcribed_processed_pseudogene	chr1 1671990 1674397	+	0
## 3794	transcribed_processed_pseudogene	chr1 1671990 1673411	+	0
## 3795	transcribed_processed_pseudogene	chr1 1671990 1673411	+	0
## 3796	transcribed_processed_pseudogene	chr1 1673275 1674397	+	0
## 3797	transcribed_processed_pseudogene	chr1 1673275 1673379	+	0
## 3798	transcribed_processed_pseudogene	chr1 1674001 1674397	+	0
## 3799	unprocessed_pseudogene	chr1 1699942 1701782	+	1
## 3800	unprocessed_pseudogene	chr1 1699942 1701782	+	1
## 3801	unprocessed_pseudogene	chr1 1699942 1700072	+	1
## 3802	unprocessed_pseudogene	chr1 1700140 1700279	+	1
## 3803	unprocessed_pseudogene	chr1 1700347 1700514	+	1
## 3804	unprocessed_pseudogene	chr1 1700907 1701071	+	1
## 3805	unprocessed_pseudogene	chr1 1701148 1701258	+	1
## 3806	unprocessed_pseudogene	chr1 1701361 1701487	+	1
## 3807	unprocessed_pseudogene	chr1 1701608 1701782	+	1
## 3808	protein_coding	chr1 1702379 1724357	-	1
## 3809	protein_coding	chr1 1702379 1724357	-	1
## 3810	protein_coding	chr1 1724258 1724357	-	1
## 3811	protein_coding	chr1 1722708 1722831	-	1
## 3812	protein_coding	chr1 1722708 1722818	-	1
## 3813	protein_coding	chr1 1722816 1722818	-	1
## 3814	protein_coding	chr1 1721596 1721711	-	1
## 3815	protein_coding	chr1 1721596 1721711	-	1
## 3816	protein_coding	chr1 1719328 1719455	-	1
## 3817	protein_coding	chr1 1719328 1719455	-	1
## 3818	protein_coding	chr1 1716346 1716478	-	1
## 3819	protein_coding	chr1 1716346 1716478	-	1
## 3820	protein_coding	chr1 1712264 1712400	-	1
## 3821	protein_coding	chr1 1712264 1712400	-	1
## 3822	protein_coding	chr1 1709518 1709640	-	1
## 3823	protein_coding	chr1 1709518 1709640	-	1

## 3824	protein_coding	chr1	1709038	1709133	-	1
## 3825	protein_coding	chr1	1709038	1709133	-	1
## 3826	protein_coding	chr1	1708794	1708952	-	1
## 3827	protein_coding	chr1	1708794	1708952	-	1
## 3828	protein_coding	chr1	1708180	1708245	-	1
## 3829	protein_coding	chr1	1708180	1708245	-	1
## 3830	protein_coding	chr1	1707409	1707584	-	1
## 3831	protein_coding	chr1	1707409	1707584	-	1
## 3832	protein_coding	chr1	1705642	1705732	-	1
## 3833	protein_coding	chr1	1705642	1705732	-	1
## 3834	protein_coding	chr1	1704904	1705025	-	1
## 3835	protein_coding	chr1	1704904	1705025	-	1
## 3836	protein_coding	chr1	1704550	1704655	-	1
## 3837	protein_coding	chr1	1704550	1704655	-	1
## 3838	protein_coding	chr1	1704223	1704344	-	1
## 3839	protein_coding	chr1	1704223	1704344	-	1
## 3840	protein_coding	chr1	1704039	1704146	-	1
## 3841	protein_coding	chr1	1704039	1704146	-	1
## 3842	protein_coding	chr1	1703824	1703940	-	1
## 3843	protein_coding	chr1	1703824	1703940	-	1
## 3844	protein_coding	chr1	1703476	1703624	-	1
## 3845	protein_coding	chr1	1703476	1703624	-	1
## 3846	protein_coding	chr1	1703080	1703269	-	1
## 3847	protein_coding	chr1	1703080	1703269	-	1
## 3848	protein_coding	chr1	1702379	1702999	-	1
## 3849	protein_coding	chr1	1702910	1702999	-	1
## 3850	protein_coding	chr1	1702907	1702909	-	1
## 3851	protein_coding	chr1	1724258	1724357	-	1
## 3852	protein_coding	chr1	1722819	1722831	-	1
## 3853	protein_coding	chr1	1702379	1702909	-	1
## 3854	protein_coding	chr1	1702730	1722831	-	1
## 3855	protein_coding	chr1	1722588	1722831	-	1
## 3856	protein_coding	chr1	1722588	1722596	-	1
## 3857	protein_coding	chr1	1722594	1722596	-	1
## 3858	protein_coding	chr1	1721596	1721711	-	1
## 3859	protein_coding	chr1	1721596	1721711	-	1
## 3860	protein_coding	chr1	1719328	1719455	-	1
## 3861	protein_coding	chr1	1719328	1719455	-	1
## 3862	protein_coding	chr1	1716346	1716478	-	1
## 3863	protein_coding	chr1	1716346	1716478	-	1
## 3864	protein_coding	chr1	1712264	1712400	-	1
## 3865	protein_coding	chr1	1712264	1712400	-	1
## 3866	protein_coding	chr1	1709518	1709640	-	1
## 3867	protein_coding	chr1	1709518	1709640	-	1
## 3868	protein_coding	chr1	1709038	1709133	-	1
## 3869	protein_coding	chr1	1709038	1709133	-	1
## 3870	protein_coding	chr1	1708794	1708952	-	1
## 3871	protein_coding	chr1	1708794	1708952	-	1
## 3872	protein_coding	chr1	1708180	1708245	-	1
## 3873	protein_coding	chr1	1708180	1708245	-	1
## 3874	protein_coding	chr1	1707409	1707584	-	1
## 3875	protein_coding	chr1	1707409	1707584	-	1
## 3876	protein_coding	chr1	1705642	1705732	-	1
## 3877	protein_coding	chr1	1705642	1705732	-	1

## 3878	protein_coding	chr1	1704904	1705025	-	1
## 3879	protein_coding	chr1	1704904	1705025	-	1
## 3880	protein_coding	chr1	1704550	1704655	-	1
## 3881	protein_coding	chr1	1704550	1704655	-	1
## 3882	protein_coding	chr1	1704223	1704344	-	1
## 3883	protein_coding	chr1	1704223	1704344	-	1
## 3884	protein_coding	chr1	1704039	1704146	-	1
## 3885	protein_coding	chr1	1704039	1704146	-	1
## 3886	protein_coding	chr1	1703824	1703940	-	1
## 3887	protein_coding	chr1	1703824	1703940	-	1
## 3888	protein_coding	chr1	1703476	1703624	-	1
## 3889	protein_coding	chr1	1703476	1703624	-	1
## 3890	protein_coding	chr1	1703080	1703269	-	1
## 3891	protein_coding	chr1	1703080	1703269	-	1
## 3892	protein_coding	chr1	1702730	1702999	-	1
## 3893	protein_coding	chr1	1702910	1702999	-	1
## 3894	protein_coding	chr1	1702907	1702909	-	1
## 3895	protein_coding	chr1	1722597	1722831	-	1
## 3896	protein_coding	chr1	1702730	1702909	-	1
## 3897	protein_coding	chr1	1702881	1722831	-	1
## 3898	protein_coding	chr1	1722708	1722831	-	1
## 3899	protein_coding	chr1	1722588	1722634	-	1
## 3900	protein_coding	chr1	1722588	1722596	-	1
## 3901	protein_coding	chr1	1722594	1722596	-	1
## 3902	protein_coding	chr1	1721596	1721711	-	1
## 3903	protein_coding	chr1	1721596	1721711	-	1
## 3904	protein_coding	chr1	1719328	1719455	-	1
## 3905	protein_coding	chr1	1719328	1719455	-	1
## 3906	protein_coding	chr1	1716346	1716478	-	1
## 3907	protein_coding	chr1	1716346	1716478	-	1
## 3908	protein_coding	chr1	1712264	1712400	-	1
## 3909	protein_coding	chr1	1712264	1712400	-	1
## 3910	protein_coding	chr1	1709518	1709640	-	1
## 3911	protein_coding	chr1	1709518	1709640	-	1
## 3912	protein_coding	chr1	1709038	1709133	-	1
## 3913	protein_coding	chr1	1709038	1709133	-	1
## 3914	protein_coding	chr1	1708794	1708952	-	1
## 3915	protein_coding	chr1	1708794	1708952	-	1
## 3916	protein_coding	chr1	1708180	1708245	-	1
## 3917	protein_coding	chr1	1708180	1708245	-	1
## 3918	protein_coding	chr1	1707409	1707584	-	1
## 3919	protein_coding	chr1	1707409	1707584	-	1
## 3920	protein_coding	chr1	1705642	1705732	-	1
## 3921	protein_coding	chr1	1705642	1705732	-	1
## 3922	protein_coding	chr1	1704904	1705025	-	1
## 3923	protein_coding	chr1	1704904	1705025	-	1
## 3924	protein_coding	chr1	1704550	1704655	-	1
## 3925	protein_coding	chr1	1704550	1704655	-	1
## 3926	protein_coding	chr1	1704223	1704344	-	1
## 3927	protein_coding	chr1	1704223	1704344	-	1
## 3928	protein_coding	chr1	1704039	1704146	-	1
## 3929	protein_coding	chr1	1704039	1704146	-	1
## 3930	protein_coding	chr1	1703824	1703940	-	1
## 3931	protein_coding	chr1	1703824	1703940	-	1

## 3932	protein_coding	chr1	1703476	1703624	-	1
## 3933	protein_coding	chr1	1703476	1703624	-	1
## 3934	protein_coding	chr1	1703080	1703269	-	1
## 3935	protein_coding	chr1	1703080	1703269	-	1
## 3936	protein_coding	chr1	1702881	1702999	-	1
## 3937	protein_coding	chr1	1702910	1702999	-	1
## 3938	protein_coding	chr1	1702907	1702909	-	1
## 3939	protein_coding	chr1	1722708	1722831	-	1
## 3940	protein_coding	chr1	1722597	1722634	-	1
## 3941	protein_coding	chr1	1702881	1702909	-	1
## 3942	protein_coding	chr1	1702881	1724324	-	1
## 3943	protein_coding	chr1	1724258	1724324	-	1
## 3944	protein_coding	chr1	1722708	1722831	-	1
## 3945	protein_coding	chr1	1722708	1722818	-	1
## 3946	protein_coding	chr1	1722816	1722818	-	1
## 3947	protein_coding	chr1	1721596	1721711	-	1
## 3948	protein_coding	chr1	1721596	1721711	-	1
## 3949	protein_coding	chr1	1719358	1719455	-	1
## 3950	protein_coding	chr1	1719358	1719455	-	1
## 3951	protein_coding	chr1	1716346	1716478	-	1
## 3952	protein_coding	chr1	1716346	1716478	-	1
## 3953	protein_coding	chr1	1712264	1712427	-	1
## 3954	protein_coding	chr1	1712264	1712427	-	1
## 3955	protein_coding	chr1	1709518	1709640	-	1
## 3956	protein_coding	chr1	1709518	1709640	-	1
## 3957	protein_coding	chr1	1709038	1709133	-	1
## 3958	protein_coding	chr1	1709038	1709133	-	1
## 3959	protein_coding	chr1	1708794	1708952	-	1
## 3960	protein_coding	chr1	1708794	1708952	-	1
## 3961	protein_coding	chr1	1708180	1708245	-	1
## 3962	protein_coding	chr1	1708180	1708245	-	1
## 3963	protein_coding	chr1	1707409	1707584	-	1
## 3964	protein_coding	chr1	1707409	1707584	-	1
## 3965	protein_coding	chr1	1705642	1705732	-	1
## 3966	protein_coding	chr1	1705642	1705732	-	1
## 3967	protein_coding	chr1	1704904	1705025	-	1
## 3968	protein_coding	chr1	1704904	1705025	-	1
## 3969	protein_coding	chr1	1704550	1704655	-	1
## 3970	protein_coding	chr1	1704550	1704655	-	1
## 3971	protein_coding	chr1	1704223	1704344	-	1
## 3972	protein_coding	chr1	1704223	1704344	-	1
## 3973	protein_coding	chr1	1704039	1704146	-	1
## 3974	protein_coding	chr1	1704039	1704146	-	1
## 3975	protein_coding	chr1	1703824	1703940	-	1
## 3976	protein_coding	chr1	1703824	1703940	-	1
## 3977	protein_coding	chr1	1703476	1703624	-	1
## 3978	protein_coding	chr1	1703476	1703624	-	1
## 3979	protein_coding	chr1	1703080	1703269	-	1
## 3980	protein_coding	chr1	1703080	1703269	-	1
## 3981	protein_coding	chr1	1702881	1702999	-	1
## 3982	protein_coding	chr1	1702910	1702999	-	1
## 3983	protein_coding	chr1	1702907	1702909	-	1
## 3984	protein_coding	chr1	1724258	1724324	-	1
## 3985	protein_coding	chr1	1722819	1722831	-	1

## 3986	protein_coding	chr1	1702881	1702909	-	1
## 3987	protein_coding	chr1	1702881	1724324	-	1
## 3988	protein_coding	chr1	1724258	1724324	-	1
## 3989	protein_coding	chr1	1722708	1722831	-	1
## 3990	protein_coding	chr1	1722708	1722818	-	1
## 3991	protein_coding	chr1	1722816	1722818	-	1
## 3992	protein_coding	chr1	1721596	1721711	-	1
## 3993	protein_coding	chr1	1721596	1721711	-	1
## 3994	protein_coding	chr1	1719358	1719455	-	1
## 3995	protein_coding	chr1	1719358	1719455	-	1
## 3996	protein_coding	chr1	1716346	1716478	-	1
## 3997	protein_coding	chr1	1716346	1716478	-	1
## 3998	protein_coding	chr1	1712264	1712400	-	1
## 3999	protein_coding	chr1	1712264	1712400	-	1
## 4000	protein_coding	chr1	1709518	1709640	-	1
## 4001	protein_coding	chr1	1709518	1709640	-	1
## 4002	protein_coding	chr1	1709038	1709133	-	1
## 4003	protein_coding	chr1	1709038	1709133	-	1
## 4004	protein_coding	chr1	1708794	1708952	-	1
## 4005	protein_coding	chr1	1708794	1708952	-	1
## 4006	protein_coding	chr1	1708180	1708245	-	1
## 4007	protein_coding	chr1	1708180	1708245	-	1
## 4008	protein_coding	chr1	1707409	1707584	-	1
## 4009	protein_coding	chr1	1707409	1707584	-	1
## 4010	protein_coding	chr1	1705642	1705732	-	1
## 4011	protein_coding	chr1	1705642	1705732	-	1
## 4012	protein_coding	chr1	1704904	1705025	-	1
## 4013	protein_coding	chr1	1704904	1705025	-	1
## 4014	protein_coding	chr1	1704550	1704655	-	1
## 4015	protein_coding	chr1	1704550	1704655	-	1
## 4016	protein_coding	chr1	1704223	1704344	-	1
## 4017	protein_coding	chr1	1704223	1704344	-	1
## 4018	protein_coding	chr1	1704039	1704146	-	1
## 4019	protein_coding	chr1	1704039	1704146	-	1
## 4020	protein_coding	chr1	1703824	1703940	-	1
## 4021	protein_coding	chr1	1703824	1703940	-	1
## 4022	protein_coding	chr1	1703476	1703624	-	1
## 4023	protein_coding	chr1	1703476	1703624	-	1
## 4024	protein_coding	chr1	1703080	1703269	-	1
## 4025	protein_coding	chr1	1703080	1703269	-	1
## 4026	protein_coding	chr1	1702881	1702999	-	1
## 4027	protein_coding	chr1	1702910	1702999	-	1
## 4028	protein_coding	chr1	1702907	1702909	-	1
## 4029	protein_coding	chr1	1724258	1724324	-	1
## 4030	protein_coding	chr1	1722819	1722831	-	1
## 4031	protein_coding	chr1	1702881	1702909	-	1
## 4032	protein_coding	chr1	1702881	1724324	-	1
## 4033	protein_coding	chr1	1724258	1724324	-	1
## 4034	protein_coding	chr1	1722708	1722831	-	1
## 4035	protein_coding	chr1	1722708	1722818	-	1
## 4036	protein_coding	chr1	1722816	1722818	-	1
## 4037	protein_coding	chr1	1721596	1721711	-	1
## 4038	protein_coding	chr1	1721596	1721711	-	1
## 4039	protein_coding	chr1	1719358	1719455	-	1

## 4040	protein_coding	chr1	1719358	1719455	-	1
## 4041	protein_coding	chr1	1716346	1716478	-	1
## 4042	protein_coding	chr1	1716346	1716478	-	1
## 4043	protein_coding	chr1	1712264	1712400	-	1
## 4044	protein_coding	chr1	1712264	1712400	-	1
## 4045	protein_coding	chr1	1709479	1709640	-	1
## 4046	protein_coding	chr1	1709479	1709640	-	1
## 4047	protein_coding	chr1	1709038	1709133	-	1
## 4048	protein_coding	chr1	1709038	1709133	-	1
## 4049	protein_coding	chr1	1708794	1708952	-	1
## 4050	protein_coding	chr1	1708794	1708952	-	1
## 4051	protein_coding	chr1	1708180	1708245	-	1
## 4052	protein_coding	chr1	1708180	1708245	-	1
## 4053	protein_coding	chr1	1707409	1707584	-	1
## 4054	protein_coding	chr1	1707409	1707584	-	1
## 4055	protein_coding	chr1	1705642	1705732	-	1
## 4056	protein_coding	chr1	1705642	1705732	-	1
## 4057	protein_coding	chr1	1704904	1705025	-	1
## 4058	protein_coding	chr1	1704904	1705025	-	1
## 4059	protein_coding	chr1	1704550	1704655	-	1
## 4060	protein_coding	chr1	1704550	1704655	-	1
## 4061	protein_coding	chr1	1704223	1704344	-	1
## 4062	protein_coding	chr1	1704223	1704344	-	1
## 4063	protein_coding	chr1	1704039	1704146	-	1
## 4064	protein_coding	chr1	1704039	1704146	-	1
## 4065	protein_coding	chr1	1703824	1703940	-	1
## 4066	protein_coding	chr1	1703824	1703940	-	1
## 4067	protein_coding	chr1	1703476	1703624	-	1
## 4068	protein_coding	chr1	1703476	1703624	-	1
## 4069	protein_coding	chr1	1703080	1703269	-	1
## 4070	protein_coding	chr1	1703080	1703269	-	1
## 4071	protein_coding	chr1	1702881	1702999	-	1
## 4072	protein_coding	chr1	1702910	1702999	-	1
## 4073	protein_coding	chr1	1702907	1702909	-	1
## 4074	protein_coding	chr1	1724258	1724324	-	1
## 4075	protein_coding	chr1	1722819	1722831	-	1
## 4076	protein_coding	chr1	1702881	1702909	-	1
## 4077	lncRNA	chr1	1702736	1737688	-	0
## 4078	lncRNA	chr1	1702736	1737688	-	0
## 4079	lncRNA	chr1	1735204	1737688	-	0
## 4080	lncRNA	chr1	1734690	1734835	-	0
## 4081	lncRNA	chr1	1722588	1722831	-	0
## 4082	lncRNA	chr1	1721596	1721711	-	0
## 4083	lncRNA	chr1	1719358	1719455	-	0
## 4084	lncRNA	chr1	1716346	1716478	-	0
## 4085	lncRNA	chr1	1712264	1712400	-	0
## 4086	lncRNA	chr1	1709518	1709640	-	0
## 4087	lncRNA	chr1	1709038	1709133	-	0
## 4088	lncRNA	chr1	1708794	1708952	-	0
## 4089	lncRNA	chr1	1708180	1708245	-	0
## 4090	lncRNA	chr1	1707525	1707584	-	0
## 4091	lncRNA	chr1	1705642	1705732	-	0
## 4092	lncRNA	chr1	1704904	1705025	-	0
## 4093	lncRNA	chr1	1704550	1704655	-	0

## 4094	lncRNA	chr1	1704223	1704344	-	0
## 4095	lncRNA	chr1	1703824	1703995	-	0
## 4096	lncRNA	chr1	1703476	1703624	-	0
## 4097	lncRNA	chr1	1703080	1703269	-	0
## 4098	lncRNA	chr1	1702736	1702999	-	0
## 4099	transcribed_processed_pseudogene	chr1	1724512	1737251	+	0
## 4100	transcribed_processed_pseudogene	chr1	1724512	1735973	+	0
## 4101	transcribed_processed_pseudogene	chr1	1724512	1724763	+	0
## 4102	transcribed_processed_pseudogene	chr1	1735817	1735973	+	0
## 4103	transcribed_processed_pseudogene	chr1	1735817	1737251	+	0
## 4104	transcribed_processed_pseudogene	chr1	1735817	1735915	+	0
## 4105	transcribed_processed_pseudogene	chr1	1736854	1737251	+	0
## 4106	protein_coding	chr1	1724838	1745999	-	1
## 4107	protein_coding	chr1	1724840	1745999	-	1
## 4108	protein_coding	chr1	1745724	1745999	-	1
## 4109	protein_coding	chr1	1744251	1744668	-	1
## 4110	protein_coding	chr1	1739236	1739704	-	1
## 4111	protein_coding	chr1	1739236	1739557	-	1
## 4112	protein_coding	chr1	1739555	1739557	-	1
## 4113	protein_coding	chr1	1738922	1739057	-	1
## 4114	protein_coding	chr1	1738922	1739057	-	1
## 4115	protein_coding	chr1	1738321	1738448	-	1
## 4116	protein_coding	chr1	1738321	1738448	-	1
## 4117	protein_coding	chr1	1734690	1734835	-	1
## 4118	protein_coding	chr1	1734690	1734835	-	1
## 4119	protein_coding	chr1	1724840	1725422	-	1
## 4120	protein_coding	chr1	1725417	1725422	-	1
## 4121	protein_coding	chr1	1725414	1725416	-	1
## 4122	protein_coding	chr1	1745724	1745999	-	1
## 4123	protein_coding	chr1	1744251	1744668	-	1
## 4124	protein_coding	chr1	1739558	1739704	-	1
## 4125	protein_coding	chr1	1724840	1725416	-	1
## 4126	protein_coding	chr1	1727386	1745999	-	1
## 4127	protein_coding	chr1	1745724	1745999	-	1
## 4128	protein_coding	chr1	1739236	1739704	-	1
## 4129	protein_coding	chr1	1739236	1739557	-	1
## 4130	protein_coding	chr1	1739555	1739557	-	1
## 4131	protein_coding	chr1	1738922	1739057	-	1
## 4132	protein_coding	chr1	1738922	1739057	-	1
## 4133	protein_coding	chr1	1738321	1738448	-	1
## 4134	protein_coding	chr1	1738321	1738448	-	1
## 4135	protein_coding	chr1	1734690	1734835	-	1
## 4136	protein_coding	chr1	1734690	1734835	-	1
## 4137	protein_coding	chr1	1727386	1732523	-	1
## 4138	protein_coding	chr1	1732458	1732523	-	1
## 4139	protein_coding	chr1	1732455	1732457	-	1
## 4140	protein_coding	chr1	1745724	1745999	-	1
## 4141	protein_coding	chr1	1739558	1739704	-	1
## 4142	protein_coding	chr1	1727386	1732457	-	1
## 4143	protein_coding	chr1	1751232	1780457	-	1
## 4144	protein_coding	chr1	1751232	1778470	-	1
## 4145	protein_coding	chr1	1778289	1778470	-	1
## 4146	protein_coding	chr1	1765228	1765446	-	1
## 4147	protein_coding	chr1	1765228	1765406	-	1

## 4148	protein_coding	chr1	1765404	1765406	-	1
## 4149	protein_coding	chr1	1761952	1762035	-	1
## 4150	protein_coding	chr1	1761952	1762035	-	1
## 4151	protein_coding	chr1	1757181	1757310	-	1
## 4152	protein_coding	chr1	1757181	1757310	-	1
## 4153	protein_coding	chr1	1756503	1756608	-	1
## 4154	protein_coding	chr1	1756503	1756608	-	1
## 4155	protein_coding	chr1	1756258	1756343	-	1
## 4156	protein_coding	chr1	1756258	1756343	-	1
## 4157	protein_coding	chr1	1755374	1755476	-	1
## 4158	protein_coding	chr1	1755374	1755476	-	1
## 4159	protein_coding	chr1	1754544	1754698	-	1
## 4160	protein_coding	chr1	1754544	1754698	-	1
## 4161	protein_coding	chr1	1754284	1754383	-	1
## 4162	protein_coding	chr1	1754284	1754383	-	1
## 4163	protein_coding	chr1	1754051	1754208	-	1
## 4164	protein_coding	chr1	1754051	1754208	-	1
## 4165	protein_coding	chr1	1753567	1753649	-	1
## 4166	protein_coding	chr1	1753567	1753649	-	1
## 4167	protein_coding	chr1	1751232	1753060	-	1
## 4168	protein_coding	chr1	1752907	1753060	-	1
## 4169	protein_coding	chr1	1752904	1752906	-	1
## 4170	protein_coding	chr1	1778289	1778470	-	1
## 4171	protein_coding	chr1	1765407	1765446	-	1
## 4172	protein_coding	chr1	1751232	1752906	-	1
## 4173	protein_coding	chr1	1751232	1778790	-	1
## 4174	protein_coding	chr1	1778746	1778790	-	1
## 4175	protein_coding	chr1	1765228	1765446	-	1
## 4176	protein_coding	chr1	1765228	1765406	-	1
## 4177	protein_coding	chr1	1765404	1765406	-	1
## 4178	protein_coding	chr1	1761952	1762035	-	1
## 4179	protein_coding	chr1	1761952	1762035	-	1
## 4180	protein_coding	chr1	1757181	1757310	-	1
## 4181	protein_coding	chr1	1757181	1757310	-	1
## 4182	protein_coding	chr1	1756503	1756608	-	1
## 4183	protein_coding	chr1	1756503	1756608	-	1
## 4184	protein_coding	chr1	1756258	1756343	-	1
## 4185	protein_coding	chr1	1756258	1756343	-	1
## 4186	protein_coding	chr1	1755374	1755476	-	1
## 4187	protein_coding	chr1	1755374	1755476	-	1
## 4188	protein_coding	chr1	1754544	1754698	-	1
## 4189	protein_coding	chr1	1754544	1754698	-	1
## 4190	protein_coding	chr1	1754284	1754383	-	1
## 4191	protein_coding	chr1	1754284	1754383	-	1
## 4192	protein_coding	chr1	1754051	1754208	-	1
## 4193	protein_coding	chr1	1754051	1754208	-	1
## 4194	protein_coding	chr1	1753567	1753649	-	1
## 4195	protein_coding	chr1	1753567	1753649	-	1
## 4196	protein_coding	chr1	1751232	1753060	-	1
## 4197	protein_coding	chr1	1752907	1753060	-	1
## 4198	protein_coding	chr1	1752904	1752906	-	1
## 4199	protein_coding	chr1	1778746	1778790	-	1
## 4200	protein_coding	chr1	1765407	1765446	-	1
## 4201	protein_coding	chr1	1751232	1752906	-	1

## 4202	protein_coding	chr1	1751232	1780069	-	1
## 4203	protein_coding	chr1	1779905	1780069	-	1
## 4204	protein_coding	chr1	1765228	1765446	-	1
## 4205	protein_coding	chr1	1765228	1765406	-	1
## 4206	protein_coding	chr1	1765404	1765406	-	1
## 4207	protein_coding	chr1	1761952	1762035	-	1
## 4208	protein_coding	chr1	1761952	1762035	-	1
## 4209	protein_coding	chr1	1759734	1759902	-	1
## 4210	protein_coding	chr1	1759734	1759902	-	1
## 4211	protein_coding	chr1	1759101	1759243	-	1
## 4212	protein_coding	chr1	1759101	1759243	-	1
## 4213	protein_coding	chr1	1757107	1757310	-	1
## 4214	protein_coding	chr1	1757107	1757310	-	1
## 4215	protein_coding	chr1	1756503	1756657	-	1
## 4216	protein_coding	chr1	1756503	1756657	-	1
## 4217	protein_coding	chr1	1756258	1756343	-	1
## 4218	protein_coding	chr1	1756258	1756343	-	1
## 4219	protein_coding	chr1	1755374	1755476	-	1
## 4220	protein_coding	chr1	1755374	1755476	-	1
## 4221	protein_coding	chr1	1754544	1754698	-	1
## 4222	protein_coding	chr1	1754544	1754698	-	1
## 4223	protein_coding	chr1	1754284	1754383	-	1
## 4224	protein_coding	chr1	1754284	1754383	-	1
## 4225	protein_coding	chr1	1754051	1754208	-	1
## 4226	protein_coding	chr1	1754051	1754208	-	1
## 4227	protein_coding	chr1	1753567	1753649	-	1
## 4228	protein_coding	chr1	1753567	1753649	-	1
## 4229	protein_coding	chr1	1751232	1753060	-	1
## 4230	protein_coding	chr1	1752907	1753060	-	1
## 4231	protein_coding	chr1	1752904	1752906	-	1
## 4232	protein_coding	chr1	1779905	1780069	-	1
## 4233	protein_coding	chr1	1765407	1765446	-	1
## 4234	protein_coding	chr1	1751232	1752906	-	1
## 4235	protein_coding	chr1	1785285	1891117	-	1
## 4236	protein_coding	chr1	1785285	1891117	-	1
## 4237	protein_coding	chr1	1890820	1891117	-	1
## 4238	protein_coding	chr1	1825397	1825499	-	1
## 4239	protein_coding	chr1	1825397	1825453	-	1
## 4240	protein_coding	chr1	1825451	1825453	-	1
## 4241	protein_coding	chr1	1817837	1817875	-	1
## 4242	protein_coding	chr1	1817837	1817875	-	1
## 4243	protein_coding	chr1	1815756	1815862	-	1
## 4244	protein_coding	chr1	1815756	1815862	-	1
## 4245	protein_coding	chr1	1806475	1806538	-	1
## 4246	protein_coding	chr1	1806475	1806538	-	1
## 4247	protein_coding	chr1	1804419	1804581	-	1
## 4248	protein_coding	chr1	1804419	1804581	-	1
## 4249	protein_coding	chr1	1793245	1793311	-	1
## 4250	protein_coding	chr1	1793245	1793311	-	1
## 4251	protein_coding	chr1	1790395	1790596	-	1
## 4252	protein_coding	chr1	1790395	1790596	-	1
## 4253	protein_coding	chr1	1789053	1789269	-	1
## 4254	protein_coding	chr1	1789053	1789269	-	1
## 4255	protein_coding	chr1	1787322	1787437	-	1

## 4256	protein_coding	chr1	1787334	1787437	-	1
## 4257	protein_coding	chr1	1787331	1787333	-	1
## 4258	protein_coding	chr1	1785285	1787053	-	1
## 4259	protein_coding	chr1	1890820	1891117	-	1
## 4260	protein_coding	chr1	1825454	1825499	-	1
## 4261	protein_coding	chr1	1787322	1787333	-	1
## 4262	protein_coding	chr1	1785285	1787053	-	1
## 4263	protein_coding	chr1	1785285	1891117	-	1
## 4264	protein_coding	chr1	1890820	1891117	-	1
## 4265	protein_coding	chr1	1839190	1839238	-	1
## 4266	protein_coding	chr1	1825397	1825499	-	1
## 4267	protein_coding	chr1	1806475	1806538	-	1
## 4268	protein_coding	chr1	1804419	1804581	-	1
## 4269	protein_coding	chr1	1804419	1804548	-	1
## 4270	protein_coding	chr1	1804546	1804548	-	1
## 4271	protein_coding	chr1	1793245	1793311	-	1
## 4272	protein_coding	chr1	1793245	1793311	-	1
## 4273	protein_coding	chr1	1790395	1790596	-	1
## 4274	protein_coding	chr1	1790395	1790596	-	1
## 4275	protein_coding	chr1	1789053	1789269	-	1
## 4276	protein_coding	chr1	1789053	1789269	-	1
## 4277	protein_coding	chr1	1787322	1787437	-	1
## 4278	protein_coding	chr1	1787334	1787437	-	1
## 4279	protein_coding	chr1	1787331	1787333	-	1
## 4280	protein_coding	chr1	1785285	1787053	-	1
## 4281	protein_coding	chr1	1890820	1891117	-	1
## 4282	protein_coding	chr1	1839190	1839238	-	1
## 4283	protein_coding	chr1	1825397	1825499	-	1
## 4284	protein_coding	chr1	1806475	1806538	-	1
## 4285	protein_coding	chr1	1804549	1804581	-	1
## 4286	protein_coding	chr1	1787322	1787333	-	1
## 4287	protein_coding	chr1	1785285	1787053	-	1
## 4288	protein_coding	chr1	1785286	1891087	-	1
## 4289	protein_coding	chr1	1890820	1891087	-	1
## 4290	protein_coding	chr1	1839190	1839238	-	1
## 4291	protein_coding	chr1	1825397	1825499	-	1
## 4292	protein_coding	chr1	1825397	1825453	-	1
## 4293	protein_coding	chr1	1825451	1825453	-	1
## 4294	protein_coding	chr1	1817837	1817875	-	1
## 4295	protein_coding	chr1	1817837	1817875	-	1
## 4296	protein_coding	chr1	1815756	1815862	-	1
## 4297	protein_coding	chr1	1815756	1815862	-	1
## 4298	protein_coding	chr1	1806475	1806538	-	1
## 4299	protein_coding	chr1	1806475	1806538	-	1
## 4300	protein_coding	chr1	1804419	1804581	-	1
## 4301	protein_coding	chr1	1804419	1804581	-	1
## 4302	protein_coding	chr1	1793245	1793311	-	1
## 4303	protein_coding	chr1	1793245	1793311	-	1
## 4304	protein_coding	chr1	1790395	1790596	-	1
## 4305	protein_coding	chr1	1790395	1790596	-	1
## 4306	protein_coding	chr1	1789053	1789269	-	1
## 4307	protein_coding	chr1	1789053	1789269	-	1
## 4308	protein_coding	chr1	1787322	1787437	-	1
## 4309	protein_coding	chr1	1787334	1787437	-	1

## 4310	protein_coding	chr1	1787331	1787333	-	1
## 4311	protein_coding	chr1	1785286	1787053	-	1
## 4312	protein_coding	chr1	1890820	1891087	-	1
## 4313	protein_coding	chr1	1839190	1839238	-	1
## 4314	protein_coding	chr1	1825454	1825499	-	1
## 4315	protein_coding	chr1	1787322	1787333	-	1
## 4316	protein_coding	chr1	1785286	1787053	-	1
## 4317	lncRNA	chr1	1891471	1892658	+	0
## 4318	lncRNA	chr1	1891471	1892658	+	0
## 4319	lncRNA	chr1	1891471	1891851	+	0
## 4320	lncRNA	chr1	1892134	1892658	+	0
## 4321	protein_coding	chr1	1915108	1917296	+	1
## 4322	protein_coding	chr1	1915108	1917294	+	1
## 4323	protein_coding	chr1	1915108	1915307	+	1
## 4324	protein_coding	chr1	1915281	1915307	+	1
## 4325	protein_coding	chr1	1915281	1915283	+	1
## 4326	protein_coding	chr1	1916441	1916615	+	1
## 4327	protein_coding	chr1	1916441	1916615	+	1
## 4328	protein_coding	chr1	1916752	1916896	+	1
## 4329	protein_coding	chr1	1916752	1916896	+	1
## 4330	protein_coding	chr1	1916974	1917074	+	1
## 4331	protein_coding	chr1	1916974	1917074	+	1
## 4332	protein_coding	chr1	1917147	1917294	+	1
## 4333	protein_coding	chr1	1917147	1917190	+	1
## 4334	protein_coding	chr1	1917191	1917193	+	1
## 4335	protein_coding	chr1	1915108	1915280	+	1
## 4336	protein_coding	chr1	1917191	1917294	+	1
## 4337	protein_coding	chr1	1917590	1919279	-	1
## 4338	protein_coding	chr1	1917590	1918797	-	1
## 4339	protein_coding	chr1	1918253	1918797	-	1
## 4340	protein_coding	chr1	1918253	1918556	-	1
## 4341	protein_coding	chr1	1918554	1918556	-	1
## 4342	protein_coding	chr1	1917590	1918162	-	1
## 4343	protein_coding	chr1	1917885	1918162	-	1
## 4344	protein_coding	chr1	1917882	1917884	-	1
## 4345	protein_coding	chr1	1918557	1918797	-	1
## 4346	protein_coding	chr1	1917590	1917884	-	1
## 4347	protein_coding	chr1	1917591	1919279	-	1
## 4348	protein_coding	chr1	1919182	1919279	-	1
## 4349	protein_coding	chr1	1919182	1919265	-	1
## 4350	protein_coding	chr1	1919263	1919265	-	1
## 4351	protein_coding	chr1	1919045	1919088	-	1
## 4352	protein_coding	chr1	1919045	1919088	-	1
## 4353	protein_coding	chr1	1918893	1918934	-	1
## 4354	protein_coding	chr1	1918893	1918934	-	1
## 4355	protein_coding	chr1	1918253	1918431	-	1
## 4356	protein_coding	chr1	1918253	1918431	-	1
## 4357	protein_coding	chr1	1917591	1918162	-	1
## 4358	protein_coding	chr1	1917885	1918162	-	1
## 4359	protein_coding	chr1	1917882	1917884	-	1
## 4360	protein_coding	chr1	1919266	1919279	-	1
## 4361	protein_coding	chr1	1917591	1917884	-	1
## 4362	protein_coding	chr1	1921951	2003837	-	1
## 4363	protein_coding	chr1	1921951	2003837	-	1

## 4364	protein_coding	chr1	2003701	2003837	-	1
## 4365	protein_coding	chr1	1990890	1990975	-	1
## 4366	protein_coding	chr1	1990890	1990956	-	1
## 4367	protein_coding	chr1	1990954	1990956	-	1
## 4368	protein_coding	chr1	1988889	1988973	-	1
## 4369	protein_coding	chr1	1988889	1988973	-	1
## 4370	protein_coding	chr1	1988512	1988655	-	1
## 4371	protein_coding	chr1	1988512	1988655	-	1
## 4372	protein_coding	chr1	1986937	1987035	-	1
## 4373	protein_coding	chr1	1986937	1987035	-	1
## 4374	protein_coding	chr1	1985386	1985490	-	1
## 4375	protein_coding	chr1	1985386	1985490	-	1
## 4376	protein_coding	chr1	1974025	1974198	-	1
## 4377	protein_coding	chr1	1974025	1974198	-	1
## 4378	protein_coding	chr1	1972937	1973047	-	1
## 4379	protein_coding	chr1	1972937	1973047	-	1
## 4380	protein_coding	chr1	1971980	1972082	-	1
## 4381	protein_coding	chr1	1971980	1972082	-	1
## 4382	protein_coding	chr1	1970659	1970816	-	1
## 4383	protein_coding	chr1	1970659	1970816	-	1
## 4384	protein_coding	chr1	1968635	1968833	-	1
## 4385	protein_coding	chr1	1968635	1968833	-	1
## 4386	protein_coding	chr1	1966371	1966526	-	1
## 4387	protein_coding	chr1	1966371	1966526	-	1
## 4388	protein_coding	chr1	1964888	1965061	-	1
## 4389	protein_coding	chr1	1964888	1965061	-	1
## 4390	protein_coding	chr1	1963749	1963867	-	1
## 4391	protein_coding	chr1	1963749	1963867	-	1
## 4392	protein_coding	chr1	1959964	1960030	-	1
## 4393	protein_coding	chr1	1959964	1960030	-	1
## 4394	protein_coding	chr1	1959120	1959209	-	1
## 4395	protein_coding	chr1	1959120	1959209	-	1
## 4396	protein_coding	chr1	1956620	1956784	-	1
## 4397	protein_coding	chr1	1956620	1956784	-	1
## 4398	protein_coding	chr1	1955691	1955850	-	1
## 4399	protein_coding	chr1	1955691	1955850	-	1
## 4400	protein_coding	chr1	1946990	1947054	-	1
## 4401	protein_coding	chr1	1946990	1947054	-	1
## 4402	protein_coding	chr1	1946317	1946439	-	1
## 4403	protein_coding	chr1	1946317	1946439	-	1
## 4404	protein_coding	chr1	1944331	1944452	-	1
## 4405	protein_coding	chr1	1944331	1944452	-	1
## 4406	protein_coding	chr1	1942028	1942156	-	1
## 4407	protein_coding	chr1	1942028	1942156	-	1
## 4408	protein_coding	chr1	1940316	1940403	-	1
## 4409	protein_coding	chr1	1940316	1940403	-	1
## 4410	protein_coding	chr1	1939594	1939767	-	1
## 4411	protein_coding	chr1	1939594	1939767	-	1
## 4412	protein_coding	chr1	1938855	1938988	-	1
## 4413	protein_coding	chr1	1938855	1938988	-	1
## 4414	protein_coding	chr1	1930060	1930336	-	1
## 4415	protein_coding	chr1	1930060	1930336	-	1
## 4416	protein_coding	chr1	1928784	1928882	-	1
## 4417	protein_coding	chr1	1928784	1928882	-	1

## 4418	protein_coding	chr1	1927607	1927746	-	1
## 4419	protein_coding	chr1	1927607	1927746	-	1
## 4420	protein_coding	chr1	1926894	1927028	-	1
## 4421	protein_coding	chr1	1926894	1927028	-	1
## 4422	protein_coding	chr1	1926652	1926761	-	1
## 4423	protein_coding	chr1	1926652	1926761	-	1
## 4424	protein_coding	chr1	1926457	1926512	-	1
## 4425	protein_coding	chr1	1926457	1926512	-	1
## 4426	protein_coding	chr1	1926228	1926347	-	1
## 4427	protein_coding	chr1	1926228	1926347	-	1
## 4428	protein_coding	chr1	1925783	1925938	-	1
## 4429	protein_coding	chr1	1925783	1925938	-	1
## 4430	protein_coding	chr1	1924391	1924520	-	1
## 4431	protein_coding	chr1	1924391	1924520	-	1
## 4432	protein_coding	chr1	1923775	1923929	-	1
## 4433	protein_coding	chr1	1923775	1923929	-	1
## 4434	protein_coding	chr1	1923367	1923499	-	1
## 4435	protein_coding	chr1	1923367	1923499	-	1
## 4436	protein_coding	chr1	1922985	1923115	-	1
## 4437	protein_coding	chr1	1922985	1923115	-	1
## 4438	protein_coding	chr1	1921951	1922388	-	1
## 4439	protein_coding	chr1	1922290	1922388	-	1
## 4440	protein_coding	chr1	1922287	1922289	-	1
## 4441	protein_coding	chr1	2003701	2003837	-	1
## 4442	protein_coding	chr1	1990957	1990975	-	1
## 4443	protein_coding	chr1	1921951	1922289	-	1
## 4444	lncRNA	chr1	2013213	2015639	-	0
## 4445	lncRNA	chr1	2013213	2015530	-	0
## 4446	lncRNA	chr1	2015365	2015530	-	0
## 4447	lncRNA	chr1	2013213	2015000	-	0
## 4448	lncRNA	chr1	2013569	2015639	-	0
## 4449	lncRNA	chr1	2015365	2015639	-	0
## 4450	lncRNA	chr1	2014486	2015000	-	0
## 4451	lncRNA	chr1	2013569	2013755	-	0
## 4452	protein_coding	chr1	2019329	2030758	+	1
## 4453	protein_coding	chr1	2019345	2030758	+	1
## 4454	protein_coding	chr1	2019345	2019491	+	1
## 4455	protein_coding	chr1	2019424	2019491	+	1
## 4456	protein_coding	chr1	2019424	2019426	+	1
## 4457	protein_coding	chr1	2024942	2025054	+	1
## 4458	protein_coding	chr1	2024942	2025054	+	1
## 4459	protein_coding	chr1	2025334	2025401	+	1
## 4460	protein_coding	chr1	2025334	2025401	+	1
## 4461	protein_coding	chr1	2025518	2025738	+	1
## 4462	protein_coding	chr1	2025518	2025738	+	1
## 4463	protein_coding	chr1	2027577	2027659	+	1
## 4464	protein_coding	chr1	2027577	2027659	+	1
## 4465	protein_coding	chr1	2028155	2028292	+	1
## 4466	protein_coding	chr1	2028155	2028292	+	1
## 4467	protein_coding	chr1	2029111	2029266	+	1
## 4468	protein_coding	chr1	2029111	2029266	+	1
## 4469	protein_coding	chr1	2029551	2029762	+	1
## 4470	protein_coding	chr1	2029551	2029762	+	1
## 4471	protein_coding	chr1	2029983	2030758	+	1

## 4472	protein_coding	chr1	2029983	2030279	+	1
## 4473	protein_coding	chr1	2030280	2030282	+	1
## 4474	protein_coding	chr1	2019345	2019423	+	1
## 4475	protein_coding	chr1	2030280	2030758	+	1
## 4476	protein_coding	chr1	2019360	2030407	+	1
## 4477	protein_coding	chr1	2019360	2019491	+	1
## 4478	protein_coding	chr1	2019424	2019491	+	1
## 4479	protein_coding	chr1	2019424	2019426	+	1
## 4480	protein_coding	chr1	2024942	2025054	+	1
## 4481	protein_coding	chr1	2024942	2025054	+	1
## 4482	protein_coding	chr1	2025334	2025401	+	1
## 4483	protein_coding	chr1	2025334	2025401	+	1
## 4484	protein_coding	chr1	2025518	2025738	+	1
## 4485	protein_coding	chr1	2025518	2025738	+	1
## 4486	protein_coding	chr1	2027577	2027659	+	1
## 4487	protein_coding	chr1	2027577	2027659	+	1
## 4488	protein_coding	chr1	2028071	2028292	+	1
## 4489	protein_coding	chr1	2028071	2028292	+	1
## 4490	protein_coding	chr1	2029111	2029266	+	1
## 4491	protein_coding	chr1	2029111	2029266	+	1
## 4492	protein_coding	chr1	2029551	2029762	+	1
## 4493	protein_coding	chr1	2029551	2029762	+	1
## 4494	protein_coding	chr1	2029983	2030407	+	1
## 4495	protein_coding	chr1	2029983	2030279	+	1
## 4496	protein_coding	chr1	2030280	2030282	+	1
## 4497	protein_coding	chr1	2019360	2019423	+	1
## 4498	protein_coding	chr1	2030280	2030407	+	1
## 4499	protein_coding	chr1	2019379	2030365	+	1
## 4500	protein_coding	chr1	2019379	2019491	+	1
## 4501	protein_coding	chr1	2019424	2019491	+	1
## 4502	protein_coding	chr1	2019424	2019426	+	1
## 4503	protein_coding	chr1	2024942	2025054	+	1
## 4504	protein_coding	chr1	2024942	2025054	+	1
## 4505	protein_coding	chr1	2025334	2025401	+	1
## 4506	protein_coding	chr1	2025334	2025401	+	1
## 4507	protein_coding	chr1	2025518	2025738	+	1
## 4508	protein_coding	chr1	2025518	2025738	+	1
## 4509	protein_coding	chr1	2027577	2027659	+	1
## 4510	protein_coding	chr1	2027577	2027659	+	1
## 4511	protein_coding	chr1	2028155	2028292	+	1
## 4512	protein_coding	chr1	2028155	2028292	+	1
## 4513	protein_coding	chr1	2029111	2029266	+	1
## 4514	protein_coding	chr1	2029111	2029266	+	1
## 4515	protein_coding	chr1	2029551	2030365	+	1
## 4516	protein_coding	chr1	2029551	2030203	+	1
## 4517	protein_coding	chr1	2030204	2030206	+	1
## 4518	protein_coding	chr1	2019379	2019423	+	1
## 4519	protein_coding	chr1	2030204	2030365	+	1
## 4520	protein_coding	chr1	2019404	2030656	+	1
## 4521	protein_coding	chr1	2019404	2019491	+	1
## 4522	protein_coding	chr1	2019424	2019491	+	1
## 4523	protein_coding	chr1	2019424	2019426	+	1
## 4524	protein_coding	chr1	2024942	2025054	+	1
## 4525	protein_coding	chr1	2024942	2025054	+	1

## 4526	protein_coding	chr1	2025334	2025401	+	1
## 4527	protein_coding	chr1	2025334	2025401	+	1
## 4528	protein_coding	chr1	2025518	2025738	+	1
## 4529	protein_coding	chr1	2025518	2025738	+	1
## 4530	protein_coding	chr1	2027577	2027659	+	1
## 4531	protein_coding	chr1	2027577	2027659	+	1
## 4532	protein_coding	chr1	2028155	2028292	+	1
## 4533	protein_coding	chr1	2028155	2028292	+	1
## 4534	protein_coding	chr1	2029111	2029266	+	1
## 4535	protein_coding	chr1	2029111	2029266	+	1
## 4536	protein_coding	chr1	2029620	2029762	+	1
## 4537	protein_coding	chr1	2029620	2029762	+	1
## 4538	protein_coding	chr1	2029983	2030656	+	1
## 4539	protein_coding	chr1	2029983	2030279	+	1
## 4540	protein_coding	chr1	2030280	2030282	+	1
## 4541	protein_coding	chr1	2019404	2019423	+	1
## 4542	protein_coding	chr1	2030280	2030656	+	1
## 4543	lncRNA	chr1	2049203	2050070	-	0
## 4544	lncRNA	chr1	2049304	2050070	-	0
## 4545	lncRNA	chr1	2049868	2050070	-	0
## 4546	lncRNA	chr1	2049598	2049666	-	0
## 4547	lncRNA	chr1	2049304	2049468	-	0
## 4548	protein_coding	chr1	2050411	2185395	+	1
## 4549	protein_coding	chr1	2073462	2185390	+	1
## 4550	protein_coding	chr1	2073462	2073929	+	1
## 4551	protein_coding	chr1	2135262	2135347	+	1
## 4552	protein_coding	chr1	2144210	2144341	+	1
## 4553	protein_coding	chr1	2144339	2144341	+	1
## 4554	protein_coding	chr1	2144339	2144341	+	1
## 4555	protein_coding	chr1	2146027	2146108	+	1
## 4556	protein_coding	chr1	2146027	2146108	+	1
## 4557	protein_coding	chr1	2148872	2148924	+	1
## 4558	protein_coding	chr1	2148872	2148924	+	1
## 4559	protein_coding	chr1	2150790	2150978	+	1
## 4560	protein_coding	chr1	2150790	2150978	+	1
## 4561	protein_coding	chr1	2155995	2156092	+	1
## 4562	protein_coding	chr1	2155995	2156092	+	1
## 4563	protein_coding	chr1	2169518	2169604	+	1
## 4564	protein_coding	chr1	2169518	2169604	+	1
## 4565	protein_coding	chr1	2172055	2172190	+	1
## 4566	protein_coding	chr1	2172055	2172190	+	1
## 4567	protein_coding	chr1	2172301	2172388	+	1
## 4568	protein_coding	chr1	2172301	2172388	+	1
## 4569	protein_coding	chr1	2173897	2174016	+	1
## 4570	protein_coding	chr1	2173897	2174016	+	1
## 4571	protein_coding	chr1	2174754	2174833	+	1
## 4572	protein_coding	chr1	2174754	2174833	+	1
## 4573	protein_coding	chr1	2175224	2175313	+	1
## 4574	protein_coding	chr1	2175224	2175313	+	1
## 4575	protein_coding	chr1	2184583	2184698	+	1
## 4576	protein_coding	chr1	2184583	2184698	+	1
## 4577	protein_coding	chr1	2184922	2185390	+	1
## 4578	protein_coding	chr1	2184922	2185006	+	1
## 4579	protein_coding	chr1	2185007	2185009	+	1

## 4580	protein_coding	chr1	2073462	2073929	+	1
## 4581	protein_coding	chr1	2135262	2135347	+	1
## 4582	protein_coding	chr1	2144210	2144338	+	1
## 4583	protein_coding	chr1	2185007	2185390	+	1
## 4584	lncRNA	chr1	2141084	2145279	-	0
## 4585	lncRNA	chr1	2141084	2145279	-	0
## 4586	lncRNA	chr1	2141084	2145279	-	0
## 4587	lncRNA	chr1	2181794	2184389	-	1
## 4588	lncRNA	chr1	2181794	2183875	-	1
## 4589	lncRNA	chr1	2183571	2183875	-	1
## 4590	lncRNA	chr1	2181794	2182741	-	1
## 4591	lncRNA	chr1	2182735	2184389	-	1
## 4592	lncRNA	chr1	2183991	2184389	-	1
## 4593	lncRNA	chr1	2183571	2183704	-	1
## 4594	lncRNA	chr1	2182735	2182823	-	1
## 4595	protein_coding	chr1	2184461	2212720	-	1
## 4596	protein_coding	chr1	2184461	2194775	-	1
## 4597	protein_coding	chr1	2194688	2194775	-	1
## 4598	protein_coding	chr1	2194688	2194749	-	1
## 4599	protein_coding	chr1	2194747	2194749	-	1
## 4600	protein_coding	chr1	2193639	2193910	-	1
## 4601	protein_coding	chr1	2193639	2193910	-	1
## 4602	protein_coding	chr1	2184461	2185513	-	1
## 4603	protein_coding	chr1	2185281	2185513	-	1
## 4604	protein_coding	chr1	2185278	2185280	-	1
## 4605	protein_coding	chr1	2194750	2194775	-	1
## 4606	protein_coding	chr1	2184461	2185280	-	1
## 4607	protein_coding	chr1	2189548	2194772	-	1
## 4608	protein_coding	chr1	2194688	2194772	-	1
## 4609	protein_coding	chr1	2194688	2194749	-	1
## 4610	protein_coding	chr1	2194747	2194749	-	1
## 4611	protein_coding	chr1	2193998	2194133	-	1
## 4612	protein_coding	chr1	2193998	2194133	-	1
## 4613	protein_coding	chr1	2193639	2193910	-	1
## 4614	protein_coding	chr1	2193639	2193910	-	1
## 4615	protein_coding	chr1	2189548	2189781	-	1
## 4616	protein_coding	chr1	2189712	2189781	-	1
## 4617	protein_coding	chr1	2189709	2189711	-	1
## 4618	protein_coding	chr1	2194750	2194772	-	1
## 4619	protein_coding	chr1	2189548	2189711	-	1
## 4620	lncRNA	chr1	2212523	2220738	+	0
## 4621	lncRNA	chr1	2212523	2220738	+	0
## 4622	lncRNA	chr1	2212523	2212644	+	0
## 4623	lncRNA	chr1	2220535	2220738	+	0
## 4624	protein_coding	chr1	2228319	2310213	+	1
## 4625	protein_coding	chr1	2228319	2310213	+	1
## 4626	protein_coding	chr1	2228319	2229735	+	1
## 4627	protein_coding	chr1	2228767	2229735	+	1
## 4628	protein_coding	chr1	2228767	2228769	+	1
## 4629	protein_coding	chr1	2302978	2303103	+	1
## 4630	protein_coding	chr1	2302978	2303103	+	1
## 4631	protein_coding	chr1	2303285	2303400	+	1
## 4632	protein_coding	chr1	2303285	2303400	+	1
## 4633	protein_coding	chr1	2303840	2304102	+	1

## 4634	protein_coding	chr1	2303840	2304102	+	1
## 4635	protein_coding	chr1	2304293	2304585	+	1
## 4636	protein_coding	chr1	2304293	2304585	+	1
## 4637	protein_coding	chr1	2306020	2306250	+	1
## 4638	protein_coding	chr1	2306020	2306250	+	1
## 4639	protein_coding	chr1	2306577	2310213	+	1
## 4640	protein_coding	chr1	2306577	2306762	+	1
## 4641	protein_coding	chr1	2306763	2306765	+	1
## 4642	protein_coding	chr1	2228319	2228766	+	1
## 4643	protein_coding	chr1	2306763	2310213	+	1
## 4644	lncRNA	chr1	2315040	2323085	+	0
## 4645	lncRNA	chr1	2315040	2321323	+	0
## 4646	lncRNA	chr1	2315040	2315998	+	0
## 4647	lncRNA	chr1	2316392	2317011	+	0
## 4648	lncRNA	chr1	2317611	2317729	+	0
## 4649	lncRNA	chr1	2318990	2321323	+	0
## 4650	lncRNA	chr1	2315040	2323085	+	0
## 4651	lncRNA	chr1	2315040	2315998	+	0
## 4652	lncRNA	chr1	2316392	2317011	+	0
## 4653	lncRNA	chr1	2318990	2323085	+	0
## 4654	protein_coding	chr1	2321253	2391707	-	1
## 4655	protein_coding	chr1	2321253	2391554	-	1
## 4656	protein_coding	chr1	2391458	2391554	-	1
## 4657	protein_coding	chr1	2391458	2391533	-	1
## 4658	protein_coding	chr1	2391531	2391533	-	1
## 4659	protein_coding	chr1	2389925	2389996	-	1
## 4660	protein_coding	chr1	2389925	2389996	-	1
## 4661	protein_coding	chr1	2388239	2388337	-	1
## 4662	protein_coding	chr1	2388239	2388337	-	1
## 4663	protein_coding	chr1	2387419	2387529	-	1
## 4664	protein_coding	chr1	2387419	2387529	-	1
## 4665	protein_coding	chr1	2385807	2385897	-	1
## 4666	protein_coding	chr1	2385807	2385897	-	1
## 4667	protein_coding	chr1	2384978	2385065	-	1
## 4668	protein_coding	chr1	2384978	2385065	-	1
## 4669	protein_coding	chr1	2374461	2374557	-	1
## 4670	protein_coding	chr1	2374461	2374557	-	1
## 4671	protein_coding	chr1	2372481	2372591	-	1
## 4672	protein_coding	chr1	2372481	2372591	-	1
## 4673	protein_coding	chr1	2358592	2358715	-	1
## 4674	protein_coding	chr1	2358592	2358715	-	1
## 4675	protein_coding	chr1	2357432	2357598	-	1
## 4676	protein_coding	chr1	2357432	2357598	-	1
## 4677	protein_coding	chr1	2336717	2336850	-	1
## 4678	protein_coding	chr1	2336717	2336850	-	1
## 4679	protein_coding	chr1	2336469	2336548	-	1
## 4680	protein_coding	chr1	2336469	2336548	-	1
## 4681	protein_coding	chr1	2324097	2324143	-	1
## 4682	protein_coding	chr1	2324097	2324143	-	1
## 4683	protein_coding	chr1	2321253	2321579	-	1
## 4684	protein_coding	chr1	2321386	2321579	-	1
## 4685	protein_coding	chr1	2321383	2321385	-	1
## 4686	protein_coding	chr1	2391534	2391554	-	1
## 4687	protein_coding	chr1	2321253	2321385	-	1

## 4688	protein_coding	chr1	2355175	2391707	-	1
## 4689	protein_coding	chr1	2391458	2391707	-	1
## 4690	protein_coding	chr1	2391458	2391533	-	1
## 4691	protein_coding	chr1	2391531	2391533	-	1
## 4692	protein_coding	chr1	2389925	2389996	-	1
## 4693	protein_coding	chr1	2389925	2389996	-	1
## 4694	protein_coding	chr1	2388239	2388337	-	1
## 4695	protein_coding	chr1	2388239	2388337	-	1
## 4696	protein_coding	chr1	2387419	2387529	-	1
## 4697	protein_coding	chr1	2387419	2387529	-	1
## 4698	protein_coding	chr1	2385807	2385897	-	1
## 4699	protein_coding	chr1	2385807	2385897	-	1
## 4700	protein_coding	chr1	2384978	2385065	-	1
## 4701	protein_coding	chr1	2384978	2385065	-	1
## 4702	protein_coding	chr1	2374461	2374557	-	1
## 4703	protein_coding	chr1	2374461	2374557	-	1
## 4704	protein_coding	chr1	2372481	2372591	-	1
## 4705	protein_coding	chr1	2372481	2372591	-	1
## 4706	protein_coding	chr1	2358592	2358715	-	1
## 4707	protein_coding	chr1	2358592	2358715	-	1
## 4708	protein_coding	chr1	2357432	2357598	-	1
## 4709	protein_coding	chr1	2357432	2357598	-	1
## 4710	protein_coding	chr1	2355175	2355464	-	1
## 4711	protein_coding	chr1	2355451	2355464	-	1
## 4712	protein_coding	chr1	2355448	2355450	-	1
## 4713	protein_coding	chr1	2391534	2391707	-	1
## 4714	protein_coding	chr1	2355175	2355450	-	1
## 4715	lncRNA	chr1	2326201	2326693	-	0
## 4716	lncRNA	chr1	2326201	2326693	-	0
## 4717	lncRNA	chr1	2326201	2326693	-	0
## 4718	transcribed_processed_pseudogene	chr1	2350414	2352820	-	0
## 4719	transcribed_processed_pseudogene	chr1	2350414	2352820	-	0
## 4720	transcribed_processed_pseudogene	chr1	2350414	2352820	-	0
## 4721	transcribed_processed_pseudogene	chr1	2351644	2351857	-	0
## 4722	transcribed_processed_pseudogene	chr1	2351644	2351857	-	0
## 4723	lncRNA	chr1	2363061	2363628	-	0
## 4724	lncRNA	chr1	2363061	2363628	-	0
## 4725	lncRNA	chr1	2363061	2363628	-	0
## 4726	protein_coding	chr1	2391775	2405442	+	1
## 4727	protein_coding	chr1	2391775	2405442	+	1
## 4728	protein_coding	chr1	2391775	2391958	+	1
## 4729	protein_coding	chr1	2395784	2395871	+	1
## 4730	protein_coding	chr1	2395791	2395871	+	1
## 4731	protein_coding	chr1	2395791	2395793	+	1
## 4732	protein_coding	chr1	2397116	2397220	+	1
## 4733	protein_coding	chr1	2397116	2397220	+	1
## 4734	protein_coding	chr1	2400857	2400935	+	1
## 4735	protein_coding	chr1	2400857	2400935	+	1
## 4736	protein_coding	chr1	2402207	2402342	+	1
## 4737	protein_coding	chr1	2402207	2402292	+	1
## 4738	protein_coding	chr1	2402293	2402295	+	1
## 4739	protein_coding	chr1	2403035	2405442	+	1
## 4740	protein_coding	chr1	2391775	2391958	+	1
## 4741	protein_coding	chr1	2395784	2395790	+	1

## 4742	protein_coding	chr1	2402293	2402342	+	1
## 4743	protein_coding	chr1	2403035	2405442	+	1
## 4744	protein_coding	chr1	2391828	2402325	+	1
## 4745	protein_coding	chr1	2391828	2391958	+	1
## 4746	protein_coding	chr1	2395784	2395871	+	1
## 4747	protein_coding	chr1	2395791	2395871	+	1
## 4748	protein_coding	chr1	2395791	2395793	+	1
## 4749	protein_coding	chr1	2397116	2397220	+	1
## 4750	protein_coding	chr1	2397116	2397220	+	1
## 4751	protein_coding	chr1	2400857	2400935	+	1
## 4752	protein_coding	chr1	2400857	2400935	+	1
## 4753	protein_coding	chr1	2402207	2402325	+	1
## 4754	protein_coding	chr1	2402207	2402292	+	1
## 4755	protein_coding	chr1	2402293	2402295	+	1
## 4756	protein_coding	chr1	2391828	2391958	+	1
## 4757	protein_coding	chr1	2395784	2395790	+	1
## 4758	protein_coding	chr1	2402293	2402325	+	1
## 4759	protein_coding	chr1	2391841	2405436	+	1
## 4760	protein_coding	chr1	2391841	2391958	+	1
## 4761	protein_coding	chr1	2395784	2395871	+	1
## 4762	protein_coding	chr1	2395791	2395871	+	1
## 4763	protein_coding	chr1	2395791	2395793	+	1
## 4764	protein_coding	chr1	2397116	2397220	+	1
## 4765	protein_coding	chr1	2397116	2397220	+	1
## 4766	protein_coding	chr1	2399415	2399514	+	1
## 4767	protein_coding	chr1	2399415	2399514	+	1
## 4768	protein_coding	chr1	2400857	2400935	+	1
## 4769	protein_coding	chr1	2400857	2400935	+	1
## 4770	protein_coding	chr1	2402207	2402342	+	1
## 4771	protein_coding	chr1	2402207	2402342	+	1
## 4772	protein_coding	chr1	2403035	2405436	+	1
## 4773	protein_coding	chr1	2403035	2403121	+	1
## 4774	protein_coding	chr1	2403122	2403124	+	1
## 4775	protein_coding	chr1	2391841	2391958	+	1
## 4776	protein_coding	chr1	2395784	2395790	+	1
## 4777	protein_coding	chr1	2403122	2405436	+	1
## 4778	protein_coding	chr1	2391890	2403751	+	1
## 4779	protein_coding	chr1	2391890	2391958	+	1
## 4780	protein_coding	chr1	2395784	2395871	+	1
## 4781	protein_coding	chr1	2395791	2395871	+	1
## 4782	protein_coding	chr1	2395791	2395793	+	1
## 4783	protein_coding	chr1	2397116	2397220	+	1
## 4784	protein_coding	chr1	2397116	2397220	+	1
## 4785	protein_coding	chr1	2399415	2399514	+	1
## 4786	protein_coding	chr1	2399415	2399514	+	1
## 4787	protein_coding	chr1	2400857	2400935	+	1
## 4788	protein_coding	chr1	2400857	2400935	+	1
## 4789	protein_coding	chr1	2402097	2402342	+	1
## 4790	protein_coding	chr1	2402097	2402292	+	1
## 4791	protein_coding	chr1	2402293	2402295	+	1
## 4792	protein_coding	chr1	2403035	2403751	+	1
## 4793	protein_coding	chr1	2391890	2391958	+	1
## 4794	protein_coding	chr1	2395784	2395790	+	1
## 4795	protein_coding	chr1	2402293	2402342	+	1

## 4796	protein_coding	chr1	2403035	2403751	+	1
## 4797	protein_coding	chr1	2394005	2403216	+	1
## 4798	protein_coding	chr1	2394005	2395871	+	1
## 4799	protein_coding	chr1	2395791	2395871	+	1
## 4800	protein_coding	chr1	2395791	2395793	+	1
## 4801	protein_coding	chr1	2397116	2397220	+	1
## 4802	protein_coding	chr1	2397116	2397220	+	1
## 4803	protein_coding	chr1	2399415	2399514	+	1
## 4804	protein_coding	chr1	2399415	2399514	+	1
## 4805	protein_coding	chr1	2400857	2400935	+	1
## 4806	protein_coding	chr1	2400857	2400935	+	1
## 4807	protein_coding	chr1	2402207	2402342	+	1
## 4808	protein_coding	chr1	2402207	2402342	+	1
## 4809	protein_coding	chr1	2403035	2403216	+	1
## 4810	protein_coding	chr1	2403035	2403121	+	1
## 4811	protein_coding	chr1	2403122	2403124	+	1
## 4812	protein_coding	chr1	2394005	2395790	+	1
## 4813	protein_coding	chr1	2403122	2403216	+	1
## 4814	protein_coding	chr1	2403964	2413797	-	1
## 4815	protein_coding	chr1	2403964	2412530	-	1
## 4816	protein_coding	chr1	2412391	2412530	-	1
## 4817	protein_coding	chr1	2412391	2412502	-	1
## 4818	protein_coding	chr1	2412500	2412502	-	1
## 4819	protein_coding	chr1	2410371	2410451	-	1
## 4820	protein_coding	chr1	2410371	2410451	-	1
## 4821	protein_coding	chr1	2408452	2408858	-	1
## 4822	protein_coding	chr1	2408452	2408858	-	1
## 4823	protein_coding	chr1	2406720	2406955	-	1
## 4824	protein_coding	chr1	2406720	2406955	-	1
## 4825	protein_coding	chr1	2406484	2406619	-	1
## 4826	protein_coding	chr1	2406484	2406619	-	1
## 4827	protein_coding	chr1	2403964	2405834	-	1
## 4828	protein_coding	chr1	2405769	2405834	-	1
## 4829	protein_coding	chr1	2405766	2405768	-	1
## 4830	protein_coding	chr1	2412503	2412530	-	1
## 4831	protein_coding	chr1	2403964	2405768	-	1
## 4832	protein_coding	chr1	2404819	2412571	-	1
## 4833	protein_coding	chr1	2412391	2412571	-	1
## 4834	protein_coding	chr1	2412391	2412502	-	1
## 4835	protein_coding	chr1	2412500	2412502	-	1
## 4836	protein_coding	chr1	2410371	2410451	-	1
## 4837	protein_coding	chr1	2410371	2410451	-	1
## 4838	protein_coding	chr1	2408452	2408858	-	1
## 4839	protein_coding	chr1	2408452	2408858	-	1
## 4840	protein_coding	chr1	2406720	2406895	-	1
## 4841	protein_coding	chr1	2406720	2406895	-	1
## 4842	protein_coding	chr1	2406484	2406619	-	1
## 4843	protein_coding	chr1	2406484	2406619	-	1
## 4844	protein_coding	chr1	2404819	2405834	-	1
## 4845	protein_coding	chr1	2405769	2405834	-	1
## 4846	protein_coding	chr1	2405766	2405768	-	1
## 4847	protein_coding	chr1	2412503	2412571	-	1
## 4848	protein_coding	chr1	2404819	2405768	-	1
## 4849	protein_coding	chr1	2404838	2412540	-	1

## 4850	protein_coding	chr1	2412391	2412540	-	1
## 4851	protein_coding	chr1	2412391	2412502	-	1
## 4852	protein_coding	chr1	2412500	2412502	-	1
## 4853	protein_coding	chr1	2410371	2410451	-	1
## 4854	protein_coding	chr1	2410371	2410451	-	1
## 4855	protein_coding	chr1	2408452	2408858	-	1
## 4856	protein_coding	chr1	2408452	2408858	-	1
## 4857	protein_coding	chr1	2406720	2406895	-	1
## 4858	protein_coding	chr1	2406720	2406895	-	1
## 4859	protein_coding	chr1	2406484	2406619	-	1
## 4860	protein_coding	chr1	2406484	2406619	-	1
## 4861	protein_coding	chr1	2404838	2405828	-	1
## 4862	protein_coding	chr1	2405769	2405828	-	1
## 4863	protein_coding	chr1	2405766	2405768	-	1
## 4864	protein_coding	chr1	2412503	2412540	-	1
## 4865	protein_coding	chr1	2404838	2405768	-	1
## 4866	protein_coding	chr1	2425980	2505532	+	1
## 4867	protein_coding	chr1	2467459	2505526	+	1
## 4868	protein_coding	chr1	2467459	2467662	+	1
## 4869	protein_coding	chr1	2467620	2467662	+	1
## 4870	protein_coding	chr1	2467620	2467622	+	1
## 4871	protein_coding	chr1	2478476	2478622	+	1
## 4872	protein_coding	chr1	2478476	2478622	+	1
## 4873	protein_coding	chr1	2479734	2479978	+	1
## 4874	protein_coding	chr1	2479734	2479978	+	1
## 4875	protein_coding	chr1	2480184	2480312	+	1
## 4876	protein_coding	chr1	2480184	2480312	+	1
## 4877	protein_coding	chr1	2484448	2484618	+	1
## 4878	protein_coding	chr1	2484448	2484618	+	1
## 4879	protein_coding	chr1	2486907	2487000	+	1
## 4880	protein_coding	chr1	2486907	2487000	+	1
## 4881	protein_coding	chr1	2487173	2487376	+	1
## 4882	protein_coding	chr1	2487173	2487376	+	1
## 4883	protein_coding	chr1	2487598	2487718	+	1
## 4884	protein_coding	chr1	2487598	2487718	+	1
## 4885	protein_coding	chr1	2489207	2489378	+	1
## 4886	protein_coding	chr1	2489207	2489378	+	1
## 4887	protein_coding	chr1	2489760	2489867	+	1
## 4888	protein_coding	chr1	2489760	2489867	+	1
## 4889	protein_coding	chr1	2491192	2491335	+	1
## 4890	protein_coding	chr1	2491192	2491335	+	1
## 4891	protein_coding	chr1	2494856	2494948	+	1
## 4892	protein_coding	chr1	2494856	2494948	+	1
## 4893	protein_coding	chr1	2495488	2495570	+	1
## 4894	protein_coding	chr1	2495488	2495570	+	1
## 4895	protein_coding	chr1	2496607	2496704	+	1
## 4896	protein_coding	chr1	2496607	2496704	+	1
## 4897	protein_coding	chr1	2496828	2497010	+	1
## 4898	protein_coding	chr1	2496828	2497010	+	1
## 4899	protein_coding	chr1	2497502	2497609	+	1
## 4900	protein_coding	chr1	2497502	2497609	+	1
## 4901	protein_coding	chr1	2498523	2498647	+	1
## 4902	protein_coding	chr1	2498523	2498647	+	1
## 4903	protein_coding	chr1	2498744	2498828	+	1

## 4904	protein_coding	chr1	2498744	2498828	+	1
## 4905	protein_coding	chr1	2499084	2499230	+	1
## 4906	protein_coding	chr1	2499084	2499230	+	1
## 4907	protein_coding	chr1	2499641	2499720	+	1
## 4908	protein_coding	chr1	2499641	2499720	+	1
## 4909	protein_coding	chr1	2502112	2502910	+	1
## 4910	protein_coding	chr1	2502112	2502910	+	1
## 4911	protein_coding	chr1	2503617	2505526	+	1
## 4912	protein_coding	chr1	2503617	2503624	+	1
## 4913	protein_coding	chr1	2503625	2503627	+	1
## 4914	protein_coding	chr1	2467459	2467619	+	1
## 4915	protein_coding	chr1	2503625	2505526	+	1
## 4916	protein_coding	chr1	2476289	2505532	+	1
## 4917	protein_coding	chr1	2476289	2476712	+	1
## 4918	protein_coding	chr1	2476589	2476712	+	1
## 4919	protein_coding	chr1	2476589	2476591	+	1
## 4920	protein_coding	chr1	2478476	2478622	+	1
## 4921	protein_coding	chr1	2478476	2478622	+	1
## 4922	protein_coding	chr1	2479734	2479977	+	1
## 4923	protein_coding	chr1	2479734	2479977	+	1
## 4924	protein_coding	chr1	2480183	2480312	+	1
## 4925	protein_coding	chr1	2480183	2480312	+	1
## 4926	protein_coding	chr1	2484448	2484618	+	1
## 4927	protein_coding	chr1	2484448	2484618	+	1
## 4928	protein_coding	chr1	2486907	2487000	+	1
## 4929	protein_coding	chr1	2486907	2487000	+	1
## 4930	protein_coding	chr1	2487173	2487376	+	1
## 4931	protein_coding	chr1	2487173	2487376	+	1
## 4932	protein_coding	chr1	2487598	2487718	+	1
## 4933	protein_coding	chr1	2487598	2487718	+	1
## 4934	protein_coding	chr1	2489207	2489378	+	1
## 4935	protein_coding	chr1	2489207	2489378	+	1
## 4936	protein_coding	chr1	2489760	2489867	+	1
## 4937	protein_coding	chr1	2489760	2489867	+	1
## 4938	protein_coding	chr1	2491192	2491335	+	1
## 4939	protein_coding	chr1	2491192	2491335	+	1
## 4940	protein_coding	chr1	2494856	2494948	+	1
## 4941	protein_coding	chr1	2494856	2494948	+	1
## 4942	protein_coding	chr1	2495488	2495570	+	1
## 4943	protein_coding	chr1	2495488	2495570	+	1
## 4944	protein_coding	chr1	2496607	2496704	+	1
## 4945	protein_coding	chr1	2496607	2496704	+	1
## 4946	protein_coding	chr1	2496828	2497010	+	1
## 4947	protein_coding	chr1	2496828	2497010	+	1
## 4948	protein_coding	chr1	2497502	2497609	+	1
## 4949	protein_coding	chr1	2497502	2497609	+	1
## 4950	protein_coding	chr1	2498523	2498647	+	1
## 4951	protein_coding	chr1	2498523	2498647	+	1
## 4952	protein_coding	chr1	2498744	2498828	+	1
## 4953	protein_coding	chr1	2498744	2498828	+	1
## 4954	protein_coding	chr1	2499084	2499230	+	1
## 4955	protein_coding	chr1	2499084	2499230	+	1
## 4956	protein_coding	chr1	2499641	2499720	+	1
## 4957	protein_coding	chr1	2499641	2499720	+	1

## 4958	protein_coding	chr1	2502112	2502409	+	1
## 4959	protein_coding	chr1	2502112	2502409	+	1
## 4960	protein_coding	chr1	2503922	2505532	+	1
## 4961	protein_coding	chr1	2503922	2505210	+	1
## 4962	protein_coding	chr1	2505211	2505213	+	1
## 4963	protein_coding	chr1	2476289	2476588	+	1
## 4964	protein_coding	chr1	2505211	2505532	+	1
## 4965	protein_coding	chr1	2476315	2505525	+	1
## 4966	protein_coding	chr1	2476315	2476712	+	1
## 4967	protein_coding	chr1	2476589	2476712	+	1
## 4968	protein_coding	chr1	2476589	2476591	+	1
## 4969	protein_coding	chr1	2478476	2478622	+	1
## 4970	protein_coding	chr1	2478476	2478622	+	1
## 4971	protein_coding	chr1	2479734	2479978	+	1
## 4972	protein_coding	chr1	2479734	2479978	+	1
## 4973	protein_coding	chr1	2480184	2480312	+	1
## 4974	protein_coding	chr1	2480184	2480312	+	1
## 4975	protein_coding	chr1	2484448	2484618	+	1
## 4976	protein_coding	chr1	2484448	2484618	+	1
## 4977	protein_coding	chr1	2486907	2487000	+	1
## 4978	protein_coding	chr1	2486907	2487000	+	1
## 4979	protein_coding	chr1	2487173	2487376	+	1
## 4980	protein_coding	chr1	2487173	2487376	+	1
## 4981	protein_coding	chr1	2487598	2487718	+	1
## 4982	protein_coding	chr1	2487598	2487718	+	1
## 4983	protein_coding	chr1	2489207	2489378	+	1
## 4984	protein_coding	chr1	2489207	2489378	+	1
## 4985	protein_coding	chr1	2489760	2489867	+	1
## 4986	protein_coding	chr1	2489760	2489867	+	1
## 4987	protein_coding	chr1	2491192	2491335	+	1
## 4988	protein_coding	chr1	2491192	2491335	+	1
## 4989	protein_coding	chr1	2494856	2494948	+	1
## 4990	protein_coding	chr1	2494856	2494948	+	1
## 4991	protein_coding	chr1	2495488	2495570	+	1
## 4992	protein_coding	chr1	2495488	2495570	+	1
## 4993	protein_coding	chr1	2496607	2496704	+	1
## 4994	protein_coding	chr1	2496607	2496704	+	1
## 4995	protein_coding	chr1	2496828	2497010	+	1
## 4996	protein_coding	chr1	2496828	2497010	+	1
## 4997	protein_coding	chr1	2497502	2497609	+	1
## 4998	protein_coding	chr1	2497502	2497609	+	1
## 4999	protein_coding	chr1	2498523	2498647	+	1
## 5000	protein_coding	chr1	2498523	2498647	+	1
## 5001	protein_coding	chr1	2498744	2498828	+	1
## 5002	protein_coding	chr1	2498744	2498828	+	1
## 5003	protein_coding	chr1	2499084	2499230	+	1
## 5004	protein_coding	chr1	2499084	2499230	+	1
## 5005	protein_coding	chr1	2499641	2499720	+	1
## 5006	protein_coding	chr1	2499641	2499720	+	1
## 5007	protein_coding	chr1	2502112	2502409	+	1
## 5008	protein_coding	chr1	2502112	2502409	+	1
## 5009	protein_coding	chr1	2503922	2505525	+	1
## 5010	protein_coding	chr1	2503922	2505210	+	1
## 5011	protein_coding	chr1	2505211	2505213	+	1

## 5012	protein_coding	chr1	2476315	2476588	+	1
## 5013	protein_coding	chr1	2505211	2505525	+	1
## 5014	lncRNA	chr1	2492300	2493258	-	0
## 5015	lncRNA	chr1	2492300	2493258	-	0
## 5016	lncRNA	chr1	2493101	2493258	-	0
## 5017	lncRNA	chr1	2492300	2492596	-	0
## 5018	lncRNA	chr1	2493437	2494479	-	0
## 5019	lncRNA	chr1	2493437	2494479	-	0
## 5020	lncRNA	chr1	2494383	2494479	-	0
## 5021	lncRNA	chr1	2493437	2493853	-	0
## 5022	protein_coding	chr1	2508531	2526628	-	1
## 5023	protein_coding	chr1	2508531	2526628	-	1
## 5024	protein_coding	chr1	2526464	2526628	-	1
## 5025	protein_coding	chr1	2526464	2526587	-	1
## 5026	protein_coding	chr1	2526585	2526587	-	1
## 5027	protein_coding	chr1	2521718	2521800	-	1
## 5028	protein_coding	chr1	2521718	2521800	-	1
## 5029	protein_coding	chr1	2521101	2521315	-	1
## 5030	protein_coding	chr1	2521101	2521315	-	1
## 5031	protein_coding	chr1	2520723	2520906	-	1
## 5032	protein_coding	chr1	2520723	2520906	-	1
## 5033	protein_coding	chr1	2520322	2520414	-	1
## 5034	protein_coding	chr1	2520322	2520414	-	1
## 5035	protein_coding	chr1	2519801	2519954	-	1
## 5036	protein_coding	chr1	2519801	2519954	-	1
## 5037	protein_coding	chr1	2519143	2519324	-	1
## 5038	protein_coding	chr1	2519143	2519324	-	1
## 5039	protein_coding	chr1	2518516	2518597	-	1
## 5040	protein_coding	chr1	2518516	2518597	-	1
## 5041	protein_coding	chr1	2518164	2518264	-	1
## 5042	protein_coding	chr1	2518164	2518264	-	1
## 5043	protein_coding	chr1	2515562	2515717	-	1
## 5044	protein_coding	chr1	2515562	2515717	-	1
## 5045	protein_coding	chr1	2514354	2514466	-	1
## 5046	protein_coding	chr1	2514354	2514466	-	1
## 5047	protein_coding	chr1	2514002	2514089	-	1
## 5048	protein_coding	chr1	2514002	2514089	-	1
## 5049	protein_coding	chr1	2512888	2513039	-	1
## 5050	protein_coding	chr1	2512888	2513039	-	1
## 5051	protein_coding	chr1	2511628	2511683	-	1
## 5052	protein_coding	chr1	2511628	2511683	-	1
## 5053	protein_coding	chr1	2511338	2511387	-	1
## 5054	protein_coding	chr1	2511338	2511387	-	1
## 5055	protein_coding	chr1	2510678	2510782	-	1
## 5056	protein_coding	chr1	2510678	2510782	-	1
## 5057	protein_coding	chr1	2510057	2510157	-	1
## 5058	protein_coding	chr1	2510057	2510157	-	1
## 5059	protein_coding	chr1	2509862	2509930	-	1
## 5060	protein_coding	chr1	2509862	2509930	-	1
## 5061	protein_coding	chr1	2508531	2509060	-	1
## 5062	protein_coding	chr1	2508850	2509060	-	1
## 5063	protein_coding	chr1	2508847	2508849	-	1
## 5064	protein_coding	chr1	2526588	2526628	-	1
## 5065	protein_coding	chr1	2508531	2508849	-	1

## 5066	protein_coding	chr1	2508537	2526596	-	1
## 5067	protein_coding	chr1	2526464	2526596	-	1
## 5068	protein_coding	chr1	2526464	2526587	-	1
## 5069	protein_coding	chr1	2526585	2526587	-	1
## 5070	protein_coding	chr1	2521718	2521800	-	1
## 5071	protein_coding	chr1	2521718	2521800	-	1
## 5072	protein_coding	chr1	2521145	2521315	-	1
## 5073	protein_coding	chr1	2521145	2521315	-	1
## 5074	protein_coding	chr1	2520723	2520833	-	1
## 5075	protein_coding	chr1	2520723	2520833	-	1
## 5076	protein_coding	chr1	2520322	2520414	-	1
## 5077	protein_coding	chr1	2520322	2520414	-	1
## 5078	protein_coding	chr1	2519801	2519954	-	1
## 5079	protein_coding	chr1	2519801	2519954	-	1
## 5080	protein_coding	chr1	2519143	2519324	-	1
## 5081	protein_coding	chr1	2519143	2519324	-	1
## 5082	protein_coding	chr1	2518516	2518597	-	1
## 5083	protein_coding	chr1	2518516	2518597	-	1
## 5084	protein_coding	chr1	2518164	2518264	-	1
## 5085	protein_coding	chr1	2518164	2518264	-	1
## 5086	protein_coding	chr1	2515562	2515717	-	1
## 5087	protein_coding	chr1	2515562	2515717	-	1
## 5088	protein_coding	chr1	2514354	2514466	-	1
## 5089	protein_coding	chr1	2514354	2514466	-	1
## 5090	protein_coding	chr1	2514002	2514089	-	1
## 5091	protein_coding	chr1	2514002	2514089	-	1
## 5092	protein_coding	chr1	2512888	2513039	-	1
## 5093	protein_coding	chr1	2512888	2513039	-	1
## 5094	protein_coding	chr1	2511628	2511683	-	1
## 5095	protein_coding	chr1	2511628	2511683	-	1
## 5096	protein_coding	chr1	2511338	2511387	-	1
## 5097	protein_coding	chr1	2511338	2511387	-	1
## 5098	protein_coding	chr1	2510678	2510782	-	1
## 5099	protein_coding	chr1	2510678	2510782	-	1
## 5100	protein_coding	chr1	2510057	2510157	-	1
## 5101	protein_coding	chr1	2510057	2510157	-	1
## 5102	protein_coding	chr1	2509862	2509930	-	1
## 5103	protein_coding	chr1	2509862	2509930	-	1
## 5104	protein_coding	chr1	2508537	2509060	-	1
## 5105	protein_coding	chr1	2508850	2509060	-	1
## 5106	protein_coding	chr1	2508847	2508849	-	1
## 5107	protein_coding	chr1	2526588	2526596	-	1
## 5108	protein_coding	chr1	2508537	2508849	-	1
## 5109	protein_coding	chr1	2508847	2526611	-	1
## 5110	protein_coding	chr1	2526464	2526611	-	1
## 5111	protein_coding	chr1	2526464	2526611	-	1
## 5112	protein_coding	chr1	2526609	2526611	-	1
## 5113	protein_coding	chr1	2521718	2521800	-	1
## 5114	protein_coding	chr1	2521718	2521800	-	1
## 5115	protein_coding	chr1	2521101	2521315	-	1
## 5116	protein_coding	chr1	2521101	2521315	-	1
## 5117	protein_coding	chr1	2520723	2520906	-	1
## 5118	protein_coding	chr1	2520723	2520906	-	1
## 5119	protein_coding	chr1	2520322	2520414	-	1

## 5120	protein_coding	chr1	2520322	2520414	-	1
## 5121	protein_coding	chr1	2519801	2519954	-	1
## 5122	protein_coding	chr1	2519801	2519954	-	1
## 5123	protein_coding	chr1	2519143	2519324	-	1
## 5124	protein_coding	chr1	2519143	2519324	-	1
## 5125	protein_coding	chr1	2518516	2518597	-	1
## 5126	protein_coding	chr1	2518516	2518597	-	1
## 5127	protein_coding	chr1	2518164	2518264	-	1
## 5128	protein_coding	chr1	2518164	2518264	-	1
## 5129	protein_coding	chr1	2515562	2515717	-	1
## 5130	protein_coding	chr1	2515562	2515717	-	1
## 5131	protein_coding	chr1	2514354	2514466	-	1
## 5132	protein_coding	chr1	2514354	2514466	-	1
## 5133	protein_coding	chr1	2514002	2514089	-	1
## 5134	protein_coding	chr1	2514002	2514089	-	1
## 5135	protein_coding	chr1	2512888	2513039	-	1
## 5136	protein_coding	chr1	2512888	2513039	-	1
## 5137	protein_coding	chr1	2511628	2511683	-	1
## 5138	protein_coding	chr1	2511628	2511683	-	1
## 5139	protein_coding	chr1	2511338	2511387	-	1
## 5140	protein_coding	chr1	2511338	2511387	-	1
## 5141	protein_coding	chr1	2510678	2510782	-	1
## 5142	protein_coding	chr1	2510678	2510782	-	1
## 5143	protein_coding	chr1	2510057	2510157	-	1
## 5144	protein_coding	chr1	2510057	2510157	-	1
## 5145	protein_coding	chr1	2509862	2509930	-	1
## 5146	protein_coding	chr1	2509862	2509930	-	1
## 5147	protein_coding	chr1	2508847	2509060	-	1
## 5148	protein_coding	chr1	2508850	2509060	-	1
## 5149	protein_coding	chr1	2508847	2508849	-	1
## 5150	protein_coding	chr1	2508847	2508849	-	1
## 5151	protein_coding	chr1	2528745	2530263	-	1
## 5152	protein_coding	chr1	2528745	2530263	-	1
## 5153	protein_coding	chr1	2530111	2530263	-	1
## 5154	protein_coding	chr1	2530111	2530164	-	1
## 5155	protein_coding	chr1	2530162	2530164	-	1
## 5156	protein_coding	chr1	2529846	2530011	-	1
## 5157	protein_coding	chr1	2529846	2530011	-	1
## 5158	protein_coding	chr1	2528745	2529749	-	1
## 5159	protein_coding	chr1	2529472	2529749	-	1
## 5160	protein_coding	chr1	2529469	2529471	-	1
## 5161	protein_coding	chr1	2530165	2530263	-	1
## 5162	protein_coding	chr1	2528745	2529471	-	1
## 5163	lncRNA	chr1	2530064	2547460	+	0
## 5164	lncRNA	chr1	2530064	2547460	+	0
## 5165	lncRNA	chr1	2530064	2530102	+	0
## 5166	lncRNA	chr1	2545969	2547460	+	0
## 5167	lncRNA	chr1	2549920	2557031	-	1
## 5168	lncRNA	chr1	2549920	2552106	-	1
## 5169	lncRNA	chr1	2550992	2552106	-	1
## 5170	lncRNA	chr1	2550573	2550731	-	1
## 5171	lncRNA	chr1	2549920	2550274	-	1
## 5172	lncRNA	chr1	2549920	2557011	-	1
## 5173	lncRNA	chr1	2556977	2557011	-	1

## 5174	lncRNA	chr1	2554724	2556696	-	1
## 5175	lncRNA	chr1	2554101	2554296	-	1
## 5176	lncRNA	chr1	2553626	2553814	-	1
## 5177	lncRNA	chr1	2551775	2552703	-	1
## 5178	lncRNA	chr1	2549920	2550119	-	1
## 5179	lncRNA	chr1	2550283	2554150	-	1
## 5180	lncRNA	chr1	2550992	2554150	-	1
## 5181	lncRNA	chr1	2550283	2550731	-	1
## 5182	lncRNA	chr1	2554241	2557031	-	1
## 5183	lncRNA	chr1	2556977	2557031	-	1
## 5184	lncRNA	chr1	2556428	2556696	-	1
## 5185	lncRNA	chr1	2555681	2555869	-	1
## 5186	lncRNA	chr1	2554241	2554296	-	1
## 5187	protein_coding	chr1	2555639	2565382	+	1
## 5188	protein_coding	chr1	2556222	2561718	+	1
## 5189	protein_coding	chr1	2556222	2556261	+	1
## 5190	protein_coding	chr1	2556585	2556733	+	1
## 5191	protein_coding	chr1	2556665	2556733	+	1
## 5192	protein_coding	chr1	2556665	2556667	+	1
## 5193	protein_coding	chr1	2557726	2557834	+	1
## 5194	protein_coding	chr1	2557726	2557834	+	1
## 5195	protein_coding	chr1	2558343	2558468	+	1
## 5196	protein_coding	chr1	2558343	2558468	+	1
## 5197	protein_coding	chr1	2559823	2559978	+	1
## 5198	protein_coding	chr1	2559823	2559978	+	1
## 5199	protein_coding	chr1	2560624	2560714	+	1
## 5200	protein_coding	chr1	2560624	2560714	+	1
## 5201	protein_coding	chr1	2561494	2561718	+	1
## 5202	protein_coding	chr1	2561494	2561521	+	1
## 5203	protein_coding	chr1	2561522	2561524	+	1
## 5204	protein_coding	chr1	2556222	2556261	+	1
## 5205	protein_coding	chr1	2556585	2556664	+	1
## 5206	protein_coding	chr1	2561522	2561718	+	1
## 5207	protein_coding	chr1	2556366	2563829	+	1
## 5208	protein_coding	chr1	2556366	2556733	+	1
## 5209	protein_coding	chr1	2556665	2556733	+	1
## 5210	protein_coding	chr1	2556665	2556667	+	1
## 5211	protein_coding	chr1	2557726	2557834	+	1
## 5212	protein_coding	chr1	2557726	2557834	+	1
## 5213	protein_coding	chr1	2558343	2558468	+	1
## 5214	protein_coding	chr1	2558343	2558468	+	1
## 5215	protein_coding	chr1	2559823	2559978	+	1
## 5216	protein_coding	chr1	2559823	2559978	+	1
## 5217	protein_coding	chr1	2560624	2560714	+	1
## 5218	protein_coding	chr1	2560624	2560714	+	1
## 5219	protein_coding	chr1	2561673	2561815	+	1
## 5220	protein_coding	chr1	2561673	2561815	+	1
## 5221	protein_coding	chr1	2562865	2562896	+	1
## 5222	protein_coding	chr1	2562865	2562896	+	1
## 5223	protein_coding	chr1	2563148	2563829	+	1
## 5224	protein_coding	chr1	2563148	2563270	+	1
## 5225	protein_coding	chr1	2563271	2563273	+	1
## 5226	protein_coding	chr1	2556366	2556664	+	1
## 5227	protein_coding	chr1	2563271	2563829	+	1

## 5228	TEC	chr1	2566410	2569888	+	0
## 5229	TEC	chr1	2566410	2569888	+	0
## 5230	TEC	chr1	2566410	2566605	+	0
## 5231	TEC	chr1	2567866	2568054	+	0
## 5232	TEC	chr1	2568977	2569888	+	0
## 5233	lncRNA	chr1	2581560	2584533	+	0
## 5234	lncRNA	chr1	2581560	2584533	+	0
## 5235	lncRNA	chr1	2581560	2581650	+	0
## 5236	lncRNA	chr1	2583370	2583495	+	0
## 5237	lncRNA	chr1	2584125	2584533	+	0
## 5238	protein_coding	chr1	2586491	2591469	+	1
## 5239	protein_coding	chr1	2586750	2591467	+	1
## 5240	protein_coding	chr1	2586750	2586948	+	1
## 5241	protein_coding	chr1	2586796	2586948	+	1
## 5242	protein_coding	chr1	2586796	2586798	+	1
## 5243	protein_coding	chr1	2587091	2587295	+	1
## 5244	protein_coding	chr1	2587091	2587295	+	1
## 5245	protein_coding	chr1	2587741	2587792	+	1
## 5246	protein_coding	chr1	2587741	2587792	+	1
## 5247	protein_coding	chr1	2588336	2588453	+	1
## 5248	protein_coding	chr1	2588336	2588453	+	1
## 5249	protein_coding	chr1	2588550	2588625	+	1
## 5250	protein_coding	chr1	2588550	2588625	+	1
## 5251	protein_coding	chr1	2588922	2589040	+	1
## 5252	protein_coding	chr1	2588922	2589040	+	1
## 5253	protein_coding	chr1	2589410	2591467	+	1
## 5254	protein_coding	chr1	2589410	2589424	+	1
## 5255	protein_coding	chr1	2589425	2589427	+	1
## 5256	protein_coding	chr1	2586750	2586795	+	1
## 5257	protein_coding	chr1	2589425	2591467	+	1
## 5258	protein_coding	chr1	2586750	2591467	+	1
## 5259	protein_coding	chr1	2586750	2586948	+	1
## 5260	protein_coding	chr1	2586796	2586948	+	1
## 5261	protein_coding	chr1	2586796	2586798	+	1
## 5262	protein_coding	chr1	2587091	2587295	+	1
## 5263	protein_coding	chr1	2587091	2587295	+	1
## 5264	protein_coding	chr1	2587741	2587792	+	1
## 5265	protein_coding	chr1	2587741	2587792	+	1
## 5266	protein_coding	chr1	2588390	2588453	+	1
## 5267	protein_coding	chr1	2588390	2588453	+	1
## 5268	protein_coding	chr1	2588954	2589040	+	1
## 5269	protein_coding	chr1	2588954	2589040	+	1
## 5270	protein_coding	chr1	2589410	2591467	+	1
## 5271	protein_coding	chr1	2589410	2589424	+	1
## 5272	protein_coding	chr1	2589425	2589427	+	1
## 5273	protein_coding	chr1	2586750	2586795	+	1
## 5274	protein_coding	chr1	2589425	2591467	+	1
## 5275	protein_coding	chr1	2586775	2591468	+	1
## 5276	protein_coding	chr1	2586775	2586948	+	1
## 5277	protein_coding	chr1	2586886	2586948	+	1
## 5278	protein_coding	chr1	2586886	2586888	+	1
## 5279	protein_coding	chr1	2587091	2587295	+	1
## 5280	protein_coding	chr1	2587091	2587295	+	1
## 5281	protein_coding	chr1	2587741	2587792	+	1

## 5282	protein_coding	chr1	2587741	2587792	+	1
## 5283	protein_coding	chr1	2588390	2588453	+	1
## 5284	protein_coding	chr1	2588390	2588453	+	1
## 5285	protein_coding	chr1	2588550	2588625	+	1
## 5286	protein_coding	chr1	2588550	2588625	+	1
## 5287	protein_coding	chr1	2588922	2589040	+	1
## 5288	protein_coding	chr1	2588922	2589040	+	1
## 5289	protein_coding	chr1	2589410	2591468	+	1
## 5290	protein_coding	chr1	2589410	2589424	+	1
## 5291	protein_coding	chr1	2589425	2589427	+	1
## 5292	protein_coding	chr1	2586775	2586885	+	1
## 5293	protein_coding	chr1	2589425	2591468	+	1
## 5294	protein_coding	chr1	2586780	2591467	+	1
## 5295	protein_coding	chr1	2586780	2586948	+	1
## 5296	protein_coding	chr1	2586886	2586948	+	1
## 5297	protein_coding	chr1	2586886	2586888	+	1
## 5298	protein_coding	chr1	2587091	2587295	+	1
## 5299	protein_coding	chr1	2587091	2587295	+	1
## 5300	protein_coding	chr1	2587741	2587792	+	1
## 5301	protein_coding	chr1	2587741	2587792	+	1
## 5302	protein_coding	chr1	2588336	2588453	+	1
## 5303	protein_coding	chr1	2588336	2588453	+	1
## 5304	protein_coding	chr1	2588550	2588625	+	1
## 5305	protein_coding	chr1	2588550	2588625	+	1
## 5306	protein_coding	chr1	2588954	2589040	+	1
## 5307	protein_coding	chr1	2588954	2589040	+	1
## 5308	protein_coding	chr1	2589410	2591467	+	1
## 5309	protein_coding	chr1	2589410	2589411	+	1
## 5310	protein_coding	chr1	2589412	2589414	+	1
## 5311	protein_coding	chr1	2586780	2586885	+	1
## 5312	protein_coding	chr1	2589412	2591467	+	1
## 5313	protein_coding	chr1	2586796	2589947	+	1
## 5314	protein_coding	chr1	2586796	2586948	+	1
## 5315	protein_coding	chr1	2586886	2586948	+	1
## 5316	protein_coding	chr1	2586886	2586888	+	1
## 5317	protein_coding	chr1	2587091	2587295	+	1
## 5318	protein_coding	chr1	2587091	2587295	+	1
## 5319	protein_coding	chr1	2587741	2587792	+	1
## 5320	protein_coding	chr1	2587741	2587792	+	1
## 5321	protein_coding	chr1	2588390	2588453	+	1
## 5322	protein_coding	chr1	2588390	2588453	+	1
## 5323	protein_coding	chr1	2588957	2589040	+	1
## 5324	protein_coding	chr1	2588957	2589040	+	1
## 5325	protein_coding	chr1	2589410	2589947	+	1
## 5326	protein_coding	chr1	2589410	2589424	+	1
## 5327	protein_coding	chr1	2589425	2589427	+	1
## 5328	protein_coding	chr1	2586796	2586885	+	1
## 5329	protein_coding	chr1	2589425	2589947	+	1
## 5330	protein_coding	chr1	2586798	2591463	+	1
## 5331	protein_coding	chr1	2586798	2586948	+	1
## 5332	protein_coding	chr1	2586886	2586948	+	1
## 5333	protein_coding	chr1	2586886	2586888	+	1
## 5334	protein_coding	chr1	2587091	2587295	+	1
## 5335	protein_coding	chr1	2587091	2587295	+	1

## 5336	protein_coding	chr1	2587741	2587792	+	1
## 5337	protein_coding	chr1	2587741	2587792	+	1
## 5338	protein_coding	chr1	2588390	2588453	+	1
## 5339	protein_coding	chr1	2588390	2588453	+	1
## 5340	protein_coding	chr1	2588550	2588625	+	1
## 5341	protein_coding	chr1	2588550	2588625	+	1
## 5342	protein_coding	chr1	2588954	2589040	+	1
## 5343	protein_coding	chr1	2588954	2589040	+	1
## 5344	protein_coding	chr1	2589410	2591463	+	1
## 5345	protein_coding	chr1	2589410	2589411	+	1
## 5346	protein_coding	chr1	2589412	2589414	+	1
## 5347	protein_coding	chr1	2586798	2586885	+	1
## 5348	protein_coding	chr1	2589412	2591463	+	1
## 5349	protein_coding	chr1	2590639	2633016	-	1
## 5350	protein_coding	chr1	2590639	2633016	-	1
## 5351	protein_coding	chr1	2632866	2633016	-	1
## 5352	protein_coding	chr1	2629331	2629521	-	1
## 5353	protein_coding	chr1	2629331	2629484	-	1
## 5354	protein_coding	chr1	2629482	2629484	-	1
## 5355	protein_coding	chr1	2612127	2612204	-	1
## 5356	protein_coding	chr1	2612127	2612204	-	1
## 5357	protein_coding	chr1	2611281	2611340	-	1
## 5358	protein_coding	chr1	2611281	2611340	-	1
## 5359	protein_coding	chr1	2609670	2609831	-	1
## 5360	protein_coding	chr1	2609670	2609831	-	1
## 5361	protein_coding	chr1	2609339	2609419	-	1
## 5362	protein_coding	chr1	2609339	2609419	-	1
## 5363	protein_coding	chr1	2606974	2607069	-	1
## 5364	protein_coding	chr1	2606974	2607069	-	1
## 5365	protein_coding	chr1	2606248	2606366	-	1
## 5366	protein_coding	chr1	2606248	2606366	-	1
## 5367	protein_coding	chr1	2605558	2605623	-	1
## 5368	protein_coding	chr1	2605558	2605623	-	1
## 5369	protein_coding	chr1	2604147	2604281	-	1
## 5370	protein_coding	chr1	2604147	2604281	-	1
## 5371	protein_coding	chr1	2603884	2603973	-	1
## 5372	protein_coding	chr1	2603884	2603973	-	1
## 5373	protein_coding	chr1	2598654	2598790	-	1
## 5374	protein_coding	chr1	2598654	2598790	-	1
## 5375	protein_coding	chr1	2598207	2598300	-	1
## 5376	protein_coding	chr1	2598207	2598300	-	1
## 5377	protein_coding	chr1	2596561	2596689	-	1
## 5378	protein_coding	chr1	2596561	2596689	-	1
## 5379	protein_coding	chr1	2596009	2596107	-	1
## 5380	protein_coding	chr1	2596009	2596107	-	1
## 5381	protein_coding	chr1	2595276	2595359	-	1
## 5382	protein_coding	chr1	2595276	2595359	-	1
## 5383	protein_coding	chr1	2594790	2594893	-	1
## 5384	protein_coding	chr1	2594790	2594893	-	1
## 5385	protein_coding	chr1	2594385	2594443	-	1
## 5386	protein_coding	chr1	2594385	2594443	-	1
## 5387	protein_coding	chr1	2593814	2593933	-	1
## 5388	protein_coding	chr1	2593814	2593933	-	1
## 5389	protein_coding	chr1	2592833	2592966	-	1

## 5390	protein_coding	chr1	2592833	2592966	-	1
## 5391	protein_coding	chr1	2592655	2592720	-	1
## 5392	protein_coding	chr1	2592655	2592720	-	1
## 5393	protein_coding	chr1	2591932	2592027	-	1
## 5394	protein_coding	chr1	2591932	2592027	-	1
## 5395	protein_coding	chr1	2591557	2591633	-	1
## 5396	protein_coding	chr1	2591557	2591633	-	1
## 5397	protein_coding	chr1	2590639	2591089	-	1
## 5398	protein_coding	chr1	2590993	2591089	-	1
## 5399	protein_coding	chr1	2590990	2590992	-	1
## 5400	protein_coding	chr1	2632866	2633016	-	1
## 5401	protein_coding	chr1	2629485	2629521	-	1
## 5402	protein_coding	chr1	2590639	2590992	-	1
## 5403	protein_coding	chr1	2590926	2629494	-	1
## 5404	protein_coding	chr1	2629331	2629494	-	1
## 5405	protein_coding	chr1	2629331	2629484	-	1
## 5406	protein_coding	chr1	2629482	2629484	-	1
## 5407	protein_coding	chr1	2612127	2612204	-	1
## 5408	protein_coding	chr1	2612127	2612204	-	1
## 5409	protein_coding	chr1	2611281	2611340	-	1
## 5410	protein_coding	chr1	2611281	2611340	-	1
## 5411	protein_coding	chr1	2609670	2609831	-	1
## 5412	protein_coding	chr1	2609670	2609831	-	1
## 5413	protein_coding	chr1	2609394	2609419	-	1
## 5414	protein_coding	chr1	2609394	2609419	-	1
## 5415	protein_coding	chr1	2603884	2603973	-	1
## 5416	protein_coding	chr1	2603884	2603973	-	1
## 5417	protein_coding	chr1	2598654	2598790	-	1
## 5418	protein_coding	chr1	2598654	2598790	-	1
## 5419	protein_coding	chr1	2598207	2598300	-	1
## 5420	protein_coding	chr1	2598207	2598300	-	1
## 5421	protein_coding	chr1	2596561	2596689	-	1
## 5422	protein_coding	chr1	2596561	2596689	-	1
## 5423	protein_coding	chr1	2596009	2596107	-	1
## 5424	protein_coding	chr1	2596009	2596107	-	1
## 5425	protein_coding	chr1	2595276	2595359	-	1
## 5426	protein_coding	chr1	2595276	2595359	-	1
## 5427	protein_coding	chr1	2594790	2594893	-	1
## 5428	protein_coding	chr1	2594790	2594893	-	1
## 5429	protein_coding	chr1	2594385	2594443	-	1
## 5430	protein_coding	chr1	2594385	2594443	-	1
## 5431	protein_coding	chr1	2593814	2593933	-	1
## 5432	protein_coding	chr1	2593814	2593933	-	1
## 5433	protein_coding	chr1	2592833	2592966	-	1
## 5434	protein_coding	chr1	2592833	2592966	-	1
## 5435	protein_coding	chr1	2592655	2592720	-	1
## 5436	protein_coding	chr1	2592655	2592720	-	1
## 5437	protein_coding	chr1	2591932	2592027	-	1
## 5438	protein_coding	chr1	2591932	2592027	-	1
## 5439	protein_coding	chr1	2591557	2591633	-	1
## 5440	protein_coding	chr1	2591557	2591633	-	1
## 5441	protein_coding	chr1	2590926	2591089	-	1
## 5442	protein_coding	chr1	2590993	2591089	-	1
## 5443	protein_coding	chr1	2590990	2590992	-	1

## 5444	protein_coding	chr1	2629485	2629494	-	1
## 5445	protein_coding	chr1	2590926	2590992	-	1
## 5446	lncRNA	chr1	2632568	2636620	+	0
## 5447	lncRNA	chr1	2632568	2636620	+	0
## 5448	lncRNA	chr1	2632568	2632675	+	0
## 5449	lncRNA	chr1	2636356	2636620	+	0
## 5450	protein_coding	chr1	2635976	2801717	-	1
## 5451	protein_coding	chr1	2635976	2801717	-	1
## 5452	protein_coding	chr1	2801577	2801717	-	1
## 5453	protein_coding	chr1	2800044	2800868	-	1
## 5454	protein_coding	chr1	2800044	2800827	-	1
## 5455	protein_coding	chr1	2800825	2800827	-	1
## 5456	protein_coding	chr1	2789503	2790346	-	1
## 5457	protein_coding	chr1	2789503	2790346	-	1
## 5458	protein_coding	chr1	2787481	2787706	-	1
## 5459	protein_coding	chr1	2787481	2787706	-	1
## 5460	protein_coding	chr1	2785819	2786023	-	1
## 5461	protein_coding	chr1	2785819	2786023	-	1
## 5462	protein_coding	chr1	2783609	2783775	-	1
## 5463	protein_coding	chr1	2783609	2783775	-	1
## 5464	protein_coding	chr1	2645293	2645563	-	1
## 5465	protein_coding	chr1	2645293	2645563	-	1
## 5466	protein_coding	chr1	2644264	2644478	-	1
## 5467	protein_coding	chr1	2644264	2644478	-	1
## 5468	protein_coding	chr1	2635976	2641895	-	1
## 5469	protein_coding	chr1	2641371	2641895	-	1
## 5470	protein_coding	chr1	2641368	2641370	-	1
## 5471	protein_coding	chr1	2801577	2801717	-	1
## 5472	protein_coding	chr1	2800828	2800868	-	1
## 5473	protein_coding	chr1	2635976	2641370	-	1
## 5474	protein_coding	chr1	2641368	2789665	-	1
## 5475	protein_coding	chr1	2789503	2789665	-	1
## 5476	protein_coding	chr1	2789503	2789591	-	1
## 5477	protein_coding	chr1	2789589	2789591	-	1
## 5478	protein_coding	chr1	2787481	2787706	-	1
## 5479	protein_coding	chr1	2787481	2787706	-	1
## 5480	protein_coding	chr1	2785819	2786023	-	1
## 5481	protein_coding	chr1	2785819	2786023	-	1
## 5482	protein_coding	chr1	2783609	2783775	-	1
## 5483	protein_coding	chr1	2783609	2783775	-	1
## 5484	protein_coding	chr1	2645293	2645563	-	1
## 5485	protein_coding	chr1	2645293	2645563	-	1
## 5486	protein_coding	chr1	2644264	2644478	-	1
## 5487	protein_coding	chr1	2644264	2644478	-	1
## 5488	protein_coding	chr1	2641368	2641895	-	1
## 5489	protein_coding	chr1	2641371	2641895	-	1
## 5490	protein_coding	chr1	2641368	2641370	-	1
## 5491	protein_coding	chr1	2789592	2789665	-	1
## 5492	protein_coding	chr1	2641368	2641370	-	1
## 5493	lncRNA	chr1	2768091	2784733	+	0
## 5494	lncRNA	chr1	2768091	2784733	+	0
## 5495	lncRNA	chr1	2768091	2768091	+	0
## 5496	lncRNA	chr1	2777299	2777504	+	0
## 5497	lncRNA	chr1	2784348	2784733	+	0

## 5498	lncRNA	chr1	2773603	2776473	+	0
## 5499	lncRNA	chr1	2773603	2776473	+	0
## 5500	lncRNA	chr1	2773603	2773864	+	0
## 5501	lncRNA	chr1	2773947	2774066	+	0
## 5502	lncRNA	chr1	2774230	2774709	+	0
## 5503	lncRNA	chr1	2774790	2774910	+	0
## 5504	lncRNA	chr1	2774993	2775072	+	0
## 5505	lncRNA	chr1	2775155	2775274	+	0
## 5506	lncRNA	chr1	2775357	2775437	+	0
## 5507	lncRNA	chr1	2775519	2775634	+	0
## 5508	lncRNA	chr1	2776049	2776129	+	0
## 5509	lncRNA	chr1	2776370	2776473	+	0
## 5510	lncRNA	chr1	2811850	2812692	-	0
## 5511	lncRNA	chr1	2811850	2812692	-	0
## 5512	lncRNA	chr1	2812235	2812692	-	0
## 5513	lncRNA	chr1	2811850	2811998	-	0
## 5514	lncRNA	chr1	2814056	2817767	+	0
## 5515	lncRNA	chr1	2814056	2817767	+	0
## 5516	lncRNA	chr1	2814056	2814451	+	0
## 5517	lncRNA	chr1	2817501	2817767	+	0
## 5518	lncRNA	chr1	2814432	2814998	-	0
## 5519	lncRNA	chr1	2814432	2814998	-	0
## 5520	lncRNA	chr1	2814827	2814998	-	0
## 5521	lncRNA	chr1	2814432	2814688	-	0
## 5522	lncRNA	chr1	2960658	2968707	-	0
## 5523	lncRNA	chr1	2960658	2963415	-	0
## 5524	lncRNA	chr1	2963264	2963415	-	0
## 5525	lncRNA	chr1	2961672	2962100	-	0
## 5526	lncRNA	chr1	2960658	2961585	-	0
## 5527	protein_coding	chr1	3021483	3022903	+	1
## 5528	protein_coding	chr1	3021483	3022903	+	1
## 5529	protein_coding	chr1	3021483	3022903	+	1
## 5530	protein_coding	chr1	3021687	3022817	+	1
## 5531	protein_coding	chr1	3021687	3021689	+	1
## 5532	protein_coding	chr1	3022818	3022820	+	1
## 5533	protein_coding	chr1	3021483	3021686	+	1
## 5534	protein_coding	chr1	3022818	3022903	+	1
## 5535	lncRNA	chr1	3059615	3068437	-	1
## 5536	lncRNA	chr1	3061959	3062395	-	1
## 5537	lncRNA	chr1	3062195	3062395	-	1
## 5538	lncRNA	chr1	3061959	3062192	-	1
## 5539	protein_coding	chr1	3069168	3438621	+	1
## 5540	protein_coding	chr1	3069168	3434342	+	1
## 5541	protein_coding	chr1	3069168	3069296	+	1
## 5542	protein_coding	chr1	3069260	3069296	+	1
## 5543	protein_coding	chr1	3069260	3069262	+	1
## 5544	protein_coding	chr1	3186125	3186474	+	1
## 5545	protein_coding	chr1	3186125	3186474	+	1
## 5546	protein_coding	chr1	3244087	3244137	+	1
## 5547	protein_coding	chr1	3244087	3244137	+	1
## 5548	protein_coding	chr1	3385149	3385286	+	1
## 5549	protein_coding	chr1	3385149	3385286	+	1
## 5550	protein_coding	chr1	3396491	3396593	+	1
## 5551	protein_coding	chr1	3396491	3396593	+	1

## 5552	protein_coding	chr1	3402791	3402998	+	1
## 5553	protein_coding	chr1	3402791	3402998	+	1
## 5554	protein_coding	chr1	3404739	3404886	+	1
## 5555	protein_coding	chr1	3404739	3404886	+	1
## 5556	protein_coding	chr1	3405495	3405648	+	1
## 5557	protein_coding	chr1	3405495	3405648	+	1
## 5558	protein_coding	chr1	3411384	3412800	+	1
## 5559	protein_coding	chr1	3411384	3412800	+	1
## 5560	protein_coding	chr1	3414560	3414647	+	1
## 5561	protein_coding	chr1	3414560	3414647	+	1
## 5562	protein_coding	chr1	3417828	3417997	+	1
## 5563	protein_coding	chr1	3417828	3417997	+	1
## 5564	protein_coding	chr1	3418667	3418744	+	1
## 5565	protein_coding	chr1	3418667	3418744	+	1
## 5566	protein_coding	chr1	3425581	3425750	+	1
## 5567	protein_coding	chr1	3425581	3425750	+	1
## 5568	protein_coding	chr1	3426051	3426225	+	1
## 5569	protein_coding	chr1	3426051	3426225	+	1
## 5570	protein_coding	chr1	3430872	3431108	+	1
## 5571	protein_coding	chr1	3430872	3431108	+	1
## 5572	protein_coding	chr1	3433677	3434342	+	1
## 5573	protein_coding	chr1	3433677	3433686	+	1
## 5574	protein_coding	chr1	3433687	3433689	+	1
## 5575	protein_coding	chr1	3069168	3069259	+	1
## 5576	protein_coding	chr1	3433687	3434342	+	1
## 5577	protein_coding	chr1	3069197	3435421	+	1
## 5578	protein_coding	chr1	3069197	3069296	+	1
## 5579	protein_coding	chr1	3069260	3069296	+	1
## 5580	protein_coding	chr1	3069260	3069262	+	1
## 5581	protein_coding	chr1	3186125	3186474	+	1
## 5582	protein_coding	chr1	3186125	3186474	+	1
## 5583	protein_coding	chr1	3244087	3244137	+	1
## 5584	protein_coding	chr1	3244087	3244137	+	1
## 5585	protein_coding	chr1	3385152	3385286	+	1
## 5586	protein_coding	chr1	3385152	3385286	+	1
## 5587	protein_coding	chr1	3396491	3396593	+	1
## 5588	protein_coding	chr1	3396491	3396593	+	1
## 5589	protein_coding	chr1	3402791	3402998	+	1
## 5590	protein_coding	chr1	3402791	3402998	+	1
## 5591	protein_coding	chr1	3404739	3404886	+	1
## 5592	protein_coding	chr1	3404739	3404886	+	1
## 5593	protein_coding	chr1	3405495	3405648	+	1
## 5594	protein_coding	chr1	3405495	3405648	+	1
## 5595	protein_coding	chr1	3411384	3412800	+	1
## 5596	protein_coding	chr1	3411384	3412800	+	1
## 5597	protein_coding	chr1	3414560	3414647	+	1
## 5598	protein_coding	chr1	3414560	3414647	+	1
## 5599	protein_coding	chr1	3417828	3417997	+	1
## 5600	protein_coding	chr1	3417828	3417997	+	1
## 5601	protein_coding	chr1	3418667	3418744	+	1
## 5602	protein_coding	chr1	3418667	3418744	+	1
## 5603	protein_coding	chr1	3425581	3425750	+	1
## 5604	protein_coding	chr1	3425581	3425750	+	1
## 5605	protein_coding	chr1	3426051	3426225	+	1

## 5606	protein_coding	chr1	3426051	3426225	+	1
## 5607	protein_coding	chr1	3430872	3431108	+	1
## 5608	protein_coding	chr1	3430872	3431108	+	1
## 5609	protein_coding	chr1	3431966	3432140	+	1
## 5610	protein_coding	chr1	3431966	3432140	+	1
## 5611	protein_coding	chr1	3433734	3435421	+	1
## 5612	protein_coding	chr1	3433734	3433808	+	1
## 5613	protein_coding	chr1	3433809	3433811	+	1
## 5614	protein_coding	chr1	3069197	3069259	+	1
## 5615	protein_coding	chr1	3433809	3435421	+	1
## 5616	protein_coding	chr1	3069203	3438621	+	1
## 5617	protein_coding	chr1	3069203	3069296	+	1
## 5618	protein_coding	chr1	3069260	3069296	+	1
## 5619	protein_coding	chr1	3069260	3069262	+	1
## 5620	protein_coding	chr1	3186125	3186474	+	1
## 5621	protein_coding	chr1	3186125	3186474	+	1
## 5622	protein_coding	chr1	3244087	3244137	+	1
## 5623	protein_coding	chr1	3244087	3244137	+	1
## 5624	protein_coding	chr1	3385152	3385286	+	1
## 5625	protein_coding	chr1	3385152	3385286	+	1
## 5626	protein_coding	chr1	3396491	3396593	+	1
## 5627	protein_coding	chr1	3396491	3396593	+	1
## 5628	protein_coding	chr1	3402791	3402998	+	1
## 5629	protein_coding	chr1	3402791	3402998	+	1
## 5630	protein_coding	chr1	3404739	3404886	+	1
## 5631	protein_coding	chr1	3404739	3404886	+	1
## 5632	protein_coding	chr1	3405495	3405648	+	1
## 5633	protein_coding	chr1	3405495	3405648	+	1
## 5634	protein_coding	chr1	3411384	3412800	+	1
## 5635	protein_coding	chr1	3411384	3412800	+	1
## 5636	protein_coding	chr1	3414560	3414647	+	1
## 5637	protein_coding	chr1	3414560	3414647	+	1
## 5638	protein_coding	chr1	3417828	3417997	+	1
## 5639	protein_coding	chr1	3417828	3417997	+	1
## 5640	protein_coding	chr1	3418667	3418744	+	1
## 5641	protein_coding	chr1	3418667	3418744	+	1
## 5642	protein_coding	chr1	3425581	3425750	+	1
## 5643	protein_coding	chr1	3425581	3425750	+	1
## 5644	protein_coding	chr1	3426051	3426225	+	1
## 5645	protein_coding	chr1	3426051	3426225	+	1
## 5646	protein_coding	chr1	3430872	3431108	+	1
## 5647	protein_coding	chr1	3430872	3431108	+	1
## 5648	protein_coding	chr1	3431966	3432140	+	1
## 5649	protein_coding	chr1	3431966	3432140	+	1
## 5650	protein_coding	chr1	3433677	3438621	+	1
## 5651	protein_coding	chr1	3433677	3433808	+	1
## 5652	protein_coding	chr1	3433809	3433811	+	1
## 5653	protein_coding	chr1	3069203	3069259	+	1
## 5654	protein_coding	chr1	3433809	3438621	+	1
## 5655	protein_coding	chr1	3069211	3434342	+	1
## 5656	protein_coding	chr1	3069211	3069296	+	1
## 5657	protein_coding	chr1	3069260	3069296	+	1
## 5658	protein_coding	chr1	3069260	3069262	+	1
## 5659	protein_coding	chr1	3186125	3186474	+	1

## 5660	protein_coding	chr1	3186125	3186474	+	1
## 5661	protein_coding	chr1	3244087	3244137	+	1
## 5662	protein_coding	chr1	3244087	3244137	+	1
## 5663	protein_coding	chr1	3385149	3385286	+	1
## 5664	protein_coding	chr1	3385149	3385286	+	1
## 5665	protein_coding	chr1	3396491	3396593	+	1
## 5666	protein_coding	chr1	3396491	3396593	+	1
## 5667	protein_coding	chr1	3402791	3402998	+	1
## 5668	protein_coding	chr1	3402791	3402998	+	1
## 5669	protein_coding	chr1	3404739	3404886	+	1
## 5670	protein_coding	chr1	3404739	3404886	+	1
## 5671	protein_coding	chr1	3405495	3405648	+	1
## 5672	protein_coding	chr1	3405495	3405648	+	1
## 5673	protein_coding	chr1	3411384	3412800	+	1
## 5674	protein_coding	chr1	3411384	3412800	+	1
## 5675	protein_coding	chr1	3414563	3414647	+	1
## 5676	protein_coding	chr1	3414563	3414647	+	1
## 5677	protein_coding	chr1	3417828	3417997	+	1
## 5678	protein_coding	chr1	3417828	3417997	+	1
## 5679	protein_coding	chr1	3418667	3418744	+	1
## 5680	protein_coding	chr1	3418667	3418744	+	1
## 5681	protein_coding	chr1	3425581	3425750	+	1
## 5682	protein_coding	chr1	3425581	3425750	+	1
## 5683	protein_coding	chr1	3426051	3426225	+	1
## 5684	protein_coding	chr1	3426051	3426225	+	1
## 5685	protein_coding	chr1	3430872	3431108	+	1
## 5686	protein_coding	chr1	3430872	3431108	+	1
## 5687	protein_coding	chr1	3433677	3434342	+	1
## 5688	protein_coding	chr1	3433677	3433686	+	1
## 5689	protein_coding	chr1	3433687	3433689	+	1
## 5690	protein_coding	chr1	3069211	3069259	+	1
## 5691	protein_coding	chr1	3433687	3434342	+	1
## 5692	miRNA	chr1	3127975	3128035	+	1
## 5693	miRNA	chr1	3127975	3128035	+	1
## 5694	miRNA	chr1	3127975	3128035	+	1
## 5695	lncRNA	chr1	3132927	3133709	-	0
## 5696	lncRNA	chr1	3132927	3133709	-	0
## 5697	lncRNA	chr1	3133573	3133709	-	0
## 5698	lncRNA	chr1	3132927	3133258	-	0
## 5699	TEC	chr1	3205988	3208664	+	0
## 5700	TEC	chr1	3205988	3208664	+	0
## 5701	TEC	chr1	3205988	3208664	+	0
## 5702	lncRNA	chr1	3306636	3310096	-	0
## 5703	lncRNA	chr1	3306636	3310096	-	0
## 5704	lncRNA	chr1	3306636	3310096	-	0
## 5705	lncRNA	chr1	3313052	3323149	-	0
## 5706	lncRNA	chr1	3313052	3323149	-	0
## 5707	lncRNA	chr1	3322884	3323149	-	0
## 5708	lncRNA	chr1	3313052	3313513	-	0
## 5709	lncRNA	chr1	3367815	3373928	-	0
## 5710	lncRNA	chr1	3367815	3373928	-	0
## 5711	lncRNA	chr1	3372952	3373928	-	0
## 5712	lncRNA	chr1	3367815	3369621	-	0
## 5713	protein_coding	chr1	3454665	3481113	+	1

## 5714	protein_coding	chr1	3454665	3481113	+	1
## 5715	protein_coding	chr1	3454665	3454811	+	1
## 5716	protein_coding	chr1	3463066	3463672	+	1
## 5717	protein_coding	chr1	3463085	3463672	+	1
## 5718	protein_coding	chr1	3463085	3463087	+	1
## 5719	protein_coding	chr1	3466148	3466193	+	1
## 5720	protein_coding	chr1	3466148	3466193	+	1
## 5721	protein_coding	chr1	3467168	3467337	+	1
## 5722	protein_coding	chr1	3467168	3467337	+	1
## 5723	protein_coding	chr1	3468880	3468936	+	1
## 5724	protein_coding	chr1	3468880	3468936	+	1
## 5725	protein_coding	chr1	3469433	3469593	+	1
## 5726	protein_coding	chr1	3469433	3469593	+	1
## 5727	protein_coding	chr1	3473078	3473230	+	1
## 5728	protein_coding	chr1	3473078	3473230	+	1
## 5729	protein_coding	chr1	3473393	3473522	+	1
## 5730	protein_coding	chr1	3473393	3473522	+	1
## 5731	protein_coding	chr1	3474708	3474782	+	1
## 5732	protein_coding	chr1	3474708	3474782	+	1
## 5733	protein_coding	chr1	3475970	3476062	+	1
## 5734	protein_coding	chr1	3475970	3476062	+	1
## 5735	protein_coding	chr1	3477875	3478026	+	1
## 5736	protein_coding	chr1	3477875	3478026	+	1
## 5737	protein_coding	chr1	3478424	3478612	+	1
## 5738	protein_coding	chr1	3478424	3478612	+	1
## 5739	protein_coding	chr1	3479517	3479590	+	1
## 5740	protein_coding	chr1	3479517	3479590	+	1
## 5741	protein_coding	chr1	3479812	3479913	+	1
## 5742	protein_coding	chr1	3479812	3479913	+	1
## 5743	protein_coding	chr1	3480448	3481113	+	1
## 5744	protein_coding	chr1	3480448	3480584	+	1
## 5745	protein_coding	chr1	3480585	3480587	+	1
## 5746	protein_coding	chr1	3454665	3454811	+	1
## 5747	protein_coding	chr1	3463066	3463084	+	1
## 5748	protein_coding	chr1	3480585	3481113	+	1
## 5749	protein_coding	chr1	3466005	3481113	+	1
## 5750	protein_coding	chr1	3466005	3466193	+	1
## 5751	protein_coding	chr1	3467168	3467337	+	1
## 5752	protein_coding	chr1	3468880	3468936	+	1
## 5753	protein_coding	chr1	3469433	3469593	+	1
## 5754	protein_coding	chr1	3469436	3469593	+	1
## 5755	protein_coding	chr1	3469436	3469438	+	1
## 5756	protein_coding	chr1	3473078	3473230	+	1
## 5757	protein_coding	chr1	3473078	3473230	+	1
## 5758	protein_coding	chr1	3473393	3473522	+	1
## 5759	protein_coding	chr1	3473393	3473522	+	1
## 5760	protein_coding	chr1	3474708	3474782	+	1
## 5761	protein_coding	chr1	3474708	3474782	+	1
## 5762	protein_coding	chr1	3475970	3476062	+	1
## 5763	protein_coding	chr1	3475970	3476062	+	1
## 5764	protein_coding	chr1	3477875	3478026	+	1
## 5765	protein_coding	chr1	3477875	3478026	+	1
## 5766	protein_coding	chr1	3478424	3478612	+	1
## 5767	protein_coding	chr1	3478424	3478612	+	1

## 5768	protein_coding	chr1	3479517	3479590	+	1
## 5769	protein_coding	chr1	3479517	3479590	+	1
## 5770	protein_coding	chr1	3479812	3479913	+	1
## 5771	protein_coding	chr1	3479812	3479913	+	1
## 5772	protein_coding	chr1	3480448	3481113	+	1
## 5773	protein_coding	chr1	3480448	3480584	+	1
## 5774	protein_coding	chr1	3480585	3480587	+	1
## 5775	protein_coding	chr1	3466005	3466193	+	1
## 5776	protein_coding	chr1	3467168	3467337	+	1
## 5777	protein_coding	chr1	3468880	3468936	+	1
## 5778	protein_coding	chr1	3469433	3469435	+	1
## 5779	protein_coding	chr1	3480585	3481113	+	1
## 5780	protein_coding	chr1	3466971	3481113	+	1
## 5781	protein_coding	chr1	3466971	3467337	+	1
## 5782	protein_coding	chr1	3468880	3468936	+	1
## 5783	protein_coding	chr1	3469433	3469593	+	1
## 5784	protein_coding	chr1	3469436	3469593	+	1
## 5785	protein_coding	chr1	3469436	3469438	+	1
## 5786	protein_coding	chr1	3473078	3473230	+	1
## 5787	protein_coding	chr1	3473078	3473230	+	1
## 5788	protein_coding	chr1	3473393	3473522	+	1
## 5789	protein_coding	chr1	3473393	3473522	+	1
## 5790	protein_coding	chr1	3474708	3474782	+	1
## 5791	protein_coding	chr1	3474708	3474782	+	1
## 5792	protein_coding	chr1	3475970	3476062	+	1
## 5793	protein_coding	chr1	3475970	3476062	+	1
## 5794	protein_coding	chr1	3477875	3478026	+	1
## 5795	protein_coding	chr1	3477875	3478026	+	1
## 5796	protein_coding	chr1	3478424	3478612	+	1
## 5797	protein_coding	chr1	3478424	3478612	+	1
## 5798	protein_coding	chr1	3479517	3479590	+	1
## 5799	protein_coding	chr1	3479517	3479590	+	1
## 5800	protein_coding	chr1	3479812	3479913	+	1
## 5801	protein_coding	chr1	3479812	3479913	+	1
## 5802	protein_coding	chr1	3480448	3481113	+	1
## 5803	protein_coding	chr1	3480448	3480584	+	1
## 5804	protein_coding	chr1	3480585	3480587	+	1
## 5805	protein_coding	chr1	3466971	3467337	+	1
## 5806	protein_coding	chr1	3468880	3468936	+	1
## 5807	protein_coding	chr1	3469433	3469435	+	1
## 5808	protein_coding	chr1	3480585	3481113	+	1
## 5809	lncRNA	chr1	3487246	3487627	+	0
## 5810	lncRNA	chr1	3487246	3487627	+	0
## 5811	lncRNA	chr1	3487246	3487627	+	0
## 5812	protein_coding	chr1	3487951	3611508	-	1
## 5813	protein_coding	chr1	3487951	3611508	-	1
## 5814	protein_coding	chr1	3611138	3611508	-	1
## 5815	protein_coding	chr1	3611138	3611268	-	1
## 5816	protein_coding	chr1	3611266	3611268	-	1
## 5817	protein_coding	chr1	3602466	3602600	-	1
## 5818	protein_coding	chr1	3602466	3602600	-	1
## 5819	protein_coding	chr1	3595338	3595447	-	1
## 5820	protein_coding	chr1	3595338	3595447	-	1
## 5821	protein_coding	chr1	3579825	3579929	-	1

## 5822	protein_coding	chr1	3579825	3579929	-	1
## 5823	protein_coding	chr1	3524124	3524246	-	1
## 5824	protein_coding	chr1	3524124	3524246	-	1
## 5825	protein_coding	chr1	3515402	3515527	-	1
## 5826	protein_coding	chr1	3515402	3515527	-	1
## 5827	protein_coding	chr1	3514550	3514672	-	1
## 5828	protein_coding	chr1	3514550	3514672	-	1
## 5829	protein_coding	chr1	3512006	3512128	-	1
## 5830	protein_coding	chr1	3512006	3512128	-	1
## 5831	protein_coding	chr1	3511550	3511687	-	1
## 5832	protein_coding	chr1	3511550	3511687	-	1
## 5833	protein_coding	chr1	3510783	3510902	-	1
## 5834	protein_coding	chr1	3510783	3510902	-	1
## 5835	protein_coding	chr1	3509870	3509992	-	1
## 5836	protein_coding	chr1	3509870	3509992	-	1
## 5837	protein_coding	chr1	3509075	3509245	-	1
## 5838	protein_coding	chr1	3509075	3509245	-	1
## 5839	protein_coding	chr1	3508558	3508689	-	1
## 5840	protein_coding	chr1	3508558	3508689	-	1
## 5841	protein_coding	chr1	3507795	3507923	-	1
## 5842	protein_coding	chr1	3507795	3507923	-	1
## 5843	protein_coding	chr1	3506108	3506236	-	1
## 5844	protein_coding	chr1	3506108	3506236	-	1
## 5845	protein_coding	chr1	3505422	3505556	-	1
## 5846	protein_coding	chr1	3505422	3505556	-	1
## 5847	protein_coding	chr1	3505208	3505342	-	1
## 5848	protein_coding	chr1	3505208	3505342	-	1
## 5849	protein_coding	chr1	3501796	3501921	-	1
## 5850	protein_coding	chr1	3501796	3501921	-	1
## 5851	protein_coding	chr1	3501177	3501308	-	1
## 5852	protein_coding	chr1	3501177	3501308	-	1
## 5853	protein_coding	chr1	3500966	3501094	-	1
## 5854	protein_coding	chr1	3500966	3501094	-	1
## 5855	protein_coding	chr1	3500633	3500764	-	1
## 5856	protein_coding	chr1	3500633	3500764	-	1
## 5857	protein_coding	chr1	3499796	3499924	-	1
## 5858	protein_coding	chr1	3499796	3499924	-	1
## 5859	protein_coding	chr1	3499588	3499716	-	1
## 5860	protein_coding	chr1	3499588	3499716	-	1
## 5861	protein_coding	chr1	3499138	3499266	-	1
## 5862	protein_coding	chr1	3499138	3499266	-	1
## 5863	protein_coding	chr1	3498698	3498826	-	1
## 5864	protein_coding	chr1	3498698	3498826	-	1
## 5865	protein_coding	chr1	3498371	3498499	-	1
## 5866	protein_coding	chr1	3498371	3498499	-	1
## 5867	protein_coding	chr1	3497233	3497361	-	1
## 5868	protein_coding	chr1	3497233	3497361	-	1
## 5869	protein_coding	chr1	3496988	3497119	-	1
## 5870	protein_coding	chr1	3496988	3497119	-	1
## 5871	protein_coding	chr1	3496655	3496783	-	1
## 5872	protein_coding	chr1	3496655	3496783	-	1
## 5873	protein_coding	chr1	3495890	3496018	-	1
## 5874	protein_coding	chr1	3495890	3496018	-	1
## 5875	protein_coding	chr1	3494613	3494741	-	1

## 5876	protein_coding	chr1	3494613	3494741	-	1
## 5877	protein_coding	chr1	3494371	3494499	-	1
## 5878	protein_coding	chr1	3494371	3494499	-	1
## 5879	protein_coding	chr1	3493996	3494124	-	1
## 5880	protein_coding	chr1	3493996	3494124	-	1
## 5881	protein_coding	chr1	3493771	3493899	-	1
## 5882	protein_coding	chr1	3493771	3493899	-	1
## 5883	protein_coding	chr1	3492639	3492767	-	1
## 5884	protein_coding	chr1	3492639	3492767	-	1
## 5885	protein_coding	chr1	3490912	3490959	-	1
## 5886	protein_coding	chr1	3490912	3490959	-	1
## 5887	protein_coding	chr1	3487951	3490589	-	1
## 5888	protein_coding	chr1	3490531	3490589	-	1
## 5889	protein_coding	chr1	3490528	3490530	-	1
## 5890	protein_coding	chr1	3611269	3611508	-	1
## 5891	protein_coding	chr1	3487951	3490530	-	1
## 5892	protein_coding	chr1	3489920	3531448	-	1
## 5893	protein_coding	chr1	3531080	3531448	-	1
## 5894	protein_coding	chr1	3531080	3531245	-	1
## 5895	protein_coding	chr1	3531243	3531245	-	1
## 5896	protein_coding	chr1	3524124	3524246	-	1
## 5897	protein_coding	chr1	3524124	3524246	-	1
## 5898	protein_coding	chr1	3515402	3515527	-	1
## 5899	protein_coding	chr1	3515402	3515527	-	1
## 5900	protein_coding	chr1	3514550	3514672	-	1
## 5901	protein_coding	chr1	3514550	3514672	-	1
## 5902	protein_coding	chr1	3512006	3512128	-	1
## 5903	protein_coding	chr1	3512006	3512128	-	1
## 5904	protein_coding	chr1	3511550	3511687	-	1
## 5905	protein_coding	chr1	3511550	3511687	-	1
## 5906	protein_coding	chr1	3510783	3510902	-	1
## 5907	protein_coding	chr1	3510783	3510902	-	1
## 5908	protein_coding	chr1	3509870	3509992	-	1
## 5909	protein_coding	chr1	3509870	3509992	-	1
## 5910	protein_coding	chr1	3509075	3509245	-	1
## 5911	protein_coding	chr1	3509075	3509245	-	1
## 5912	protein_coding	chr1	3508558	3508689	-	1
## 5913	protein_coding	chr1	3508558	3508689	-	1
## 5914	protein_coding	chr1	3507795	3507923	-	1
## 5915	protein_coding	chr1	3507795	3507923	-	1
## 5916	protein_coding	chr1	3506108	3506236	-	1
## 5917	protein_coding	chr1	3506108	3506236	-	1
## 5918	protein_coding	chr1	3505422	3505556	-	1
## 5919	protein_coding	chr1	3505422	3505556	-	1
## 5920	protein_coding	chr1	3505208	3505342	-	1
## 5921	protein_coding	chr1	3505208	3505342	-	1
## 5922	protein_coding	chr1	3501796	3501921	-	1
## 5923	protein_coding	chr1	3501796	3501921	-	1
## 5924	protein_coding	chr1	3501177	3501308	-	1
## 5925	protein_coding	chr1	3501177	3501308	-	1
## 5926	protein_coding	chr1	3500966	3501094	-	1
## 5927	protein_coding	chr1	3500966	3501094	-	1
## 5928	protein_coding	chr1	3500633	3500764	-	1
## 5929	protein_coding	chr1	3500633	3500764	-	1

## 5930	protein_coding	chr1	3499796	3499924	-	1
## 5931	protein_coding	chr1	3499796	3499924	-	1
## 5932	protein_coding	chr1	3499588	3499716	-	1
## 5933	protein_coding	chr1	3499588	3499716	-	1
## 5934	protein_coding	chr1	3498371	3498499	-	1
## 5935	protein_coding	chr1	3498371	3498499	-	1
## 5936	protein_coding	chr1	3497233	3497361	-	1
## 5937	protein_coding	chr1	3497233	3497361	-	1
## 5938	protein_coding	chr1	3496655	3496783	-	1
## 5939	protein_coding	chr1	3496655	3496783	-	1
## 5940	protein_coding	chr1	3495890	3496018	-	1
## 5941	protein_coding	chr1	3495890	3496018	-	1
## 5942	protein_coding	chr1	3494613	3494741	-	1
## 5943	protein_coding	chr1	3494613	3494741	-	1
## 5944	protein_coding	chr1	3494371	3494499	-	1
## 5945	protein_coding	chr1	3494371	3494499	-	1
## 5946	protein_coding	chr1	3493771	3493797	-	1
## 5947	protein_coding	chr1	3493771	3493797	-	1
## 5948	protein_coding	chr1	3492639	3492767	-	1
## 5949	protein_coding	chr1	3492639	3492767	-	1
## 5950	protein_coding	chr1	3490912	3490959	-	1
## 5951	protein_coding	chr1	3490912	3490959	-	1
## 5952	protein_coding	chr1	3489920	3490589	-	1
## 5953	protein_coding	chr1	3490531	3490589	-	1
## 5954	protein_coding	chr1	3490528	3490530	-	1
## 5955	protein_coding	chr1	3531246	3531448	-	1
## 5956	protein_coding	chr1	3489920	3490530	-	1
## 5957	miRNA	chr1	3560695	3560790	-	1
## 5958	miRNA	chr1	3560695	3560790	-	1
## 5959	miRNA	chr1	3560695	3560790	-	1
## 5960	lncRNA	chr1	3623190	3624743	-	0
## 5961	lncRNA	chr1	3623190	3624743	-	0
## 5962	lncRNA	chr1	3624632	3624743	-	0
## 5963	lncRNA	chr1	3624308	3624450	-	0
## 5964	lncRNA	chr1	3623190	3623556	-	0
## 5965	protein_coding	chr1	3625015	3630127	+	1
## 5966	protein_coding	chr1	3625015	3630127	+	1
## 5967	protein_coding	chr1	3625015	3625273	+	1
## 5968	protein_coding	chr1	3625073	3625273	+	1
## 5969	protein_coding	chr1	3625073	3625075	+	1
## 5970	protein_coding	chr1	3625424	3625515	+	1
## 5971	protein_coding	chr1	3625424	3625515	+	1
## 5972	protein_coding	chr1	3625713	3625889	+	1
## 5973	protein_coding	chr1	3625713	3625889	+	1
## 5974	protein_coding	chr1	3627500	3627653	+	1
## 5975	protein_coding	chr1	3627500	3627653	+	1
## 5976	protein_coding	chr1	3628409	3630127	+	1
## 5977	protein_coding	chr1	3628409	3628600	+	1
## 5978	protein_coding	chr1	3628601	3628603	+	1
## 5979	protein_coding	chr1	3625015	3625072	+	1
## 5980	protein_coding	chr1	3628601	3630127	+	1
## 5981	protein_coding	chr1	3625050	3630127	+	1
## 5982	protein_coding	chr1	3625050	3625273	+	1
## 5983	protein_coding	chr1	3625073	3625273	+	1

## 5984	protein_coding	chr1	3625073	3625075	+	1
## 5985	protein_coding	chr1	3625424	3625515	+	1
## 5986	protein_coding	chr1	3625424	3625515	+	1
## 5987	protein_coding	chr1	3627500	3627653	+	1
## 5988	protein_coding	chr1	3627500	3627653	+	1
## 5989	protein_coding	chr1	3628409	3630127	+	1
## 5990	protein_coding	chr1	3628409	3628600	+	1
## 5991	protein_coding	chr1	3628601	3628603	+	1
## 5992	protein_coding	chr1	3625050	3625072	+	1
## 5993	protein_coding	chr1	3628601	3630127	+	1
## 5994	protein_coding	chr1	3630767	3652761	-	1
## 5995	protein_coding	chr1	3630767	3650058	-	1
## 5996	protein_coding	chr1	3649931	3650058	-	1
## 5997	protein_coding	chr1	3649931	3649999	-	1
## 5998	protein_coding	chr1	3649997	3649999	-	1
## 5999	protein_coding	chr1	3647408	3647560	-	1
## 6000	protein_coding	chr1	3647408	3647560	-	1
## 6001	protein_coding	chr1	3646666	3646782	-	1
## 6002	protein_coding	chr1	3646666	3646782	-	1
## 6003	protein_coding	chr1	3638750	3638822	-	1
## 6004	protein_coding	chr1	3638750	3638822	-	1
## 6005	protein_coding	chr1	3636995	3637098	-	1
## 6006	protein_coding	chr1	3636995	3637098	-	1
## 6007	protein_coding	chr1	3635944	3636030	-	1
## 6008	protein_coding	chr1	3635944	3636030	-	1
## 6009	protein_coding	chr1	3635160	3635294	-	1
## 6010	protein_coding	chr1	3635160	3635294	-	1
## 6011	protein_coding	chr1	3634997	3635074	-	1
## 6012	protein_coding	chr1	3634997	3635074	-	1
## 6013	protein_coding	chr1	3633398	3633503	-	1
## 6014	protein_coding	chr1	3633398	3633503	-	1
## 6015	protein_coding	chr1	3632213	3632338	-	1
## 6016	protein_coding	chr1	3632213	3632338	-	1
## 6017	protein_coding	chr1	3630767	3631657	-	1
## 6018	protein_coding	chr1	3631401	3631657	-	1
## 6019	protein_coding	chr1	3631398	3631400	-	1
## 6020	protein_coding	chr1	3650000	3650058	-	1
## 6021	protein_coding	chr1	3630767	3631400	-	1
## 6022	protein_coding	chr1	3630770	3650103	-	1
## 6023	protein_coding	chr1	3649931	3650103	-	1
## 6024	protein_coding	chr1	3649931	3649999	-	1
## 6025	protein_coding	chr1	3649997	3649999	-	1
## 6026	protein_coding	chr1	3647408	3647560	-	1
## 6027	protein_coding	chr1	3647408	3647560	-	1
## 6028	protein_coding	chr1	3646666	3646782	-	1
## 6029	protein_coding	chr1	3646666	3646782	-	1
## 6030	protein_coding	chr1	3638750	3638822	-	1
## 6031	protein_coding	chr1	3638750	3638822	-	1
## 6032	protein_coding	chr1	3636995	3637098	-	1
## 6033	protein_coding	chr1	3636995	3637098	-	1
## 6034	protein_coding	chr1	3635944	3636030	-	1
## 6035	protein_coding	chr1	3635944	3636030	-	1
## 6036	protein_coding	chr1	3635160	3635294	-	1
## 6037	protein_coding	chr1	3635160	3635294	-	1

## 6038	protein_coding	chr1	3634997	3635074	-	1
## 6039	protein_coding	chr1	3634997	3635074	-	1
## 6040	protein_coding	chr1	3633398	3633503	-	1
## 6041	protein_coding	chr1	3633398	3633503	-	1
## 6042	protein_coding	chr1	3632213	3632338	-	1
## 6043	protein_coding	chr1	3632213	3632338	-	1
## 6044	protein_coding	chr1	3631466	3631657	-	1
## 6045	protein_coding	chr1	3631466	3631657	-	1
## 6046	protein_coding	chr1	3630770	3631117	-	1
## 6047	protein_coding	chr1	3630978	3631117	-	1
## 6048	protein_coding	chr1	3630975	3630977	-	1
## 6049	protein_coding	chr1	3650000	3650103	-	1
## 6050	protein_coding	chr1	3630770	3630977	-	1
## 6051	protein_coding	chr1	3652516	3736201	+	1
## 6052	protein_coding	chr1	3652516	3736201	+	1
## 6053	protein_coding	chr1	3652516	3652641	+	1
## 6054	protein_coding	chr1	3682333	3682430	+	1
## 6055	protein_coding	chr1	3682366	3682430	+	1
## 6056	protein_coding	chr1	3682366	3682368	+	1
## 6057	protein_coding	chr1	3683060	3683180	+	1
## 6058	protein_coding	chr1	3683060	3683180	+	1
## 6059	protein_coding	chr1	3707549	3707791	+	1
## 6060	protein_coding	chr1	3707549	3707791	+	1
## 6061	protein_coding	chr1	3722021	3722207	+	1
## 6062	protein_coding	chr1	3722021	3722207	+	1
## 6063	protein_coding	chr1	3723354	3723469	+	1
## 6064	protein_coding	chr1	3723354	3723469	+	1
## 6065	protein_coding	chr1	3727115	3727224	+	1
## 6066	protein_coding	chr1	3727115	3727224	+	1
## 6067	protein_coding	chr1	3727628	3727770	+	1
## 6068	protein_coding	chr1	3727628	3727770	+	1
## 6069	protein_coding	chr1	3728129	3728217	+	1
## 6070	protein_coding	chr1	3728129	3728217	+	1
## 6071	protein_coding	chr1	3729327	3729448	+	1
## 6072	protein_coding	chr1	3729327	3729448	+	1
## 6073	protein_coding	chr1	3730000	3730148	+	1
## 6074	protein_coding	chr1	3730000	3730148	+	1
## 6075	protein_coding	chr1	3730927	3731065	+	1
## 6076	protein_coding	chr1	3730927	3731065	+	1
## 6077	protein_coding	chr1	3731463	3731556	+	1
## 6078	protein_coding	chr1	3731463	3731556	+	1
## 6079	protein_coding	chr1	3732747	3736201	+	1
## 6080	protein_coding	chr1	3732747	3733076	+	1
## 6081	protein_coding	chr1	3733077	3733079	+	1
## 6082	protein_coding	chr1	3652516	3652641	+	1
## 6083	protein_coding	chr1	3682333	3682365	+	1
## 6084	protein_coding	chr1	3733077	3736201	+	1
## 6085	protein_coding	chr1	3652520	3736201	+	1
## 6086	protein_coding	chr1	3652520	3652641	+	1
## 6087	protein_coding	chr1	3682333	3682430	+	1
## 6088	protein_coding	chr1	3682366	3682430	+	1
## 6089	protein_coding	chr1	3682366	3682368	+	1
## 6090	protein_coding	chr1	3683060	3683180	+	1
## 6091	protein_coding	chr1	3683060	3683180	+	1

## 6092	protein_coding	chr1	3707549	3707791	+	1
## 6093	protein_coding	chr1	3707549	3707791	+	1
## 6094	protein_coding	chr1	3722021	3722207	+	1
## 6095	protein_coding	chr1	3722021	3722207	+	1
## 6096	protein_coding	chr1	3723354	3723469	+	1
## 6097	protein_coding	chr1	3723354	3723469	+	1
## 6098	protein_coding	chr1	3727115	3727224	+	1
## 6099	protein_coding	chr1	3727115	3727224	+	1
## 6100	protein_coding	chr1	3727628	3727770	+	1
## 6101	protein_coding	chr1	3727628	3727770	+	1
## 6102	protein_coding	chr1	3728129	3728217	+	1
## 6103	protein_coding	chr1	3728129	3728217	+	1
## 6104	protein_coding	chr1	3729327	3729448	+	1
## 6105	protein_coding	chr1	3729327	3729448	+	1
## 6106	protein_coding	chr1	3732747	3736201	+	1
## 6107	protein_coding	chr1	3732747	3732759	+	1
## 6108	protein_coding	chr1	3732760	3732762	+	1
## 6109	protein_coding	chr1	3652520	3652641	+	1
## 6110	protein_coding	chr1	3682333	3682365	+	1
## 6111	protein_coding	chr1	3732760	3736201	+	1
## 6112	protein_coding	chr1	3652565	3733292	+	1
## 6113	protein_coding	chr1	3652565	3652641	+	1
## 6114	protein_coding	chr1	3682333	3682430	+	1
## 6115	protein_coding	chr1	3682366	3682430	+	1
## 6116	protein_coding	chr1	3682366	3682368	+	1
## 6117	protein_coding	chr1	3683060	3683180	+	1
## 6118	protein_coding	chr1	3683060	3683180	+	1
## 6119	protein_coding	chr1	3707549	3707791	+	1
## 6120	protein_coding	chr1	3707549	3707791	+	1
## 6121	protein_coding	chr1	3722021	3722207	+	1
## 6122	protein_coding	chr1	3722021	3722207	+	1
## 6123	protein_coding	chr1	3723354	3723469	+	1
## 6124	protein_coding	chr1	3723354	3723469	+	1
## 6125	protein_coding	chr1	3727115	3727224	+	1
## 6126	protein_coding	chr1	3727115	3727224	+	1
## 6127	protein_coding	chr1	3727628	3727770	+	1
## 6128	protein_coding	chr1	3727628	3727770	+	1
## 6129	protein_coding	chr1	3728129	3728217	+	1
## 6130	protein_coding	chr1	3728129	3728217	+	1
## 6131	protein_coding	chr1	3729327	3729448	+	1
## 6132	protein_coding	chr1	3729327	3729448	+	1
## 6133	protein_coding	chr1	3730000	3730148	+	1
## 6134	protein_coding	chr1	3730000	3730148	+	1
## 6135	protein_coding	chr1	3730927	3731065	+	1
## 6136	protein_coding	chr1	3730927	3731065	+	1
## 6137	protein_coding	chr1	3732747	3733292	+	1
## 6138	protein_coding	chr1	3732747	3732759	+	1
## 6139	protein_coding	chr1	3732760	3732762	+	1
## 6140	protein_coding	chr1	3652565	3652641	+	1
## 6141	protein_coding	chr1	3682333	3682365	+	1
## 6142	protein_coding	chr1	3732760	3733292	+	1
## 6143	protein_coding	chr1	3652565	3736200	+	1
## 6144	protein_coding	chr1	3652565	3652641	+	1
## 6145	protein_coding	chr1	3682333	3682430	+	1

## 6146	protein_coding	chr1	3682366	3682430	+	1
## 6147	protein_coding	chr1	3682366	3682368	+	1
## 6148	protein_coding	chr1	3683060	3683180	+	1
## 6149	protein_coding	chr1	3683060	3683180	+	1
## 6150	protein_coding	chr1	3707549	3707791	+	1
## 6151	protein_coding	chr1	3707549	3707791	+	1
## 6152	protein_coding	chr1	3722021	3722207	+	1
## 6153	protein_coding	chr1	3722021	3722207	+	1
## 6154	protein_coding	chr1	3723354	3723469	+	1
## 6155	protein_coding	chr1	3723354	3723469	+	1
## 6156	protein_coding	chr1	3727115	3727224	+	1
## 6157	protein_coding	chr1	3727115	3727224	+	1
## 6158	protein_coding	chr1	3727628	3727770	+	1
## 6159	protein_coding	chr1	3727628	3727770	+	1
## 6160	protein_coding	chr1	3728129	3728217	+	1
## 6161	protein_coding	chr1	3728129	3728217	+	1
## 6162	protein_coding	chr1	3729327	3729448	+	1
## 6163	protein_coding	chr1	3729327	3729448	+	1
## 6164	protein_coding	chr1	3730927	3731065	+	1
## 6165	protein_coding	chr1	3730927	3731065	+	1
## 6166	protein_coding	chr1	3732747	3736200	+	1
## 6167	protein_coding	chr1	3732747	3733076	+	1
## 6168	protein_coding	chr1	3733077	3733079	+	1
## 6169	protein_coding	chr1	3652565	3652641	+	1
## 6170	protein_coding	chr1	3682333	3682365	+	1
## 6171	protein_coding	chr1	3733077	3736200	+	1
## 6172	protein_coding	chr1	3652565	3736200	+	1
## 6173	protein_coding	chr1	3652565	3652641	+	1
## 6174	protein_coding	chr1	3682333	3682430	+	1
## 6175	protein_coding	chr1	3682366	3682430	+	1
## 6176	protein_coding	chr1	3682366	3682368	+	1
## 6177	protein_coding	chr1	3683060	3683180	+	1
## 6178	protein_coding	chr1	3683060	3683180	+	1
## 6179	protein_coding	chr1	3707549	3707791	+	1
## 6180	protein_coding	chr1	3707549	3707791	+	1
## 6181	protein_coding	chr1	3722021	3722207	+	1
## 6182	protein_coding	chr1	3722021	3722207	+	1
## 6183	protein_coding	chr1	3723354	3723469	+	1
## 6184	protein_coding	chr1	3723354	3723469	+	1
## 6185	protein_coding	chr1	3727115	3727224	+	1
## 6186	protein_coding	chr1	3727115	3727224	+	1
## 6187	protein_coding	chr1	3727628	3727770	+	1
## 6188	protein_coding	chr1	3727628	3727770	+	1
## 6189	protein_coding	chr1	3728129	3728217	+	1
## 6190	protein_coding	chr1	3728129	3728217	+	1
## 6191	protein_coding	chr1	3729327	3729448	+	1
## 6192	protein_coding	chr1	3729327	3729448	+	1
## 6193	protein_coding	chr1	3731463	3731556	+	1
## 6194	protein_coding	chr1	3731463	3731556	+	1
## 6195	protein_coding	chr1	3732747	3736200	+	1
## 6196	protein_coding	chr1	3732747	3733076	+	1
## 6197	protein_coding	chr1	3733077	3733079	+	1
## 6198	protein_coding	chr1	3652565	3652641	+	1
## 6199	protein_coding	chr1	3682333	3682365	+	1

## 6200	protein_coding	chr1	3733077	3736200	+	1
## 6201	protein_coding	chr1	3682366	3733079	+	1
## 6202	protein_coding	chr1	3682366	3682430	+	1
## 6203	protein_coding	chr1	3682366	3682430	+	1
## 6204	protein_coding	chr1	3682366	3682368	+	1
## 6205	protein_coding	chr1	3683060	3683180	+	1
## 6206	protein_coding	chr1	3683060	3683180	+	1
## 6207	protein_coding	chr1	3707549	3707791	+	1
## 6208	protein_coding	chr1	3707549	3707791	+	1
## 6209	protein_coding	chr1	3722021	3722207	+	1
## 6210	protein_coding	chr1	3722021	3722207	+	1
## 6211	protein_coding	chr1	3723354	3723469	+	1
## 6212	protein_coding	chr1	3723354	3723469	+	1
## 6213	protein_coding	chr1	3727115	3727224	+	1
## 6214	protein_coding	chr1	3727115	3727224	+	1
## 6215	protein_coding	chr1	3727628	3727770	+	1
## 6216	protein_coding	chr1	3727628	3727770	+	1
## 6217	protein_coding	chr1	3728129	3728217	+	1
## 6218	protein_coding	chr1	3728129	3728217	+	1
## 6219	protein_coding	chr1	3729327	3729448	+	1
## 6220	protein_coding	chr1	3729327	3729448	+	1
## 6221	protein_coding	chr1	3730927	3731065	+	1
## 6222	protein_coding	chr1	3730927	3731065	+	1
## 6223	protein_coding	chr1	3732747	3733079	+	1
## 6224	protein_coding	chr1	3732747	3733076	+	1
## 6225	protein_coding	chr1	3733077	3733079	+	1
## 6226	protein_coding	chr1	3733077	3733079	+	1
## 6227	protein_coding	chr1	3682366	3733079	+	1
## 6228	protein_coding	chr1	3682366	3682430	+	1
## 6229	protein_coding	chr1	3682366	3682430	+	1
## 6230	protein_coding	chr1	3682366	3682368	+	1
## 6231	protein_coding	chr1	3683060	3683180	+	1
## 6232	protein_coding	chr1	3683060	3683180	+	1
## 6233	protein_coding	chr1	3707549	3707791	+	1
## 6234	protein_coding	chr1	3707549	3707791	+	1
## 6235	protein_coding	chr1	3722021	3722207	+	1
## 6236	protein_coding	chr1	3722021	3722207	+	1
## 6237	protein_coding	chr1	3723354	3723469	+	1
## 6238	protein_coding	chr1	3723354	3723469	+	1
## 6239	protein_coding	chr1	3727115	3727224	+	1
## 6240	protein_coding	chr1	3727115	3727224	+	1
## 6241	protein_coding	chr1	3727628	3727770	+	1
## 6242	protein_coding	chr1	3727628	3727770	+	1
## 6243	protein_coding	chr1	3728129	3728217	+	1
## 6244	protein_coding	chr1	3728129	3728217	+	1
## 6245	protein_coding	chr1	3729327	3729448	+	1
## 6246	protein_coding	chr1	3729327	3729448	+	1
## 6247	protein_coding	chr1	3731463	3731556	+	1
## 6248	protein_coding	chr1	3731463	3731556	+	1
## 6249	protein_coding	chr1	3732747	3733079	+	1
## 6250	protein_coding	chr1	3732747	3733076	+	1
## 6251	protein_coding	chr1	3733077	3733079	+	1
## 6252	protein_coding	chr1	3733077	3733079	+	1
## 6253	protein_coding	chr1	3690672	3733292	+	1

## 6254	protein_coding	chr1	3690672	3690944	+	1
## 6255	protein_coding	chr1	3690906	3690944	+	1
## 6256	protein_coding	chr1	3690906	3690908	+	1
## 6257	protein_coding	chr1	3707549	3707791	+	1
## 6258	protein_coding	chr1	3707549	3707791	+	1
## 6259	protein_coding	chr1	3722021	3722207	+	1
## 6260	protein_coding	chr1	3722021	3722207	+	1
## 6261	protein_coding	chr1	3723354	3723469	+	1
## 6262	protein_coding	chr1	3723354	3723469	+	1
## 6263	protein_coding	chr1	3727115	3727224	+	1
## 6264	protein_coding	chr1	3727115	3727224	+	1
## 6265	protein_coding	chr1	3727628	3727770	+	1
## 6266	protein_coding	chr1	3727628	3727770	+	1
## 6267	protein_coding	chr1	3728129	3728217	+	1
## 6268	protein_coding	chr1	3728129	3728217	+	1
## 6269	protein_coding	chr1	3729327	3729448	+	1
## 6270	protein_coding	chr1	3729327	3729448	+	1
## 6271	protein_coding	chr1	3730000	3730148	+	1
## 6272	protein_coding	chr1	3730000	3730148	+	1
## 6273	protein_coding	chr1	3730927	3731065	+	1
## 6274	protein_coding	chr1	3730927	3731065	+	1
## 6275	protein_coding	chr1	3732747	3733292	+	1
## 6276	protein_coding	chr1	3732747	3732759	+	1
## 6277	protein_coding	chr1	3732760	3732762	+	1
## 6278	protein_coding	chr1	3690672	3690905	+	1
## 6279	protein_coding	chr1	3732760	3733292	+	1
## 6280	protein_coding	chr1	3690672	3733292	+	1
## 6281	protein_coding	chr1	3690672	3690944	+	1
## 6282	protein_coding	chr1	3690906	3690944	+	1
## 6283	protein_coding	chr1	3690906	3690908	+	1
## 6284	protein_coding	chr1	3707549	3707791	+	1
## 6285	protein_coding	chr1	3707549	3707791	+	1
## 6286	protein_coding	chr1	3722021	3722207	+	1
## 6287	protein_coding	chr1	3722021	3722207	+	1
## 6288	protein_coding	chr1	3723354	3723469	+	1
## 6289	protein_coding	chr1	3723354	3723469	+	1
## 6290	protein_coding	chr1	3727115	3727224	+	1
## 6291	protein_coding	chr1	3727115	3727224	+	1
## 6292	protein_coding	chr1	3727628	3727770	+	1
## 6293	protein_coding	chr1	3727628	3727770	+	1
## 6294	protein_coding	chr1	3728129	3728217	+	1
## 6295	protein_coding	chr1	3728129	3728217	+	1
## 6296	protein_coding	chr1	3729327	3729448	+	1
## 6297	protein_coding	chr1	3729327	3729448	+	1
## 6298	protein_coding	chr1	3730927	3731065	+	1
## 6299	protein_coding	chr1	3730927	3731065	+	1
## 6300	protein_coding	chr1	3731463	3731556	+	1
## 6301	protein_coding	chr1	3731463	3731552	+	1
## 6302	protein_coding	chr1	3731553	3731555	+	1
## 6303	protein_coding	chr1	3732747	3733292	+	1
## 6304	protein_coding	chr1	3690672	3690905	+	1
## 6305	protein_coding	chr1	3731553	3731556	+	1
## 6306	protein_coding	chr1	3732747	3733292	+	1
## 6307	protein_coding	chr1	3690672	3736201	+	1

## 6308	protein_coding	chr1	3690672	3690944	+	1
## 6309	protein_coding	chr1	3690906	3690944	+	1
## 6310	protein_coding	chr1	3690906	3690908	+	1
## 6311	protein_coding	chr1	3707549	3707791	+	1
## 6312	protein_coding	chr1	3707549	3707791	+	1
## 6313	protein_coding	chr1	3722021	3722207	+	1
## 6314	protein_coding	chr1	3722021	3722207	+	1
## 6315	protein_coding	chr1	3723354	3723469	+	1
## 6316	protein_coding	chr1	3723354	3723469	+	1
## 6317	protein_coding	chr1	3727115	3727224	+	1
## 6318	protein_coding	chr1	3727115	3727224	+	1
## 6319	protein_coding	chr1	3727628	3727770	+	1
## 6320	protein_coding	chr1	3727628	3727770	+	1
## 6321	protein_coding	chr1	3728129	3728217	+	1
## 6322	protein_coding	chr1	3728129	3728217	+	1
## 6323	protein_coding	chr1	3729327	3729448	+	1
## 6324	protein_coding	chr1	3729327	3729448	+	1
## 6325	protein_coding	chr1	3730000	3730148	+	1
## 6326	protein_coding	chr1	3730000	3730148	+	1
## 6327	protein_coding	chr1	3730927	3731065	+	1
## 6328	protein_coding	chr1	3730927	3731065	+	1
## 6329	protein_coding	chr1	3731463	3731556	+	1
## 6330	protein_coding	chr1	3731463	3731556	+	1
## 6331	protein_coding	chr1	3732747	3736201	+	1
## 6332	protein_coding	chr1	3732747	3733076	+	1
## 6333	protein_coding	chr1	3733077	3733079	+	1
## 6334	protein_coding	chr1	3690672	3690905	+	1
## 6335	protein_coding	chr1	3733077	3736201	+	1
## 6336	protein_coding	chr1	3698058	3733091	+	1
## 6337	protein_coding	chr1	3698058	3698151	+	1
## 6338	protein_coding	chr1	3707549	3707791	+	1
## 6339	protein_coding	chr1	3707576	3707791	+	1
## 6340	protein_coding	chr1	3707576	3707578	+	1
## 6341	protein_coding	chr1	3722021	3722207	+	1
## 6342	protein_coding	chr1	3722021	3722207	+	1
## 6343	protein_coding	chr1	3723354	3723469	+	1
## 6344	protein_coding	chr1	3723354	3723469	+	1
## 6345	protein_coding	chr1	3727115	3727224	+	1
## 6346	protein_coding	chr1	3727115	3727224	+	1
## 6347	protein_coding	chr1	3727628	3727770	+	1
## 6348	protein_coding	chr1	3727628	3727770	+	1
## 6349	protein_coding	chr1	3728129	3728217	+	1
## 6350	protein_coding	chr1	3728129	3728217	+	1
## 6351	protein_coding	chr1	3729327	3729448	+	1
## 6352	protein_coding	chr1	3729327	3729448	+	1
## 6353	protein_coding	chr1	3730000	3730148	+	1
## 6354	protein_coding	chr1	3730000	3730148	+	1
## 6355	protein_coding	chr1	3730927	3731065	+	1
## 6356	protein_coding	chr1	3730927	3731065	+	1
## 6357	protein_coding	chr1	3731463	3731556	+	1
## 6358	protein_coding	chr1	3731463	3731556	+	1
## 6359	protein_coding	chr1	3732747	3733091	+	1
## 6360	protein_coding	chr1	3732747	3733076	+	1
## 6361	protein_coding	chr1	3733077	3733079	+	1

## 6362	protein_coding	chr1	3698058	3698151	+	1
## 6363	protein_coding	chr1	3707549	3707575	+	1
## 6364	protein_coding	chr1	3733077	3733091	+	1
## 6365	lncRNA	chr1	3658938	3668772	-	0
## 6366	lncRNA	chr1	3658938	3668772	-	0
## 6367	lncRNA	chr1	3668625	3668772	-	0
## 6368	lncRNA	chr1	3662153	3662265	-	0
## 6369	lncRNA	chr1	3658938	3659430	-	0
## 6370	lncRNA	chr1	3712200	3714298	-	0
## 6371	lncRNA	chr1	3712200	3714298	-	0
## 6372	lncRNA	chr1	3714187	3714298	-	0
## 6373	lncRNA	chr1	3712200	3712438	-	0
## 6374	transcribed_unitary_pseudogene	chr1	3735511	3747373	-	1
## 6375	transcribed_unitary_pseudogene	chr1	3735511	3745905	-	1
## 6376	transcribed_unitary_pseudogene	chr1	3745607	3745905	-	1
## 6377	transcribed_unitary_pseudogene	chr1	3743061	3743190	-	1
## 6378	transcribed_unitary_pseudogene	chr1	3742804	3742911	-	1
## 6379	transcribed_unitary_pseudogene	chr1	3740233	3740387	-	1
## 6380	transcribed_unitary_pseudogene	chr1	3738223	3738513	-	1
## 6381	transcribed_unitary_pseudogene	chr1	3736926	3737103	-	1
## 6382	transcribed_unitary_pseudogene	chr1	3735511	3735542	-	1
## 6383	transcribed_unitary_pseudogene	chr1	3737149	3747373	-	1
## 6384	transcribed_unitary_pseudogene	chr1	3745607	3747373	-	1
## 6385	transcribed_unitary_pseudogene	chr1	3743061	3743190	-	1
## 6386	transcribed_unitary_pseudogene	chr1	3742804	3742911	-	1
## 6387	transcribed_unitary_pseudogene	chr1	3740233	3740387	-	1
## 6388	transcribed_unitary_pseudogene	chr1	3737149	3738513	-	1
## 6389	transcribed_unitary_pseudogene	chr1	3738434	3746742	-	1
## 6390	transcribed_unitary_pseudogene	chr1	3746528	3746742	-	1
## 6391	transcribed_unitary_pseudogene	chr1	3745607	3746186	-	1
## 6392	transcribed_unitary_pseudogene	chr1	3743301	3743371	-	1
## 6393	transcribed_unitary_pseudogene	chr1	3743061	3743190	-	1
## 6394	transcribed_unitary_pseudogene	chr1	3742804	3742911	-	1
## 6395	transcribed_unitary_pseudogene	chr1	3740275	3740387	-	1
## 6396	transcribed_unitary_pseudogene	chr1	3739059	3739216	-	1
## 6397	transcribed_unitary_pseudogene	chr1	3738434	3738513	-	1
## 6398	misc_RNA	chr1	3736943	3737103	+	0
## 6399	misc_RNA	chr1	3736943	3737103	+	0
## 6400	misc_RNA	chr1	3736943	3737103	+	0
## 6401	protein_coding	chr1	3746460	3771645	+	1
## 6402	protein_coding	chr1	3752450	3771645	+	1
## 6403	protein_coding	chr1	3752450	3752799	+	1
## 6404	protein_coding	chr1	3752482	3752799	+	1
## 6405	protein_coding	chr1	3752482	3752484	+	1
## 6406	protein_coding	chr1	3754118	3754241	+	1
## 6407	protein_coding	chr1	3754118	3754241	+	1
## 6408	protein_coding	chr1	3755457	3755567	+	1
## 6409	protein_coding	chr1	3755457	3755567	+	1
## 6410	protein_coding	chr1	3756733	3756890	+	1
## 6411	protein_coding	chr1	3756733	3756890	+	1
## 6412	protein_coding	chr1	3761281	3761430	+	1
## 6413	protein_coding	chr1	3761281	3761430	+	1
## 6414	protein_coding	chr1	3762620	3762712	+	1
## 6415	protein_coding	chr1	3762620	3762712	+	1

## 6416	protein_coding	chr1	3763108	3763474	+	1
## 6417	protein_coding	chr1	3763108	3763474	+	1
## 6418	protein_coding	chr1	3763706	3763836	+	1
## 6419	protein_coding	chr1	3763706	3763836	+	1
## 6420	protein_coding	chr1	3766535	3766612	+	1
## 6421	protein_coding	chr1	3766535	3766612	+	1
## 6422	protein_coding	chr1	3767233	3767445	+	1
## 6423	protein_coding	chr1	3767233	3767445	+	1
## 6424	protein_coding	chr1	3769783	3769887	+	1
## 6425	protein_coding	chr1	3769783	3769887	+	1
## 6426	protein_coding	chr1	3771401	3771645	+	1
## 6427	protein_coding	chr1	3771401	3771520	+	1
## 6428	protein_coding	chr1	3771521	3771523	+	1
## 6429	protein_coding	chr1	3752450	3752481	+	1
## 6430	protein_coding	chr1	3771521	3771645	+	1
## 6431	protein_coding	chr1	3772761	3775982	+	1
## 6432	protein_coding	chr1	3772771	3775670	+	1
## 6433	protein_coding	chr1	3772771	3772788	+	1
## 6434	protein_coding	chr1	3773063	3773181	+	1
## 6435	protein_coding	chr1	3775299	3775670	+	1
## 6436	protein_coding	chr1	3775374	3775484	+	1
## 6437	protein_coding	chr1	3775374	3775376	+	1
## 6438	protein_coding	chr1	3775485	3775487	+	1
## 6439	protein_coding	chr1	3772771	3772788	+	1
## 6440	protein_coding	chr1	3773063	3773181	+	1
## 6441	protein_coding	chr1	3775299	3775373	+	1
## 6442	protein_coding	chr1	3775485	3775670	+	1
## 6443	protein_coding	chr1	3772787	3775982	+	1
## 6444	protein_coding	chr1	3772787	3772841	+	1
## 6445	protein_coding	chr1	3773063	3773181	+	1
## 6446	protein_coding	chr1	3775299	3775483	+	1
## 6447	protein_coding	chr1	3775374	3775483	+	1
## 6448	protein_coding	chr1	3775374	3775376	+	1
## 6449	protein_coding	chr1	3775795	3775982	+	1
## 6450	protein_coding	chr1	3775795	3775918	+	1
## 6451	protein_coding	chr1	3775919	3775921	+	1
## 6452	protein_coding	chr1	3772787	3772841	+	1
## 6453	protein_coding	chr1	3773063	3773181	+	1
## 6454	protein_coding	chr1	3775299	3775373	+	1
## 6455	protein_coding	chr1	3775919	3775982	+	1
## 6456	protein_coding	chr1	3778559	3796498	-	1
## 6457	protein_coding	chr1	3778559	3796498	-	1
## 6458	protein_coding	chr1	3795862	3796498	-	1
## 6459	protein_coding	chr1	3795862	3796476	-	1
## 6460	protein_coding	chr1	3796474	3796476	-	1
## 6461	protein_coding	chr1	3786849	3787310	-	1
## 6462	protein_coding	chr1	3786849	3787310	-	1
## 6463	protein_coding	chr1	3785087	3785203	-	1
## 6464	protein_coding	chr1	3785087	3785203	-	1
## 6465	protein_coding	chr1	3783996	3784111	-	1
## 6466	protein_coding	chr1	3783996	3784111	-	1
## 6467	protein_coding	chr1	3782661	3782763	-	1
## 6468	protein_coding	chr1	3782661	3782763	-	1
## 6469	protein_coding	chr1	3781512	3781601	-	1

## 6470	protein_coding	chr1	3781512	3781601	-	1
## 6471	protein_coding	chr1	3778559	3781336	-	1
## 6472	protein_coding	chr1	3781091	3781336	-	1
## 6473	protein_coding	chr1	3781088	3781090	-	1
## 6474	protein_coding	chr1	3796477	3796498	-	1
## 6475	protein_coding	chr1	3778559	3781090	-	1
## 6476	misc_RNA	chr1	3782815	3783111	+	1
## 6477	misc_RNA	chr1	3782815	3783111	+	1
## 6478	misc_RNA	chr1	3782815	3783111	+	1
## 6479	lncRNA	chr1	3785008	3785538	+	0
## 6480	lncRNA	chr1	3785008	3785538	+	0
## 6481	lncRNA	chr1	3785008	3785538	+	0
## 6482	protein_coding	chr1	3812086	3857214	-	1
## 6483	protein_coding	chr1	3812086	3857211	-	1
## 6484	protein_coding	chr1	3856889	3857211	-	1
## 6485	protein_coding	chr1	3852295	3852421	-	1
## 6486	protein_coding	chr1	3852295	3852407	-	1
## 6487	protein_coding	chr1	3852405	3852407	-	1
## 6488	protein_coding	chr1	3848608	3848781	-	1
## 6489	protein_coding	chr1	3848608	3848781	-	1
## 6490	protein_coding	chr1	3847475	3847613	-	1
## 6491	protein_coding	chr1	3847475	3847613	-	1
## 6492	protein_coding	chr1	3845289	3845351	-	1
## 6493	protein_coding	chr1	3845289	3845351	-	1
## 6494	protein_coding	chr1	3844907	3844983	-	1
## 6495	protein_coding	chr1	3844907	3844983	-	1
## 6496	protein_coding	chr1	3839608	3839776	-	1
## 6497	protein_coding	chr1	3839608	3839776	-	1
## 6498	protein_coding	chr1	3838964	3839119	-	1
## 6499	protein_coding	chr1	3838964	3839119	-	1
## 6500	protein_coding	chr1	3837292	3837519	-	1
## 6501	protein_coding	chr1	3837292	3837519	-	1
## 6502	protein_coding	chr1	3836495	3836692	-	1
## 6503	protein_coding	chr1	3836495	3836692	-	1
## 6504	protein_coding	chr1	3834925	3835092	-	1
## 6505	protein_coding	chr1	3834925	3835092	-	1
## 6506	protein_coding	chr1	3833862	3834035	-	1
## 6507	protein_coding	chr1	3833862	3834035	-	1
## 6508	protein_coding	chr1	3831046	3831222	-	1
## 6509	protein_coding	chr1	3831046	3831222	-	1
## 6510	protein_coding	chr1	3829791	3829997	-	1
## 6511	protein_coding	chr1	3829791	3829997	-	1
## 6512	protein_coding	chr1	3829266	3829373	-	1
## 6513	protein_coding	chr1	3829266	3829373	-	1
## 6514	protein_coding	chr1	3826708	3826744	-	1
## 6515	protein_coding	chr1	3826708	3826744	-	1
## 6516	protein_coding	chr1	3826370	3826436	-	1
## 6517	protein_coding	chr1	3826370	3826436	-	1
## 6518	protein_coding	chr1	3825758	3825866	-	1
## 6519	protein_coding	chr1	3825758	3825866	-	1
## 6520	protein_coding	chr1	3823424	3823562	-	1
## 6521	protein_coding	chr1	3823424	3823562	-	1
## 6522	protein_coding	chr1	3823174	3823241	-	1
## 6523	protein_coding	chr1	3823174	3823241	-	1

## 6524	protein_coding	chr1	3816280	3816370	-	1
## 6525	protein_coding	chr1	3816280	3816370	-	1
## 6526	protein_coding	chr1	3812086	3815517	-	1
## 6527	protein_coding	chr1	3815405	3815517	-	1
## 6528	protein_coding	chr1	3815402	3815404	-	1
## 6529	protein_coding	chr1	3856889	3857211	-	1
## 6530	protein_coding	chr1	3852408	3852421	-	1
## 6531	protein_coding	chr1	3812086	3815404	-	1
## 6532	protein_coding	chr1	3843109	3857214	-	1
## 6533	protein_coding	chr1	3856889	3857214	-	1
## 6534	protein_coding	chr1	3852295	3852421	-	1
## 6535	protein_coding	chr1	3852295	3852407	-	1
## 6536	protein_coding	chr1	3852405	3852407	-	1
## 6537	protein_coding	chr1	3848608	3848781	-	1
## 6538	protein_coding	chr1	3848608	3848781	-	1
## 6539	protein_coding	chr1	3847475	3847613	-	1
## 6540	protein_coding	chr1	3847475	3847613	-	1
## 6541	protein_coding	chr1	3845289	3845351	-	1
## 6542	protein_coding	chr1	3845289	3845351	-	1
## 6543	protein_coding	chr1	3844907	3844983	-	1
## 6544	protein_coding	chr1	3844907	3844983	-	1
## 6545	protein_coding	chr1	3843109	3843323	-	1
## 6546	protein_coding	chr1	3843158	3843323	-	1
## 6547	protein_coding	chr1	3843155	3843157	-	1
## 6548	protein_coding	chr1	3856889	3857214	-	1
## 6549	protein_coding	chr1	3852408	3852421	-	1
## 6550	protein_coding	chr1	3843109	3843157	-	1
## 6551	protein_coding	chr1	3857267	3885429	+	1
## 6552	protein_coding	chr1	3857267	3860490	+	1
## 6553	protein_coding	chr1	3857267	3857717	+	1
## 6554	protein_coding	chr1	3857604	3857717	+	1
## 6555	protein_coding	chr1	3857604	3857606	+	1
## 6556	protein_coding	chr1	3858718	3858844	+	1
## 6557	protein_coding	chr1	3858718	3858844	+	1
## 6558	protein_coding	chr1	3860420	3860490	+	1
## 6559	protein_coding	chr1	3860420	3860487	+	1
## 6560	protein_coding	chr1	3860488	3860490	+	1
## 6561	protein_coding	chr1	3857267	3857603	+	1
## 6562	protein_coding	chr1	3860488	3860490	+	1
## 6563	protein_coding	chr1	3857267	3885420	+	1
## 6564	protein_coding	chr1	3857267	3857717	+	1
## 6565	protein_coding	chr1	3857604	3857717	+	1
## 6566	protein_coding	chr1	3857604	3857606	+	1
## 6567	protein_coding	chr1	3858718	3858866	+	1
## 6568	protein_coding	chr1	3858718	3858866	+	1
## 6569	protein_coding	chr1	3865762	3866000	+	1
## 6570	protein_coding	chr1	3865762	3866000	+	1
## 6571	protein_coding	chr1	3867974	3868053	+	1
## 6572	protein_coding	chr1	3867974	3868053	+	1
## 6573	protein_coding	chr1	3869605	3869775	+	1
## 6574	protein_coding	chr1	3869605	3869775	+	1
## 6575	protein_coding	chr1	3872472	3872572	+	1
## 6576	protein_coding	chr1	3872472	3872572	+	1
## 6577	protein_coding	chr1	3883507	3885420	+	1

## 6578	protein_coding	chr1	3883507	3883738	+	1
## 6579	protein_coding	chr1	3883739	3883741	+	1
## 6580	protein_coding	chr1	3857267	3857603	+	1
## 6581	protein_coding	chr1	3883739	3885420	+	1
## 6582	protein_coding	chr1	3857281	3885429	+	1
## 6583	protein_coding	chr1	3857281	3857717	+	1
## 6584	protein_coding	chr1	3857604	3857717	+	1
## 6585	protein_coding	chr1	3857604	3857606	+	1
## 6586	protein_coding	chr1	3858718	3858844	+	1
## 6587	protein_coding	chr1	3858718	3858844	+	1
## 6588	protein_coding	chr1	3865812	3866000	+	1
## 6589	protein_coding	chr1	3865812	3866000	+	1
## 6590	protein_coding	chr1	3867974	3868053	+	1
## 6591	protein_coding	chr1	3867974	3868053	+	1
## 6592	protein_coding	chr1	3869605	3869775	+	1
## 6593	protein_coding	chr1	3869605	3869775	+	1
## 6594	protein_coding	chr1	3872472	3872572	+	1
## 6595	protein_coding	chr1	3872472	3872572	+	1
## 6596	protein_coding	chr1	3883507	3885429	+	1
## 6597	protein_coding	chr1	3883507	3883738	+	1
## 6598	protein_coding	chr1	3883739	3883741	+	1
## 6599	protein_coding	chr1	3857281	3857603	+	1
## 6600	protein_coding	chr1	3883739	3885429	+	1
## 6601	protein_coding	chr1	3857604	3883741	+	1
## 6602	protein_coding	chr1	3857604	3857717	+	1
## 6603	protein_coding	chr1	3857604	3857717	+	1
## 6604	protein_coding	chr1	3857604	3857606	+	1
## 6605	protein_coding	chr1	3858718	3858851	+	1
## 6606	protein_coding	chr1	3858718	3858849	+	1
## 6607	protein_coding	chr1	3872484	3872572	+	1
## 6608	protein_coding	chr1	3858850	3858851	+	1
## 6609	protein_coding	chr1	3872484	3872484	+	1
## 6610	protein_coding	chr1	3883507	3883741	+	1
## 6611	protein_coding	chr1	3858850	3858851	+	1
## 6612	protein_coding	chr1	3872484	3872572	+	1
## 6613	protein_coding	chr1	3883507	3883741	+	1
## 6614	protein_coding	chr1	3889125	3900293	-	1
## 6615	protein_coding	chr1	3889133	3900272	-	1
## 6616	protein_coding	chr1	3900172	3900272	-	1
## 6617	protein_coding	chr1	3900172	3900186	-	1
## 6618	protein_coding	chr1	3900184	3900186	-	1
## 6619	protein_coding	chr1	3892883	3892996	-	1
## 6620	protein_coding	chr1	3892883	3892996	-	1
## 6621	protein_coding	chr1	3890569	3891057	-	1
## 6622	protein_coding	chr1	3890569	3891057	-	1
## 6623	protein_coding	chr1	3889133	3890073	-	1
## 6624	protein_coding	chr1	3889963	3890073	-	1
## 6625	protein_coding	chr1	3889960	3889962	-	1
## 6626	protein_coding	chr1	3900187	3900272	-	1
## 6627	protein_coding	chr1	3889133	3889962	-	1
## 6628	lncRNA	chr1	3900352	3917225	+	1
## 6629	lncRNA	chr1	3900404	3917225	+	1
## 6630	lncRNA	chr1	3900404	3900631	+	1
## 6631	lncRNA	chr1	3914395	3917225	+	1

## 6632	lncRNA	chr1	3900416	3915447	+	1
## 6633	lncRNA	chr1	3900416	3900631	+	1
## 6634	lncRNA	chr1	3903965	3904036	+	1
## 6635	lncRNA	chr1	3913692	3914290	+	1
## 6636	lncRNA	chr1	3914395	3915447	+	1
## 6637	lncRNA	chr1	3940486	3955262	+	1
## 6638	lncRNA	chr1	3940617	3955262	+	1
## 6639	lncRNA	chr1	3940617	3940698	+	1
## 6640	lncRNA	chr1	3940994	3941143	+	1
## 6641	lncRNA	chr1	3952253	3955262	+	1
## 6642	lncRNA	chr1	3947756	3949866	+	1
## 6643	lncRNA	chr1	3947756	3948321	+	1
## 6644	lncRNA	chr1	3949027	3949866	+	1
## 6645	lncRNA	chr1	3944547	3949024	-	1
## 6646	lncRNA	chr1	3944547	3948900	-	1
## 6647	lncRNA	chr1	3948863	3948900	-	1
## 6648	lncRNA	chr1	3947957	3948595	-	1
## 6649	lncRNA	chr1	3947275	3947328	-	1
## 6650	lncRNA	chr1	3946320	3946463	-	1
## 6651	lncRNA	chr1	3945494	3945669	-	1
## 6652	lncRNA	chr1	3944547	3945141	-	1
## 6653	lncRNA	chr1	3976133	4012704	+	0
## 6654	lncRNA	chr1	3976133	4012704	+	0
## 6655	lncRNA	chr1	3976133	3976195	+	0
## 6656	lncRNA	chr1	3976882	3977102	+	0
## 6657	lncRNA	chr1	4012231	4012704	+	0
## 6658	lncRNA	chr1	3976140	3998058	+	0
## 6659	lncRNA	chr1	3976140	3976195	+	0
## 6660	lncRNA	chr1	3976882	3977157	+	0
## 6661	lncRNA	chr1	3995642	3995691	+	0
## 6662	lncRNA	chr1	3995785	3995830	+	0
## 6663	lncRNA	chr1	3996824	3996932	+	0
## 6664	lncRNA	chr1	3998056	3998058	+	0
## 6665	lncRNA	chr1	3976140	3998855	+	0
## 6666	lncRNA	chr1	3976140	3976195	+	0
## 6667	lncRNA	chr1	3976882	3977157	+	0
## 6668	lncRNA	chr1	3996807	3996932	+	0
## 6669	lncRNA	chr1	3998056	3998855	+	0
## 6670	lncRNA	chr1	4012921	4019508	-	0
## 6671	lncRNA	chr1	4012921	4019508	-	0
## 6672	lncRNA	chr1	4018478	4019508	-	0
## 6673	lncRNA	chr1	4012921	4016706	-	0
## 6674	processed_pseudogene	chr1	4175528	4175899	-	1
## 6675	processed_pseudogene	chr1	4175528	4175899	-	1
## 6676	processed_pseudogene	chr1	4175528	4175899	-	1
## 6677	lncRNA	chr1	4412027	4424689	+	1
## 6678	lncRNA	chr1	4412051	4424687	+	1
## 6679	lncRNA	chr1	4412051	4412632	+	1
## 6680	lncRNA	chr1	4415553	4415587	+	1
## 6681	lncRNA	chr1	4416312	4416548	+	1
## 6682	lncRNA	chr1	4422760	4423187	+	1
## 6683	lncRNA	chr1	4423348	4423448	+	1
## 6684	lncRNA	chr1	4423994	4424687	+	1
## 6685	lncRNA	chr1	4479131	4484375	-	0

## 6686	lncRNA	chr1	4479131	4484375	-	0
## 6687	lncRNA	chr1	4484194	4484375	-	0
## 6688	lncRNA	chr1	4479131	4482350	-	0
## 6689	lncRNA	chr1	4551735	4552145	-	0
## 6690	lncRNA	chr1	4551735	4552145	-	0
## 6691	lncRNA	chr1	4552105	4552145	-	0
## 6692	lncRNA	chr1	4551735	4552049	-	0
## 6693	lncRNA	chr1	4571481	4594016	+	1
## 6694	lncRNA	chr1	4571489	4594009	+	1
## 6695	lncRNA	chr1	4571489	4571629	+	1
## 6696	lncRNA	chr1	4572470	4572592	+	1
## 6697	lncRNA	chr1	4593052	4593190	+	1
## 6698	lncRNA	chr1	4593700	4594009	+	1
## 6699	lncRNA	chr1	4571504	4594009	+	1
## 6700	lncRNA	chr1	4571504	4571629	+	1
## 6701	lncRNA	chr1	4575322	4575450	+	1
## 6702	lncRNA	chr1	4593052	4594009	+	1
## 6703	lncRNA	chr1	4571516	4585094	+	1
## 6704	lncRNA	chr1	4571516	4571629	+	1
## 6705	lncRNA	chr1	4572470	4572592	+	1
## 6706	lncRNA	chr1	4583083	4583178	+	1
## 6707	lncRNA	chr1	4583897	4585094	+	1
## 6708	lncRNA	chr1	4571548	4583421	+	1
## 6709	lncRNA	chr1	4571548	4571629	+	1
## 6710	lncRNA	chr1	4572470	4572592	+	1
## 6711	lncRNA	chr1	4582277	4582574	+	1
## 6712	lncRNA	chr1	4583083	4583178	+	1
## 6713	lncRNA	chr1	4583339	4583421	+	1
## 6714	protein_coding	chr1	4654732	4792534	+	1
## 6715	protein_coding	chr1	4654732	4777794	+	1
## 6716	protein_coding	chr1	4654732	4655454	+	1
## 6717	protein_coding	chr1	4655426	4655454	+	1
## 6718	protein_coding	chr1	4655426	4655428	+	1
## 6719	protein_coding	chr1	4711900	4712699	+	1
## 6720	protein_coding	chr1	4711900	4712699	+	1
## 6721	protein_coding	chr1	4769853	4769940	+	1
## 6722	protein_coding	chr1	4769853	4769940	+	1
## 6723	protein_coding	chr1	4772280	4772525	+	1
## 6724	protein_coding	chr1	4772280	4772525	+	1
## 6725	protein_coding	chr1	4774427	4774558	+	1
## 6726	protein_coding	chr1	4774427	4774496	+	1
## 6727	protein_coding	chr1	4774497	4774499	+	1
## 6728	protein_coding	chr1	4777401	4777794	+	1
## 6729	protein_coding	chr1	4654732	4655425	+	1
## 6730	protein_coding	chr1	4774497	4774558	+	1
## 6731	protein_coding	chr1	4777401	4777794	+	1
## 6732	protein_coding	chr1	4655045	4792534	+	1
## 6733	protein_coding	chr1	4655045	4655454	+	1
## 6734	protein_coding	chr1	4655426	4655454	+	1
## 6735	protein_coding	chr1	4655426	4655428	+	1
## 6736	protein_coding	chr1	4711900	4712699	+	1
## 6737	protein_coding	chr1	4711900	4712699	+	1
## 6738	protein_coding	chr1	4769853	4769940	+	1
## 6739	protein_coding	chr1	4769853	4769940	+	1

## 6740	protein_coding	chr1	4772280	4772525	+	1
## 6741	protein_coding	chr1	4772280	4772525	+	1
## 6742	protein_coding	chr1	4774427	4774558	+	1
## 6743	protein_coding	chr1	4774427	4774496	+	1
## 6744	protein_coding	chr1	4774497	4774499	+	1
## 6745	protein_coding	chr1	4782545	4792534	+	1
## 6746	protein_coding	chr1	4655045	4655425	+	1
## 6747	protein_coding	chr1	4774497	4774558	+	1
## 6748	protein_coding	chr1	4782545	4792534	+	1
## 6749	lncRNA	chr1	4730211	4734992	-	0
## 6750	lncRNA	chr1	4730211	4733745	-	0
## 6751	lncRNA	chr1	4733536	4733745	-	0
## 6752	lncRNA	chr1	4730211	4733030	-	0
## 6753	lncRNA	chr1	4963954	4973298	-	0
## 6754	lncRNA	chr1	4963954	4973298	-	0
## 6755	lncRNA	chr1	4973107	4973298	-	0
## 6756	lncRNA	chr1	4964418	4964553	-	0
## 6757	lncRNA	chr1	4963954	4964089	-	0
## 6758	lncRNA	chr1	4973381	4981568	+	0
## 6759	lncRNA	chr1	4973381	4981568	+	0
## 6760	lncRNA	chr1	4973381	4973547	+	0
## 6761	lncRNA	chr1	4974295	4974381	+	0
## 6762	lncRNA	chr1	4974838	4974945	+	0
## 6763	lncRNA	chr1	4976962	4977091	+	0
## 6764	lncRNA	chr1	4980481	4981568	+	0
## 6765	lncRNA	chr1	5086459	5090899	-	0
## 6766	lncRNA	chr1	5086459	5090899	-	0
## 6767	lncRNA	chr1	5090733	5090899	-	0
## 6768	lncRNA	chr1	5090580	5090627	-	0
## 6769	lncRNA	chr1	5088251	5088373	-	0
## 6770	lncRNA	chr1	5086459	5086569	-	0
## 6771	lncRNA	chr1	5301928	5307394	-	0
## 6772	lncRNA	chr1	5301928	5307394	-	0
## 6773	lncRNA	chr1	5306942	5307394	-	0
## 6774	lncRNA	chr1	5304401	5305029	-	0
## 6775	lncRNA	chr1	5303328	5303393	-	0
## 6776	lncRNA	chr1	5301928	5302004	-	0
## 6777	lncRNA	chr1	5478736	5493057	-	0
## 6778	lncRNA	chr1	5489795	5493057	-	0
## 6779	lncRNA	chr1	5492755	5493057	-	0
## 6780	lncRNA	chr1	5492488	5492607	-	0
## 6781	lncRNA	chr1	5489795	5491581	-	0
## 6782	lncRNA	chr1	5490829	5492804	-	0
## 6783	lncRNA	chr1	5492755	5492804	-	0
## 6784	lncRNA	chr1	5492488	5492607	-	0
## 6785	lncRNA	chr1	5491144	5491581	-	0
## 6786	lncRNA	chr1	5490829	5491050	-	0
## 6787	lncRNA	chr1	5480787	5482028	-	0
## 6788	lncRNA	chr1	5480787	5482028	-	0
## 6789	lncRNA	chr1	5481956	5482028	-	0
## 6790	lncRNA	chr1	5480787	5481322	-	0
## 6791	lncRNA	chr1	5492978	5494674	+	0
## 6792	lncRNA	chr1	5492978	5494674	+	0
## 6793	lncRNA	chr1	5492978	5494674	+	0

## 6794	unprocessed_pseudogene	chr1	5554747	5554881	+	0
## 6795	unprocessed_pseudogene	chr1	5554747	5554881	+	0
## 6796	unprocessed_pseudogene	chr1	5554747	5554881	+	0
## 6797	lncRNA	chr1	5561709	5668295	-	0
## 6798	lncRNA	chr1	5561709	5668255	-	0
## 6799	lncRNA	chr1	5668141	5668255	-	0
## 6800	lncRNA	chr1	5563170	5563355	-	0
## 6801	lncRNA	chr1	5561709	5562254	-	0
## 6802	lncRNA	chr1	5587368	5668295	-	0
## 6803	lncRNA	chr1	5668141	5668295	-	0
## 6804	lncRNA	chr1	5587368	5587575	-	0
## 6805	miRNA	chr1	5564071	5564143	+	0
## 6806	miRNA	chr1	5564071	5564143	+	0
## 6807	miRNA	chr1	5564071	5564143	+	0
## 6808	miRNA	chr1	5862672	5862741	-	1
## 6809	miRNA	chr1	5862672	5862741	-	1
## 6810	miRNA	chr1	5862672	5862741	-	1
## 6811	protein_coding	chr1	5862811	5992473	-	1
## 6812	protein_coding	chr1	5862811	5992425	-	1
## 6813	protein_coding	chr1	5992244	5992425	-	1
## 6814	protein_coding	chr1	5986155	5986327	-	1
## 6815	protein_coding	chr1	5986155	5986289	-	1
## 6816	protein_coding	chr1	5986287	5986289	-	1
## 6817	protein_coding	chr1	5978270	5978413	-	1
## 6818	protein_coding	chr1	5978270	5978413	-	1
## 6819	protein_coding	chr1	5969087	5969259	-	1
## 6820	protein_coding	chr1	5969087	5969259	-	1
## 6821	protein_coding	chr1	5967299	5967363	-	1
## 6822	protein_coding	chr1	5967299	5967363	-	1
## 6823	protein_coding	chr1	5961794	5961949	-	1
## 6824	protein_coding	chr1	5961794	5961949	-	1
## 6825	protein_coding	chr1	5952700	5952836	-	1
## 6826	protein_coding	chr1	5952700	5952836	-	1
## 6827	protein_coding	chr1	5948070	5948251	-	1
## 6828	protein_coding	chr1	5948070	5948251	-	1
## 6829	protein_coding	chr1	5947104	5947230	-	1
## 6830	protein_coding	chr1	5947104	5947230	-	1
## 6831	protein_coding	chr1	5933147	5933329	-	1
## 6832	protein_coding	chr1	5933147	5933329	-	1
## 6833	protein_coding	chr1	5927649	5927787	-	1
## 6834	protein_coding	chr1	5927649	5927787	-	1
## 6835	protein_coding	chr1	5909152	5909213	-	1
## 6836	protein_coding	chr1	5909152	5909213	-	1
## 6837	protein_coding	chr1	5907115	5907222	-	1
## 6838	protein_coding	chr1	5907115	5907222	-	1
## 6839	protein_coding	chr1	5905632	5905783	-	1
## 6840	protein_coding	chr1	5905632	5905783	-	1
## 6841	protein_coding	chr1	5905292	5905483	-	1
## 6842	protein_coding	chr1	5905292	5905483	-	1
## 6843	protein_coding	chr1	5904617	5904804	-	1
## 6844	protein_coding	chr1	5904617	5904804	-	1
## 6845	protein_coding	chr1	5890868	5891028	-	1
## 6846	protein_coding	chr1	5890868	5891028	-	1
## 6847	protein_coding	chr1	5887286	5887466	-	1

## 6848	protein_coding	chr1	5887286	5887466	-	1
## 6849	protein_coding	chr1	5880114	5880239	-	1
## 6850	protein_coding	chr1	5880114	5880239	-	1
## 6851	protein_coding	chr1	5877093	5877298	-	1
## 6852	protein_coding	chr1	5877093	5877298	-	1
## 6853	protein_coding	chr1	5874874	5875100	-	1
## 6854	protein_coding	chr1	5874874	5875100	-	1
## 6855	protein_coding	chr1	5874471	5874657	-	1
## 6856	protein_coding	chr1	5874471	5874657	-	1
## 6857	protein_coding	chr1	5873252	5873335	-	1
## 6858	protein_coding	chr1	5873252	5873335	-	1
## 6859	protein_coding	chr1	5867740	5867896	-	1
## 6860	protein_coding	chr1	5867740	5867896	-	1
## 6861	protein_coding	chr1	5867030	5867115	-	1
## 6862	protein_coding	chr1	5867030	5867115	-	1
## 6863	protein_coding	chr1	5866373	5866458	-	1
## 6864	protein_coding	chr1	5866373	5866458	-	1
## 6865	protein_coding	chr1	5865102	5865273	-	1
## 6866	protein_coding	chr1	5865102	5865273	-	1
## 6867	protein_coding	chr1	5864338	5864517	-	1
## 6868	protein_coding	chr1	5864338	5864517	-	1
## 6869	protein_coding	chr1	5863890	5864033	-	1
## 6870	protein_coding	chr1	5863890	5864033	-	1
## 6871	protein_coding	chr1	5862811	5863405	-	1
## 6872	protein_coding	chr1	5863268	5863405	-	1
## 6873	protein_coding	chr1	5863265	5863267	-	1
## 6874	protein_coding	chr1	5992244	5992425	-	1
## 6875	protein_coding	chr1	5986290	5986327	-	1
## 6876	protein_coding	chr1	5862811	5863267	-	1
## 6877	protein_coding	chr1	5879505	5992473	-	1
## 6878	protein_coding	chr1	5992244	5992473	-	1
## 6879	protein_coding	chr1	5986155	5986327	-	1
## 6880	protein_coding	chr1	5986155	5986289	-	1
## 6881	protein_coding	chr1	5986287	5986289	-	1
## 6882	protein_coding	chr1	5978270	5978413	-	1
## 6883	protein_coding	chr1	5978270	5978413	-	1
## 6884	protein_coding	chr1	5969087	5969259	-	1
## 6885	protein_coding	chr1	5969087	5969259	-	1
## 6886	protein_coding	chr1	5967299	5967363	-	1
## 6887	protein_coding	chr1	5967299	5967363	-	1
## 6888	protein_coding	chr1	5961794	5961949	-	1
## 6889	protein_coding	chr1	5961794	5961949	-	1
## 6890	protein_coding	chr1	5952700	5952836	-	1
## 6891	protein_coding	chr1	5952700	5952836	-	1
## 6892	protein_coding	chr1	5948070	5948251	-	1
## 6893	protein_coding	chr1	5948070	5948251	-	1
## 6894	protein_coding	chr1	5947104	5947230	-	1
## 6895	protein_coding	chr1	5947104	5947230	-	1
## 6896	protein_coding	chr1	5933147	5933329	-	1
## 6897	protein_coding	chr1	5933147	5933329	-	1
## 6898	protein_coding	chr1	5927649	5927787	-	1
## 6899	protein_coding	chr1	5927649	5927787	-	1
## 6900	protein_coding	chr1	5909152	5909213	-	1
## 6901	protein_coding	chr1	5909152	5909213	-	1

## 6902	protein_coding	chr1	5907115	5907222	-	1
## 6903	protein_coding	chr1	5907115	5907222	-	1
## 6904	protein_coding	chr1	5905632	5905780	-	1
## 6905	protein_coding	chr1	5905632	5905780	-	1
## 6906	protein_coding	chr1	5905292	5905483	-	1
## 6907	protein_coding	chr1	5905292	5905483	-	1
## 6908	protein_coding	chr1	5904617	5904804	-	1
## 6909	protein_coding	chr1	5904617	5904804	-	1
## 6910	protein_coding	chr1	5890868	5891028	-	1
## 6911	protein_coding	chr1	5890868	5891028	-	1
## 6912	protein_coding	chr1	5887286	5887466	-	1
## 6913	protein_coding	chr1	5887286	5887466	-	1
## 6914	protein_coding	chr1	5880114	5880239	-	1
## 6915	protein_coding	chr1	5880114	5880239	-	1
## 6916	protein_coding	chr1	5879505	5879632	-	1
## 6917	protein_coding	chr1	5879508	5879632	-	1
## 6918	protein_coding	chr1	5879505	5879507	-	1
## 6919	protein_coding	chr1	5992244	5992473	-	1
## 6920	protein_coding	chr1	5986290	5986327	-	1
## 6921	protein_coding	chr1	5879505	5879507	-	1
## 6922	protein_coding	chr1	5990927	6101193	+	1
## 6923	protein_coding	chr1	5992262	6101193	+	1
## 6924	protein_coding	chr1	5992262	5992788	+	1
## 6925	protein_coding	chr1	6040517	6040645	+	1
## 6926	protein_coding	chr1	6040569	6040645	+	1
## 6927	protein_coding	chr1	6040569	6040571	+	1
## 6928	protein_coding	chr1	6041831	6041872	+	1
## 6929	protein_coding	chr1	6041831	6041872	+	1
## 6930	protein_coding	chr1	6072755	6072798	+	1
## 6931	protein_coding	chr1	6072755	6072798	+	1
## 6932	protein_coding	chr1	6073733	6073770	+	1
## 6933	protein_coding	chr1	6073733	6073770	+	1
## 6934	protein_coding	chr1	6082195	6082274	+	1
## 6935	protein_coding	chr1	6082195	6082274	+	1
## 6936	protein_coding	chr1	6085204	6085248	+	1
## 6937	protein_coding	chr1	6085204	6085248	+	1
## 6938	protein_coding	chr1	6087467	6087511	+	1
## 6939	protein_coding	chr1	6087467	6087511	+	1
## 6940	protein_coding	chr1	6089008	6089051	+	1
## 6941	protein_coding	chr1	6089008	6089051	+	1
## 6942	protein_coding	chr1	6090389	6090475	+	1
## 6943	protein_coding	chr1	6090389	6090475	+	1
## 6944	protein_coding	chr1	6094400	6094485	+	1
## 6945	protein_coding	chr1	6094400	6094485	+	1
## 6946	protein_coding	chr1	6095323	6095443	+	1
## 6947	protein_coding	chr1	6095323	6095443	+	1
## 6948	protein_coding	chr1	6095530	6095624	+	1
## 6949	protein_coding	chr1	6095530	6095624	+	1
## 6950	protein_coding	chr1	6096636	6096756	+	1
## 6951	protein_coding	chr1	6096636	6096756	+	1
## 6952	protein_coding	chr1	6097269	6097357	+	1
## 6953	protein_coding	chr1	6097269	6097357	+	1
## 6954	protein_coding	chr1	6098485	6101193	+	1
## 6955	protein_coding	chr1	6098485	6098571	+	1

## 6956	protein_coding	chr1	6098572	6098574	+	1
## 6957	protein_coding	chr1	5992262	5992788	+	1
## 6958	protein_coding	chr1	6040517	6040568	+	1
## 6959	protein_coding	chr1	6098572	6101193	+	1
## 6960	protein_coding	chr1	5992639	6101188	+	1
## 6961	protein_coding	chr1	5992639	5992788	+	1
## 6962	protein_coding	chr1	6040517	6040645	+	1
## 6963	protein_coding	chr1	6040569	6040645	+	1
## 6964	protein_coding	chr1	6040569	6040571	+	1
## 6965	protein_coding	chr1	6072755	6072798	+	1
## 6966	protein_coding	chr1	6072755	6072798	+	1
## 6967	protein_coding	chr1	6073733	6073770	+	1
## 6968	protein_coding	chr1	6073733	6073770	+	1
## 6969	protein_coding	chr1	6082195	6082274	+	1
## 6970	protein_coding	chr1	6082195	6082274	+	1
## 6971	protein_coding	chr1	6085204	6085248	+	1
## 6972	protein_coding	chr1	6085204	6085248	+	1
## 6973	protein_coding	chr1	6087467	6087511	+	1
## 6974	protein_coding	chr1	6087467	6087511	+	1
## 6975	protein_coding	chr1	6089008	6089051	+	1
## 6976	protein_coding	chr1	6089008	6089051	+	1
## 6977	protein_coding	chr1	6090389	6090475	+	1
## 6978	protein_coding	chr1	6090389	6090475	+	1
## 6979	protein_coding	chr1	6094400	6094485	+	1
## 6980	protein_coding	chr1	6094400	6094485	+	1
## 6981	protein_coding	chr1	6095323	6095443	+	1
## 6982	protein_coding	chr1	6095323	6095443	+	1
## 6983	protein_coding	chr1	6095530	6095624	+	1
## 6984	protein_coding	chr1	6095530	6095624	+	1
## 6985	protein_coding	chr1	6096636	6096756	+	1
## 6986	protein_coding	chr1	6096636	6096756	+	1
## 6987	protein_coding	chr1	6097269	6097357	+	1
## 6988	protein_coding	chr1	6097269	6097357	+	1
## 6989	protein_coding	chr1	6098485	6101188	+	1
## 6990	protein_coding	chr1	6098485	6098571	+	1
## 6991	protein_coding	chr1	6098572	6098574	+	1
## 6992	protein_coding	chr1	5992639	5992788	+	1
## 6993	protein_coding	chr1	6040517	6040568	+	1
## 6994	protein_coding	chr1	6098572	6101188	+	1
## 6995	protein_coding	chr1	5992666	6101178	+	1
## 6996	protein_coding	chr1	5992666	5992788	+	1
## 6997	protein_coding	chr1	6018635	6018835	+	1
## 6998	protein_coding	chr1	6040517	6040645	+	1
## 6999	protein_coding	chr1	6040569	6040645	+	1
## 7000	protein_coding	chr1	6040569	6040571	+	1
## 7001	protein_coding	chr1	6041831	6041872	+	1
## 7002	protein_coding	chr1	6041831	6041872	+	1
## 7003	protein_coding	chr1	6072755	6072798	+	1
## 7004	protein_coding	chr1	6072755	6072798	+	1
## 7005	protein_coding	chr1	6073733	6073770	+	1
## 7006	protein_coding	chr1	6073733	6073770	+	1
## 7007	protein_coding	chr1	6082195	6082274	+	1
## 7008	protein_coding	chr1	6082195	6082274	+	1
## 7009	protein_coding	chr1	6085204	6085248	+	1

## 7010	protein_coding	chr1	6085204	6085248	+	1
## 7011	protein_coding	chr1	6087467	6087511	+	1
## 7012	protein_coding	chr1	6087467	6087511	+	1
## 7013	protein_coding	chr1	6089008	6089051	+	1
## 7014	protein_coding	chr1	6089008	6089051	+	1
## 7015	protein_coding	chr1	6090389	6090475	+	1
## 7016	protein_coding	chr1	6090389	6090475	+	1
## 7017	protein_coding	chr1	6094400	6094485	+	1
## 7018	protein_coding	chr1	6094400	6094485	+	1
## 7019	protein_coding	chr1	6095323	6095443	+	1
## 7020	protein_coding	chr1	6095323	6095443	+	1
## 7021	protein_coding	chr1	6095530	6095624	+	1
## 7022	protein_coding	chr1	6095530	6095624	+	1
## 7023	protein_coding	chr1	6096636	6096756	+	1
## 7024	protein_coding	chr1	6096636	6096756	+	1
## 7025	protein_coding	chr1	6097269	6097357	+	1
## 7026	protein_coding	chr1	6097269	6097357	+	1
## 7027	protein_coding	chr1	6098485	6101178	+	1
## 7028	protein_coding	chr1	6098485	6098571	+	1
## 7029	protein_coding	chr1	6098572	6098574	+	1
## 7030	protein_coding	chr1	5992666	5992788	+	1
## 7031	protein_coding	chr1	6018635	6018835	+	1
## 7032	protein_coding	chr1	6040517	6040568	+	1
## 7033	protein_coding	chr1	6098572	6101178	+	1
## 7034	protein_coding	chr1	5992711	6101178	+	1
## 7035	protein_coding	chr1	5992711	5992788	+	1
## 7036	protein_coding	chr1	6040517	6040645	+	1
## 7037	protein_coding	chr1	6040569	6040645	+	1
## 7038	protein_coding	chr1	6040569	6040571	+	1
## 7039	protein_coding	chr1	6072755	6072798	+	1
## 7040	protein_coding	chr1	6072755	6072798	+	1
## 7041	protein_coding	chr1	6073733	6073770	+	1
## 7042	protein_coding	chr1	6073733	6073770	+	1
## 7043	protein_coding	chr1	6082195	6082274	+	1
## 7044	protein_coding	chr1	6082195	6082274	+	1
## 7045	protein_coding	chr1	6085204	6085248	+	1
## 7046	protein_coding	chr1	6085204	6085248	+	1
## 7047	protein_coding	chr1	6087467	6087511	+	1
## 7048	protein_coding	chr1	6087467	6087511	+	1
## 7049	protein_coding	chr1	6089008	6089051	+	1
## 7050	protein_coding	chr1	6089008	6089051	+	1
## 7051	protein_coding	chr1	6090389	6090475	+	1
## 7052	protein_coding	chr1	6090389	6090475	+	1
## 7053	protein_coding	chr1	6094400	6094485	+	1
## 7054	protein_coding	chr1	6094400	6094485	+	1
## 7055	protein_coding	chr1	6095323	6095443	+	1
## 7056	protein_coding	chr1	6095323	6095443	+	1
## 7057	protein_coding	chr1	6095530	6095624	+	1
## 7058	protein_coding	chr1	6095530	6095624	+	1
## 7059	protein_coding	chr1	6096636	6096756	+	1
## 7060	protein_coding	chr1	6096636	6096756	+	1
## 7061	protein_coding	chr1	6097269	6097357	+	1
## 7062	protein_coding	chr1	6097269	6097357	+	1
## 7063	protein_coding	chr1	6097517	6097555	+	1

## 7064	protein_coding	chr1	6097517	6097528	+	1
## 7065	protein_coding	chr1	6097529	6097531	+	1
## 7066	protein_coding	chr1	6098485	6101178	+	1
## 7067	protein_coding	chr1	5992711	5992788	+	1
## 7068	protein_coding	chr1	6040517	6040568	+	1
## 7069	protein_coding	chr1	6097529	6097555	+	1
## 7070	protein_coding	chr1	6098485	6101178	+	1
## 7071	protein_coding	chr1	5992753	6101190	+	1
## 7072	protein_coding	chr1	5992753	5992788	+	1
## 7073	protein_coding	chr1	6040517	6040645	+	1
## 7074	protein_coding	chr1	6040569	6040645	+	1
## 7075	protein_coding	chr1	6040569	6040571	+	1
## 7076	protein_coding	chr1	6041831	6041872	+	1
## 7077	protein_coding	chr1	6041831	6041872	+	1
## 7078	protein_coding	chr1	6072755	6072798	+	1
## 7079	protein_coding	chr1	6072755	6072798	+	1
## 7080	protein_coding	chr1	6073733	6073770	+	1
## 7081	protein_coding	chr1	6073733	6073770	+	1
## 7082	protein_coding	chr1	6082195	6082274	+	1
## 7083	protein_coding	chr1	6082195	6082274	+	1
## 7084	protein_coding	chr1	6085204	6085248	+	1
## 7085	protein_coding	chr1	6085204	6085248	+	1
## 7086	protein_coding	chr1	6087467	6087511	+	1
## 7087	protein_coding	chr1	6087467	6087511	+	1
## 7088	protein_coding	chr1	6089008	6089051	+	1
## 7089	protein_coding	chr1	6089008	6089051	+	1
## 7090	protein_coding	chr1	6090389	6090475	+	1
## 7091	protein_coding	chr1	6090389	6090475	+	1
## 7092	protein_coding	chr1	6091263	6091307	+	1
## 7093	protein_coding	chr1	6091263	6091307	+	1
## 7094	protein_coding	chr1	6094400	6094485	+	1
## 7095	protein_coding	chr1	6094400	6094485	+	1
## 7096	protein_coding	chr1	6095323	6095443	+	1
## 7097	protein_coding	chr1	6095323	6095443	+	1
## 7098	protein_coding	chr1	6095530	6095624	+	1
## 7099	protein_coding	chr1	6095530	6095624	+	1
## 7100	protein_coding	chr1	6096636	6096756	+	1
## 7101	protein_coding	chr1	6096636	6096756	+	1
## 7102	protein_coding	chr1	6097269	6097357	+	1
## 7103	protein_coding	chr1	6097269	6097357	+	1
## 7104	protein_coding	chr1	6098485	6101190	+	1
## 7105	protein_coding	chr1	6098485	6098571	+	1
## 7106	protein_coding	chr1	6098572	6098574	+	1
## 7107	protein_coding	chr1	5992753	5992788	+	1
## 7108	protein_coding	chr1	6040517	6040568	+	1
## 7109	protein_coding	chr1	6098572	6101190	+	1
## 7110	protein_coding	chr1	5992760	6086371	+	1
## 7111	protein_coding	chr1	5992760	5992788	+	1
## 7112	protein_coding	chr1	6040517	6040645	+	1
## 7113	protein_coding	chr1	6040569	6040645	+	1
## 7114	protein_coding	chr1	6040569	6040571	+	1
## 7115	protein_coding	chr1	6072755	6072798	+	1
## 7116	protein_coding	chr1	6072755	6072798	+	1
## 7117	protein_coding	chr1	6073733	6073770	+	1

## 7118	protein_coding	chr1	6073733	6073770	+	1
## 7119	protein_coding	chr1	6082195	6082274	+	1
## 7120	protein_coding	chr1	6082195	6082274	+	1
## 7121	protein_coding	chr1	6085204	6085248	+	1
## 7122	protein_coding	chr1	6085204	6085248	+	1
## 7123	protein_coding	chr1	6085740	6086371	+	1
## 7124	protein_coding	chr1	6085740	6086046	+	1
## 7125	protein_coding	chr1	6086047	6086049	+	1
## 7126	protein_coding	chr1	5992760	5992788	+	1
## 7127	protein_coding	chr1	6040517	6040568	+	1
## 7128	protein_coding	chr1	6086047	6086371	+	1
## 7129	protein_coding	chr1	6026013	6099119	+	1
## 7130	protein_coding	chr1	6026013	6026445	+	1
## 7131	protein_coding	chr1	6040517	6040645	+	1
## 7132	protein_coding	chr1	6040569	6040645	+	1
## 7133	protein_coding	chr1	6040569	6040571	+	1
## 7134	protein_coding	chr1	6041831	6041872	+	1
## 7135	protein_coding	chr1	6041831	6041872	+	1
## 7136	protein_coding	chr1	6072755	6072798	+	1
## 7137	protein_coding	chr1	6072755	6072798	+	1
## 7138	protein_coding	chr1	6073733	6073770	+	1
## 7139	protein_coding	chr1	6073733	6073770	+	1
## 7140	protein_coding	chr1	6082195	6082274	+	1
## 7141	protein_coding	chr1	6082195	6082274	+	1
## 7142	protein_coding	chr1	6085204	6085248	+	1
## 7143	protein_coding	chr1	6085204	6085248	+	1
## 7144	protein_coding	chr1	6087467	6087511	+	1
## 7145	protein_coding	chr1	6087467	6087511	+	1
## 7146	protein_coding	chr1	6089008	6089051	+	1
## 7147	protein_coding	chr1	6089008	6089051	+	1
## 7148	protein_coding	chr1	6090389	6090475	+	1
## 7149	protein_coding	chr1	6090389	6090475	+	1
## 7150	protein_coding	chr1	6094400	6094485	+	1
## 7151	protein_coding	chr1	6094400	6094485	+	1
## 7152	protein_coding	chr1	6095323	6095443	+	1
## 7153	protein_coding	chr1	6095323	6095443	+	1
## 7154	protein_coding	chr1	6095530	6095624	+	1
## 7155	protein_coding	chr1	6095530	6095624	+	1
## 7156	protein_coding	chr1	6096636	6096756	+	1
## 7157	protein_coding	chr1	6096636	6096756	+	1
## 7158	protein_coding	chr1	6097269	6097357	+	1
## 7159	protein_coding	chr1	6097269	6097357	+	1
## 7160	protein_coding	chr1	6098485	6099119	+	1
## 7161	protein_coding	chr1	6098485	6098571	+	1
## 7162	protein_coding	chr1	6098572	6098574	+	1
## 7163	protein_coding	chr1	6026013	6026445	+	1
## 7164	protein_coding	chr1	6040517	6040568	+	1
## 7165	protein_coding	chr1	6098572	6099119	+	1
## 7166	protein_coding	chr1	6026163	6101178	+	1
## 7167	protein_coding	chr1	6026163	6026445	+	1
## 7168	protein_coding	chr1	6040517	6040645	+	1
## 7169	protein_coding	chr1	6040569	6040645	+	1
## 7170	protein_coding	chr1	6040569	6040571	+	1
## 7171	protein_coding	chr1	6072755	6072798	+	1

## 7172	protein_coding	chr1	6072755	6072798	+	1
## 7173	protein_coding	chr1	6073733	6073770	+	1
## 7174	protein_coding	chr1	6073733	6073770	+	1
## 7175	protein_coding	chr1	6082195	6082274	+	1
## 7176	protein_coding	chr1	6082195	6082274	+	1
## 7177	protein_coding	chr1	6085204	6085248	+	1
## 7178	protein_coding	chr1	6085204	6085248	+	1
## 7179	protein_coding	chr1	6087467	6087511	+	1
## 7180	protein_coding	chr1	6087467	6087511	+	1
## 7181	protein_coding	chr1	6089008	6089051	+	1
## 7182	protein_coding	chr1	6089008	6089051	+	1
## 7183	protein_coding	chr1	6090389	6090475	+	1
## 7184	protein_coding	chr1	6090389	6090475	+	1
## 7185	protein_coding	chr1	6094400	6094485	+	1
## 7186	protein_coding	chr1	6094400	6094485	+	1
## 7187	protein_coding	chr1	6095323	6095443	+	1
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## 7189	protein_coding	chr1	6095530	6095624	+	1
## 7190	protein_coding	chr1	6095530	6095624	+	1
## 7191	protein_coding	chr1	6096636	6096756	+	1
## 7192	protein_coding	chr1	6096636	6096756	+	1
## 7193	protein_coding	chr1	6097269	6097357	+	1
## 7194	protein_coding	chr1	6097269	6097357	+	1
## 7195	protein_coding	chr1	6098485	6101178	+	1
## 7196	protein_coding	chr1	6098485	6098571	+	1
## 7197	protein_coding	chr1	6098572	6098574	+	1
## 7198	protein_coding	chr1	6026163	6026445	+	1
## 7199	protein_coding	chr1	6040517	6040568	+	1
## 7200	protein_coding	chr1	6098572	6101178	+	1
## 7201	protein_coding	chr1	6026272	6086366	+	1
## 7202	protein_coding	chr1	6026272	6026445	+	1
## 7203	protein_coding	chr1	6040517	6040645	+	1
## 7204	protein_coding	chr1	6040569	6040645	+	1
## 7205	protein_coding	chr1	6040569	6040571	+	1
## 7206	protein_coding	chr1	6072755	6072798	+	1
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## 7208	protein_coding	chr1	6073733	6073770	+	1
## 7209	protein_coding	chr1	6073733	6073770	+	1
## 7210	protein_coding	chr1	6082195	6082274	+	1
## 7211	protein_coding	chr1	6082195	6082274	+	1
## 7212	protein_coding	chr1	6085204	6085248	+	1
## 7213	protein_coding	chr1	6085204	6085248	+	1
## 7214	protein_coding	chr1	6086158	6086366	+	1
## 7215	protein_coding	chr1	6086158	6086311	+	1
## 7216	protein_coding	chr1	6086312	6086314	+	1
## 7217	protein_coding	chr1	6026272	6026445	+	1
## 7218	protein_coding	chr1	6040517	6040568	+	1
## 7219	protein_coding	chr1	6086312	6086366	+	1
## 7220	protein_coding	chr1	6026294	6086363	+	1
## 7221	protein_coding	chr1	6026294	6026445	+	1
## 7222	protein_coding	chr1	6040517	6040645	+	1
## 7223	protein_coding	chr1	6040569	6040645	+	1
## 7224	protein_coding	chr1	6040569	6040571	+	1
## 7225	protein_coding	chr1	6041831	6041872	+	1

## 7226	protein_coding	chr1	6041831	6041872	+	1
## 7227	protein_coding	chr1	6072755	6072798	+	1
## 7228	protein_coding	chr1	6072755	6072798	+	1
## 7229	protein_coding	chr1	6073733	6073770	+	1
## 7230	protein_coding	chr1	6073733	6073770	+	1
## 7231	protein_coding	chr1	6082195	6082274	+	1
## 7232	protein_coding	chr1	6082195	6082274	+	1
## 7233	protein_coding	chr1	6085204	6085248	+	1
## 7234	protein_coding	chr1	6085204	6085248	+	1
## 7235	protein_coding	chr1	6086158	6086363	+	1
## 7236	protein_coding	chr1	6086158	6086311	+	1
## 7237	protein_coding	chr1	6086312	6086314	+	1
## 7238	protein_coding	chr1	6026294	6026445	+	1
## 7239	protein_coding	chr1	6040517	6040568	+	1
## 7240	protein_coding	chr1	6086312	6086363	+	1
## 7241	protein_coding	chr1	6026320	6098561	+	1
## 7242	protein_coding	chr1	6026320	6026445	+	1
## 7243	protein_coding	chr1	6040517	6040645	+	1
## 7244	protein_coding	chr1	6040569	6040645	+	1
## 7245	protein_coding	chr1	6040569	6040571	+	1
## 7246	protein_coding	chr1	6041831	6041872	+	1
## 7247	protein_coding	chr1	6041831	6041872	+	1
## 7248	protein_coding	chr1	6072755	6072798	+	1
## 7249	protein_coding	chr1	6072755	6072798	+	1
## 7250	protein_coding	chr1	6073733	6073770	+	1
## 7251	protein_coding	chr1	6073733	6073770	+	1
## 7252	protein_coding	chr1	6082195	6082274	+	1
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## 7254	protein_coding	chr1	6085204	6085248	+	1
## 7255	protein_coding	chr1	6085204	6085248	+	1
## 7256	protein_coding	chr1	6087467	6087511	+	1
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## 7259	protein_coding	chr1	6089008	6089051	+	1
## 7260	protein_coding	chr1	6090389	6090475	+	1
## 7261	protein_coding	chr1	6090389	6090475	+	1
## 7262	protein_coding	chr1	6094400	6094485	+	1
## 7263	protein_coding	chr1	6094400	6094485	+	1
## 7264	protein_coding	chr1	6095323	6095443	+	1
## 7265	protein_coding	chr1	6095323	6095443	+	1
## 7266	protein_coding	chr1	6095530	6095624	+	1
## 7267	protein_coding	chr1	6095530	6095624	+	1
## 7268	protein_coding	chr1	6096636	6096756	+	1
## 7269	protein_coding	chr1	6096636	6096756	+	1
## 7270	protein_coding	chr1	6097269	6098561	+	1
## 7271	protein_coding	chr1	6097269	6097528	+	1
## 7272	protein_coding	chr1	6097529	6097531	+	1
## 7273	protein_coding	chr1	6026320	6026445	+	1
## 7274	protein_coding	chr1	6040517	6040568	+	1
## 7275	protein_coding	chr1	6097529	6098561	+	1
## 7276	protein_coding	chr1	6026345	6086363	+	1
## 7277	protein_coding	chr1	6026345	6026445	+	1
## 7278	protein_coding	chr1	6040517	6040645	+	1
## 7279	protein_coding	chr1	6040569	6040645	+	1

## 7280	protein_coding	chr1	6040569	6040571	+	1
## 7281	protein_coding	chr1	6072755	6072798	+	1
## 7282	protein_coding	chr1	6072755	6072798	+	1
## 7283	protein_coding	chr1	6073733	6073770	+	1
## 7284	protein_coding	chr1	6073733	6073770	+	1
## 7285	protein_coding	chr1	6082195	6082274	+	1
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## 7287	protein_coding	chr1	6085204	6086363	+	1
## 7288	protein_coding	chr1	6085204	6085249	+	1
## 7289	protein_coding	chr1	6085250	6085252	+	1
## 7290	protein_coding	chr1	6026345	6026445	+	1
## 7291	protein_coding	chr1	6040517	6040568	+	1
## 7292	protein_coding	chr1	6085250	6086363	+	1
## 7293	protein_coding	chr1	6026347	6082816	+	1
## 7294	protein_coding	chr1	6026347	6026445	+	1
## 7295	protein_coding	chr1	6040517	6040645	+	1
## 7296	protein_coding	chr1	6040569	6040645	+	1
## 7297	protein_coding	chr1	6040569	6040571	+	1
## 7298	protein_coding	chr1	6072755	6072798	+	1
## 7299	protein_coding	chr1	6072755	6072798	+	1
## 7300	protein_coding	chr1	6073733	6073770	+	1
## 7301	protein_coding	chr1	6073733	6073770	+	1
## 7302	protein_coding	chr1	6082195	6082816	+	1
## 7303	protein_coding	chr1	6082195	6082407	+	1
## 7304	protein_coding	chr1	6082408	6082410	+	1
## 7305	protein_coding	chr1	6026347	6026445	+	1
## 7306	protein_coding	chr1	6040517	6040568	+	1
## 7307	protein_coding	chr1	6082408	6082816	+	1
## 7308	protein_coding	chr1	6027297	6101180	+	1
## 7309	protein_coding	chr1	6027297	6027459	+	1
## 7310	protein_coding	chr1	6040517	6040645	+	1
## 7311	protein_coding	chr1	6040569	6040645	+	1
## 7312	protein_coding	chr1	6040569	6040571	+	1
## 7313	protein_coding	chr1	6072755	6072798	+	1
## 7314	protein_coding	chr1	6072755	6072798	+	1
## 7315	protein_coding	chr1	6073733	6073770	+	1
## 7316	protein_coding	chr1	6073733	6073770	+	1
## 7317	protein_coding	chr1	6082195	6082274	+	1
## 7318	protein_coding	chr1	6082195	6082274	+	1
## 7319	protein_coding	chr1	6085204	6085248	+	1
## 7320	protein_coding	chr1	6085204	6085248	+	1
## 7321	protein_coding	chr1	6087467	6087511	+	1
## 7322	protein_coding	chr1	6087467	6087511	+	1
## 7323	protein_coding	chr1	6089008	6089051	+	1
## 7324	protein_coding	chr1	6089008	6089051	+	1
## 7325	protein_coding	chr1	6090389	6090475	+	1
## 7326	protein_coding	chr1	6090389	6090475	+	1
## 7327	protein_coding	chr1	6094400	6094485	+	1
## 7328	protein_coding	chr1	6094400	6094485	+	1
## 7329	protein_coding	chr1	6095323	6095443	+	1
## 7330	protein_coding	chr1	6095323	6095443	+	1
## 7331	protein_coding	chr1	6095530	6095624	+	1
## 7332	protein_coding	chr1	6095530	6095624	+	1
## 7333	protein_coding	chr1	6096636	6096756	+	1

## 7334	protein_coding	chr1	6096636	6096756	+	1
## 7335	protein_coding	chr1	6097269	6097357	+	1
## 7336	protein_coding	chr1	6097269	6097357	+	1
## 7337	protein_coding	chr1	6098485	6101180	+	1
## 7338	protein_coding	chr1	6098485	6098571	+	1
## 7339	protein_coding	chr1	6098572	6098574	+	1
## 7340	protein_coding	chr1	6027297	6027459	+	1
## 7341	protein_coding	chr1	6040517	6040568	+	1
## 7342	protein_coding	chr1	6098572	6101180	+	1
## 7343	protein_coding	chr1	6034283	6101179	+	1
## 7344	protein_coding	chr1	6034283	6034794	+	1
## 7345	protein_coding	chr1	6040517	6040645	+	1
## 7346	protein_coding	chr1	6040569	6040645	+	1
## 7347	protein_coding	chr1	6040569	6040571	+	1
## 7348	protein_coding	chr1	6041831	6041872	+	1
## 7349	protein_coding	chr1	6041831	6041872	+	1
## 7350	protein_coding	chr1	6072755	6072798	+	1
## 7351	protein_coding	chr1	6072755	6072798	+	1
## 7352	protein_coding	chr1	6073733	6073770	+	1
## 7353	protein_coding	chr1	6073733	6073770	+	1
## 7354	protein_coding	chr1	6082195	6082274	+	1
## 7355	protein_coding	chr1	6082195	6082274	+	1
## 7356	protein_coding	chr1	6085204	6085248	+	1
## 7357	protein_coding	chr1	6085204	6085248	+	1
## 7358	protein_coding	chr1	6087467	6087511	+	1
## 7359	protein_coding	chr1	6087467	6087511	+	1
## 7360	protein_coding	chr1	6089008	6089051	+	1
## 7361	protein_coding	chr1	6089008	6089051	+	1
## 7362	protein_coding	chr1	6090389	6090475	+	1
## 7363	protein_coding	chr1	6090389	6090475	+	1
## 7364	protein_coding	chr1	6094400	6094485	+	1
## 7365	protein_coding	chr1	6094400	6094485	+	1
## 7366	protein_coding	chr1	6095323	6095443	+	1
## 7367	protein_coding	chr1	6095323	6095443	+	1
## 7368	protein_coding	chr1	6095530	6095624	+	1
## 7369	protein_coding	chr1	6095530	6095624	+	1
## 7370	protein_coding	chr1	6096636	6096756	+	1
## 7371	protein_coding	chr1	6096636	6096756	+	1
## 7372	protein_coding	chr1	6097269	6097357	+	1
## 7373	protein_coding	chr1	6097269	6097357	+	1
## 7374	protein_coding	chr1	6098485	6101179	+	1
## 7375	protein_coding	chr1	6098485	6098571	+	1
## 7376	protein_coding	chr1	6098572	6098574	+	1
## 7377	protein_coding	chr1	6034283	6034794	+	1
## 7378	protein_coding	chr1	6040517	6040568	+	1
## 7379	protein_coding	chr1	6098572	6101179	+	1
## 7380	protein_coding	chr1	6034677	6098213	+	1
## 7381	protein_coding	chr1	6034677	6034963	+	1
## 7382	protein_coding	chr1	6040517	6040645	+	1
## 7383	protein_coding	chr1	6040569	6040645	+	1
## 7384	protein_coding	chr1	6040569	6040571	+	1
## 7385	protein_coding	chr1	6041831	6041872	+	1
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## 7387	protein_coding	chr1	6072755	6072798	+	1

## 7388	protein_coding	chr1	6072755	6072798	+	1
## 7389	protein_coding	chr1	6073733	6073770	+	1
## 7390	protein_coding	chr1	6073733	6073770	+	1
## 7391	protein_coding	chr1	6082195	6082274	+	1
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## 7393	protein_coding	chr1	6085204	6085248	+	1
## 7394	protein_coding	chr1	6085204	6085248	+	1
## 7395	protein_coding	chr1	6087467	6087511	+	1
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## 7397	protein_coding	chr1	6089008	6089051	+	1
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## 7399	protein_coding	chr1	6090389	6090475	+	1
## 7400	protein_coding	chr1	6090389	6090475	+	1
## 7401	protein_coding	chr1	6094400	6094485	+	1
## 7402	protein_coding	chr1	6094400	6094485	+	1
## 7403	protein_coding	chr1	6095323	6095443	+	1
## 7404	protein_coding	chr1	6095323	6095443	+	1
## 7405	protein_coding	chr1	6095530	6095624	+	1
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## 7407	protein_coding	chr1	6096636	6096756	+	1
## 7408	protein_coding	chr1	6096636	6096756	+	1
## 7409	protein_coding	chr1	6097269	6098213	+	1
## 7410	protein_coding	chr1	6097269	6097528	+	1
## 7411	protein_coding	chr1	6097529	6097531	+	1
## 7412	protein_coding	chr1	6034677	6034963	+	1
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## 7415	protein_coding	chr1	6034980	6098723	+	1
## 7416	protein_coding	chr1	6034980	6035172	+	1
## 7417	protein_coding	chr1	6040517	6040645	+	1
## 7418	protein_coding	chr1	6040569	6040645	+	1
## 7419	protein_coding	chr1	6040569	6040571	+	1
## 7420	protein_coding	chr1	6041831	6041872	+	1
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## 7424	protein_coding	chr1	6073733	6073770	+	1
## 7425	protein_coding	chr1	6073733	6073770	+	1
## 7426	protein_coding	chr1	6082195	6082274	+	1
## 7427	protein_coding	chr1	6082195	6082274	+	1
## 7428	protein_coding	chr1	6085204	6085248	+	1
## 7429	protein_coding	chr1	6085204	6085248	+	1
## 7430	protein_coding	chr1	6087467	6087511	+	1
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## 7432	protein_coding	chr1	6089008	6089051	+	1
## 7433	protein_coding	chr1	6089008	6089051	+	1
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## 7438	protein_coding	chr1	6095323	6095443	+	1
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## 7440	protein_coding	chr1	6095530	6095624	+	1
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## 7442	protein_coding	chr1	6096636	6096756	+	1
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## 7444	protein_coding	chr1	6097269	6097357	+	1
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## 7448	protein_coding	chr1	6098572	6098574	+	1
## 7449	protein_coding	chr1	6034980	6035172	+	1
## 7450	protein_coding	chr1	6040517	6040568	+	1
## 7451	protein_coding	chr1	6098572	6098723	+	1
## 7452	protein_coding	chr1	6035090	6086362	+	1
## 7453	protein_coding	chr1	6035090	6035172	+	1
## 7454	protein_coding	chr1	6040517	6040645	+	1
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## 7456	protein_coding	chr1	6040569	6040571	+	1
## 7457	protein_coding	chr1	6041831	6041872	+	1
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## 7459	protein_coding	chr1	6072755	6072798	+	1
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## 7461	protein_coding	chr1	6073733	6073770	+	1
## 7462	protein_coding	chr1	6073733	6073770	+	1
## 7463	protein_coding	chr1	6082195	6082274	+	1
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## 7465	protein_coding	chr1	6085204	6085248	+	1
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## 7469	protein_coding	chr1	6086158	6086362	+	1
## 7470	protein_coding	chr1	6086158	6086311	+	1
## 7471	protein_coding	chr1	6086312	6086314	+	1
## 7472	protein_coding	chr1	6035090	6035172	+	1
## 7473	protein_coding	chr1	6040517	6040568	+	1
## 7474	protein_coding	chr1	6086312	6086362	+	1
## 7475	protein_coding	chr1	6045921	6101179	+	1
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## 7477	protein_coding	chr1	6051511	6051754	+	1
## 7478	protein_coding	chr1	6051537	6051754	+	1
## 7479	protein_coding	chr1	6051537	6051539	+	1
## 7480	protein_coding	chr1	6072755	6072798	+	1
## 7481	protein_coding	chr1	6072755	6072798	+	1
## 7482	protein_coding	chr1	6073733	6073770	+	1
## 7483	protein_coding	chr1	6073733	6073770	+	1
## 7484	protein_coding	chr1	6082195	6082274	+	1
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## 7486	protein_coding	chr1	6085204	6085248	+	1
## 7487	protein_coding	chr1	6085204	6085248	+	1
## 7488	protein_coding	chr1	6087467	6087511	+	1
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## 7490	protein_coding	chr1	6089008	6089051	+	1
## 7491	protein_coding	chr1	6089008	6089051	+	1
## 7492	protein_coding	chr1	6090389	6090475	+	1
## 7493	protein_coding	chr1	6090389	6090475	+	1
## 7494	protein_coding	chr1	6091263	6091307	+	1
## 7495	protein_coding	chr1	6091263	6091307	+	1

## 7496	protein_coding	chr1	6094400	6094485	+	1
## 7497	protein_coding	chr1	6094400	6094485	+	1
## 7498	protein_coding	chr1	6095323	6095443	+	1
## 7499	protein_coding	chr1	6095323	6095443	+	1
## 7500	protein_coding	chr1	6095530	6095624	+	1
## 7501	protein_coding	chr1	6095530	6095624	+	1
## 7502	protein_coding	chr1	6096636	6096756	+	1
## 7503	protein_coding	chr1	6096636	6096756	+	1
## 7504	protein_coding	chr1	6097269	6097357	+	1
## 7505	protein_coding	chr1	6097269	6097357	+	1
## 7506	protein_coding	chr1	6098485	6101179	+	1
## 7507	protein_coding	chr1	6098485	6098571	+	1
## 7508	protein_coding	chr1	6098572	6098574	+	1
## 7509	protein_coding	chr1	6045921	6046183	+	1
## 7510	protein_coding	chr1	6051511	6051536	+	1
## 7511	protein_coding	chr1	6098572	6101179	+	1
## 7512	protein_coding	chr1	6046114	6098855	+	1
## 7513	protein_coding	chr1	6046114	6046183	+	1
## 7514	protein_coding	chr1	6072755	6072798	+	1
## 7515	protein_coding	chr1	6073733	6073770	+	1
## 7516	protein_coding	chr1	6082195	6082274	+	1
## 7517	protein_coding	chr1	6082195	6082274	+	1
## 7518	protein_coding	chr1	6082195	6082197	+	1
## 7519	protein_coding	chr1	6085204	6085248	+	1
## 7520	protein_coding	chr1	6085204	6085248	+	1
## 7521	protein_coding	chr1	6087467	6087511	+	1
## 7522	protein_coding	chr1	6087467	6087511	+	1
## 7523	protein_coding	chr1	6089008	6089051	+	1
## 7524	protein_coding	chr1	6089008	6089051	+	1
## 7525	protein_coding	chr1	6090389	6090475	+	1
## 7526	protein_coding	chr1	6090389	6090475	+	1
## 7527	protein_coding	chr1	6094400	6094485	+	1
## 7528	protein_coding	chr1	6094400	6094485	+	1
## 7529	protein_coding	chr1	6095323	6095443	+	1
## 7530	protein_coding	chr1	6095323	6095443	+	1
## 7531	protein_coding	chr1	6095530	6095624	+	1
## 7532	protein_coding	chr1	6095530	6095624	+	1
## 7533	protein_coding	chr1	6096636	6096756	+	1
## 7534	protein_coding	chr1	6096636	6096756	+	1
## 7535	protein_coding	chr1	6097269	6097357	+	1
## 7536	protein_coding	chr1	6097269	6097357	+	1
## 7537	protein_coding	chr1	6098485	6098855	+	1
## 7538	protein_coding	chr1	6098485	6098571	+	1
## 7539	protein_coding	chr1	6098572	6098574	+	1
## 7540	protein_coding	chr1	6046114	6046183	+	1
## 7541	protein_coding	chr1	6072755	6072798	+	1
## 7542	protein_coding	chr1	6073733	6073770	+	1
## 7543	protein_coding	chr1	6098572	6098855	+	1
## 7544	protein_coding	chr1	6065753	6100023	+	1
## 7545	protein_coding	chr1	6065753	6066276	+	1
## 7546	protein_coding	chr1	6066065	6066276	+	1
## 7547	protein_coding	chr1	6066065	6066067	+	1
## 7548	protein_coding	chr1	6072755	6072798	+	1
## 7549	protein_coding	chr1	6072755	6072798	+	1

## 7550	protein_coding	chr1	6073733	6073770	+	1
## 7551	protein_coding	chr1	6073733	6073770	+	1
## 7552	protein_coding	chr1	6082195	6082274	+	1
## 7553	protein_coding	chr1	6082195	6082274	+	1
## 7554	protein_coding	chr1	6085204	6085248	+	1
## 7555	protein_coding	chr1	6085204	6085248	+	1
## 7556	protein_coding	chr1	6087467	6087511	+	1
## 7557	protein_coding	chr1	6087467	6087511	+	1
## 7558	protein_coding	chr1	6089008	6089051	+	1
## 7559	protein_coding	chr1	6089008	6089051	+	1
## 7560	protein_coding	chr1	6090389	6090475	+	1
## 7561	protein_coding	chr1	6090389	6090475	+	1
## 7562	protein_coding	chr1	6094400	6094485	+	1
## 7563	protein_coding	chr1	6094400	6094485	+	1
## 7564	protein_coding	chr1	6095323	6095443	+	1
## 7565	protein_coding	chr1	6095323	6095443	+	1
## 7566	protein_coding	chr1	6095530	6095624	+	1
## 7567	protein_coding	chr1	6095530	6095624	+	1
## 7568	protein_coding	chr1	6096636	6096756	+	1
## 7569	protein_coding	chr1	6096636	6096756	+	1
## 7570	protein_coding	chr1	6097269	6097357	+	1
## 7571	protein_coding	chr1	6097269	6097357	+	1
## 7572	protein_coding	chr1	6098485	6100023	+	1
## 7573	protein_coding	chr1	6098485	6098571	+	1
## 7574	protein_coding	chr1	6098572	6098574	+	1
## 7575	protein_coding	chr1	6065753	6066064	+	1
## 7576	protein_coding	chr1	6098572	6100023	+	1
## 7577	protein_coding	chr1	6101787	6180321	-	1
## 7578	protein_coding	chr1	6101787	6180321	-	1
## 7579	protein_coding	chr1	6179945	6180321	-	1
## 7580	protein_coding	chr1	6179945	6180023	-	1
## 7581	protein_coding	chr1	6180021	6180023	-	1
## 7582	protein_coding	chr1	6168150	6168277	-	1
## 7583	protein_coding	chr1	6168150	6168277	-	1
## 7584	protein_coding	chr1	6159336	6159515	-	1
## 7585	protein_coding	chr1	6159336	6159515	-	1
## 7586	protein_coding	chr1	6155599	6155717	-	1
## 7587	protein_coding	chr1	6155599	6155717	-	1
## 7588	protein_coding	chr1	6154660	6154898	-	1
## 7589	protein_coding	chr1	6154660	6154898	-	1
## 7590	protein_coding	chr1	6152412	6152536	-	1
## 7591	protein_coding	chr1	6152412	6152536	-	1
## 7592	protein_coding	chr1	6151032	6151155	-	1
## 7593	protein_coding	chr1	6151032	6151155	-	1
## 7594	protein_coding	chr1	6149246	6149412	-	1
## 7595	protein_coding	chr1	6149246	6149412	-	1
## 7596	protein_coding	chr1	6148854	6149075	-	1
## 7597	protein_coding	chr1	6148854	6149075	-	1
## 7598	protein_coding	chr1	6146665	6146871	-	1
## 7599	protein_coding	chr1	6146665	6146871	-	1
## 7600	protein_coding	chr1	6146212	6146423	-	1
## 7601	protein_coding	chr1	6146212	6146423	-	1
## 7602	protein_coding	chr1	6144024	6144155	-	1
## 7603	protein_coding	chr1	6144024	6144155	-	1

## 7604	protein_coding	chr1	6143823	6143931	-	1
## 7605	protein_coding	chr1	6143823	6143931	-	1
## 7606	protein_coding	chr1	6142414	6142605	-	1
## 7607	protein_coding	chr1	6142414	6142605	-	1
## 7608	protein_coding	chr1	6142128	6142328	-	1
## 7609	protein_coding	chr1	6142128	6142328	-	1
## 7610	protein_coding	chr1	6136728	6136865	-	1
## 7611	protein_coding	chr1	6136728	6136865	-	1
## 7612	protein_coding	chr1	6136517	6136638	-	1
## 7613	protein_coding	chr1	6136517	6136638	-	1
## 7614	protein_coding	chr1	6135230	6135403	-	1
## 7615	protein_coding	chr1	6135230	6135403	-	1
## 7616	protein_coding	chr1	6134718	6134859	-	1
## 7617	protein_coding	chr1	6134718	6134859	-	1
## 7618	protein_coding	chr1	6134128	6134259	-	1
## 7619	protein_coding	chr1	6134128	6134259	-	1
## 7620	protein_coding	chr1	6131631	6131748	-	1
## 7621	protein_coding	chr1	6131631	6131748	-	1
## 7622	protein_coding	chr1	6130204	6130328	-	1
## 7623	protein_coding	chr1	6130204	6130328	-	1
## 7624	protein_coding	chr1	6128838	6129069	-	1
## 7625	protein_coding	chr1	6128838	6129069	-	1
## 7626	protein_coding	chr1	6128499	6128609	-	1
## 7627	protein_coding	chr1	6128499	6128609	-	1
## 7628	protein_coding	chr1	6128046	6128218	-	1
## 7629	protein_coding	chr1	6128046	6128218	-	1
## 7630	protein_coding	chr1	6126572	6126746	-	1
## 7631	protein_coding	chr1	6126572	6126746	-	1
## 7632	protein_coding	chr1	6125766	6125858	-	1
## 7633	protein_coding	chr1	6125766	6125858	-	1
## 7634	protein_coding	chr1	6125524	6125612	-	1
## 7635	protein_coding	chr1	6125524	6125612	-	1
## 7636	protein_coding	chr1	6125100	6125233	-	1
## 7637	protein_coding	chr1	6125100	6125233	-	1
## 7638	protein_coding	chr1	6124517	6124661	-	1
## 7639	protein_coding	chr1	6124517	6124661	-	1
## 7640	protein_coding	chr1	6123948	6124107	-	1
## 7641	protein_coding	chr1	6123948	6124107	-	1
## 7642	protein_coding	chr1	6121494	6121573	-	1
## 7643	protein_coding	chr1	6121494	6121573	-	1
## 7644	protein_coding	chr1	6121105	6121237	-	1
## 7645	protein_coding	chr1	6121105	6121237	-	1
## 7646	protein_coding	chr1	6112909	6112998	-	1
## 7647	protein_coding	chr1	6112909	6112998	-	1
## 7648	protein_coding	chr1	6112140	6112277	-	1
## 7649	protein_coding	chr1	6112140	6112277	-	1
## 7650	protein_coding	chr1	6111775	6111883	-	1
## 7651	protein_coding	chr1	6111775	6111883	-	1
## 7652	protein_coding	chr1	6110394	6110526	-	1
## 7653	protein_coding	chr1	6110394	6110526	-	1
## 7654	protein_coding	chr1	6109795	6109990	-	1
## 7655	protein_coding	chr1	6109795	6109990	-	1
## 7656	protein_coding	chr1	6106616	6106779	-	1
## 7657	protein_coding	chr1	6106616	6106779	-	1

## 7658	protein_coding	chr1	6106395	6106509	-	1
## 7659	protein_coding	chr1	6106395	6106509	-	1
## 7660	protein_coding	chr1	6106234	6106287	-	1
## 7661	protein_coding	chr1	6106283	6106287	-	1
## 7662	protein_coding	chr1	6106280	6106282	-	1
## 7663	protein_coding	chr1	6101787	6105427	-	1
## 7664	protein_coding	chr1	6180024	6180321	-	1
## 7665	protein_coding	chr1	6106234	6106282	-	1
## 7666	protein_coding	chr1	6101787	6105427	-	1
## 7667	protein_coding	chr1	6159430	6197757	-	0
## 7668	protein_coding	chr1	6159430	6197757	-	0
## 7669	protein_coding	chr1	6197652	6197757	-	0
## 7670	protein_coding	chr1	6197652	6197669	-	0
## 7671	protein_coding	chr1	6197667	6197669	-	0
## 7672	protein_coding	chr1	6192930	6193054	-	0
## 7673	protein_coding	chr1	6192930	6193054	-	0
## 7674	protein_coding	chr1	6181269	6181486	-	0
## 7675	protein_coding	chr1	6181471	6181486	-	0
## 7676	protein_coding	chr1	6181468	6181470	-	0
## 7677	protein_coding	chr1	6168150	6168277	-	0
## 7678	protein_coding	chr1	6159430	6159515	-	0
## 7679	protein_coding	chr1	6197670	6197757	-	0
## 7680	protein_coding	chr1	6181269	6181470	-	0
## 7681	protein_coding	chr1	6168150	6168277	-	0
## 7682	protein_coding	chr1	6159430	6159515	-	0
## 7683	protein_coding	chr1	6185020	6209389	-	1
## 7684	protein_coding	chr1	6185020	6199595	-	1
## 7685	protein_coding	chr1	6199562	6199595	-	1
## 7686	protein_coding	chr1	6199562	6199573	-	1
## 7687	protein_coding	chr1	6199571	6199573	-	1
## 7688	protein_coding	chr1	6197652	6197756	-	1
## 7689	protein_coding	chr1	6197652	6197756	-	1
## 7690	protein_coding	chr1	6192930	6193054	-	1
## 7691	protein_coding	chr1	6192930	6193054	-	1
## 7692	protein_coding	chr1	6185020	6186816	-	1
## 7693	protein_coding	chr1	6186675	6186816	-	1
## 7694	protein_coding	chr1	6186672	6186674	-	1
## 7695	protein_coding	chr1	6199574	6199595	-	1
## 7696	protein_coding	chr1	6185020	6186674	-	1
## 7697	protein_coding	chr1	6186615	6200842	-	1
## 7698	protein_coding	chr1	6200489	6200842	-	1
## 7699	protein_coding	chr1	6197652	6197756	-	1
## 7700	protein_coding	chr1	6197652	6197669	-	1
## 7701	protein_coding	chr1	6197667	6197669	-	1
## 7702	protein_coding	chr1	6192930	6193054	-	1
## 7703	protein_coding	chr1	6192930	6193054	-	1
## 7704	protein_coding	chr1	6186615	6186816	-	1
## 7705	protein_coding	chr1	6186675	6186816	-	1
## 7706	protein_coding	chr1	6186672	6186674	-	1
## 7707	protein_coding	chr1	6200489	6200842	-	1
## 7708	protein_coding	chr1	6197670	6197756	-	1
## 7709	protein_coding	chr1	6186615	6186674	-	1
## 7710	lncRNA	chr1	6204840	6205780	-	0
## 7711	lncRNA	chr1	6204840	6205780	-	0

## 7712	lncRNA	chr1	6205754	6205780	-	0
## 7713	lncRNA	chr1	6205206	6205413	-	0
## 7714	lncRNA	chr1	6204840	6204982	-	0
## 7715	protein_coding	chr1	6205475	6221299	+	1
## 7716	protein_coding	chr1	6206119	6221299	+	1
## 7717	protein_coding	chr1	6206119	6206302	+	1
## 7718	protein_coding	chr1	6206536	6206726	+	1
## 7719	protein_coding	chr1	6206536	6206726	+	1
## 7720	protein_coding	chr1	6206536	6206538	+	1
## 7721	protein_coding	chr1	6207379	6207511	+	1
## 7722	protein_coding	chr1	6207379	6207511	+	1
## 7723	protein_coding	chr1	6208881	6209025	+	1
## 7724	protein_coding	chr1	6208881	6209025	+	1
## 7725	protein_coding	chr1	6209115	6209196	+	1
## 7726	protein_coding	chr1	6209115	6209196	+	1
## 7727	protein_coding	chr1	6209268	6209343	+	1
## 7728	protein_coding	chr1	6209268	6209343	+	1
## 7729	protein_coding	chr1	6209414	6209539	+	1
## 7730	protein_coding	chr1	6209414	6209539	+	1
## 7731	protein_coding	chr1	6209924	6209970	+	1
## 7732	protein_coding	chr1	6209924	6209970	+	1
## 7733	protein_coding	chr1	6210223	6210295	+	1
## 7734	protein_coding	chr1	6210223	6210295	+	1
## 7735	protein_coding	chr1	6210370	6210438	+	1
## 7736	protein_coding	chr1	6210370	6210438	+	1
## 7737	protein_coding	chr1	6210870	6210938	+	1
## 7738	protein_coding	chr1	6210870	6210938	+	1
## 7739	protein_coding	chr1	6211021	6211118	+	1
## 7740	protein_coding	chr1	6211021	6211118	+	1
## 7741	protein_coding	chr1	6211867	6212053	+	1
## 7742	protein_coding	chr1	6211867	6212053	+	1
## 7743	protein_coding	chr1	6212231	6212416	+	1
## 7744	protein_coding	chr1	6212231	6212416	+	1
## 7745	protein_coding	chr1	6212682	6212733	+	1
## 7746	protein_coding	chr1	6212682	6212733	+	1
## 7747	protein_coding	chr1	6213066	6213183	+	1
## 7748	protein_coding	chr1	6213066	6213183	+	1
## 7749	protein_coding	chr1	6218289	6218369	+	1
## 7750	protein_coding	chr1	6218289	6218369	+	1
## 7751	protein_coding	chr1	6219236	6221299	+	1
## 7752	protein_coding	chr1	6219236	6219404	+	1
## 7753	protein_coding	chr1	6219405	6219407	+	1
## 7754	protein_coding	chr1	6206119	6206302	+	1
## 7755	protein_coding	chr1	6219405	6221299	+	1
## 7756	protein_coding	chr1	6221193	6235972	-	1
## 7757	protein_coding	chr1	6221193	6235964	-	1
## 7758	protein_coding	chr1	6235717	6235964	-	1
## 7759	protein_coding	chr1	6235717	6235911	-	1
## 7760	protein_coding	chr1	6235909	6235911	-	1
## 7761	protein_coding	chr1	6234886	6234974	-	1
## 7762	protein_coding	chr1	6234886	6234974	-	1
## 7763	protein_coding	chr1	6233474	6233643	-	1
## 7764	protein_coding	chr1	6233474	6233643	-	1
## 7765	protein_coding	chr1	6231902	6232119	-	1

## 7766	protein_coding	chr1	6231902	6232119	-	1
## 7767	protein_coding	chr1	6221193	6225262	-	1
## 7768	protein_coding	chr1	6225083	6225262	-	1
## 7769	protein_coding	chr1	6225080	6225082	-	1
## 7770	protein_coding	chr1	6235912	6235964	-	1
## 7771	protein_coding	chr1	6221193	6225082	-	1
## 7772	lncRNA	chr1	6234692	6239444	+	1
## 7773	lncRNA	chr1	6234692	6239408	+	1
## 7774	lncRNA	chr1	6234692	6235063	+	1
## 7775	lncRNA	chr1	6237245	6237345	+	1
## 7776	lncRNA	chr1	6237470	6237848	+	1
## 7777	lncRNA	chr1	6238221	6239408	+	1
## 7778	lncRNA	chr1	6236240	6238940	+	1
## 7779	lncRNA	chr1	6236240	6236336	+	1
## 7780	lncRNA	chr1	6236966	6237150	+	1
## 7781	lncRNA	chr1	6237245	6237345	+	1
## 7782	lncRNA	chr1	6237814	6237848	+	1
## 7783	lncRNA	chr1	6238221	6238940	+	1
## 7784	protein_coding	chr1	6244192	6245578	+	1
## 7785	protein_coding	chr1	6244192	6245578	+	1
## 7786	protein_coding	chr1	6244192	6244241	+	1
## 7787	protein_coding	chr1	6244351	6244446	+	1
## 7788	protein_coding	chr1	6244366	6244446	+	1
## 7789	protein_coding	chr1	6244366	6244368	+	1
## 7790	protein_coding	chr1	6244548	6244629	+	1
## 7791	protein_coding	chr1	6244548	6244629	+	1
## 7792	protein_coding	chr1	6245110	6245578	+	1
## 7793	protein_coding	chr1	6245110	6245504	+	1
## 7794	protein_coding	chr1	6245505	6245507	+	1
## 7795	protein_coding	chr1	6244192	6244241	+	1
## 7796	protein_coding	chr1	6244351	6244365	+	1
## 7797	protein_coding	chr1	6245505	6245578	+	1
## 7798	protein_coding	chr1	6247353	6261098	-	1
## 7799	protein_coding	chr1	6247353	6261098	-	1
## 7800	protein_coding	chr1	6260825	6261098	-	1
## 7801	protein_coding	chr1	6254550	6255014	-	1
## 7802	protein_coding	chr1	6254550	6254905	-	1
## 7803	protein_coding	chr1	6254903	6254905	-	1
## 7804	protein_coding	chr1	6253718	6254147	-	1
## 7805	protein_coding	chr1	6253718	6254147	-	1
## 7806	protein_coding	chr1	6251338	6251530	-	1
## 7807	protein_coding	chr1	6251338	6251530	-	1
## 7808	protein_coding	chr1	6250440	6250624	-	1
## 7809	protein_coding	chr1	6250440	6250624	-	1
## 7810	protein_coding	chr1	6247353	6250003	-	1
## 7811	protein_coding	chr1	6249341	6250003	-	1
## 7812	protein_coding	chr1	6249338	6249340	-	1
## 7813	protein_coding	chr1	6260825	6261098	-	1
## 7814	protein_coding	chr1	6254906	6255014	-	1
## 7815	protein_coding	chr1	6247353	6249340	-	1
## 7816	protein_coding	chr1	6264269	6394391	-	1
## 7817	protein_coding	chr1	6264269	6393361	-	1
## 7818	protein_coding	chr1	6393257	6393361	-	1
## 7819	protein_coding	chr1	6393257	6393303	-	1

## 7820	protein_coding	chr1	6393301	6393303	-	1
## 7821	protein_coding	chr1	6349749	6349866	-	1
## 7822	protein_coding	chr1	6349749	6349866	-	1
## 7823	protein_coding	chr1	6339433	6339589	-	1
## 7824	protein_coding	chr1	6339433	6339589	-	1
## 7825	protein_coding	chr1	6333477	6333568	-	1
## 7826	protein_coding	chr1	6333477	6333568	-	1
## 7827	protein_coding	chr1	6327299	6327413	-	1
## 7828	protein_coding	chr1	6327299	6327413	-	1
## 7829	protein_coding	chr1	6318492	6318578	-	1
## 7830	protein_coding	chr1	6318492	6318578	-	1
## 7831	protein_coding	chr1	6294864	6294980	-	1
## 7832	protein_coding	chr1	6294864	6294980	-	1
## 7833	protein_coding	chr1	6281102	6281286	-	1
## 7834	protein_coding	chr1	6281102	6281286	-	1
## 7835	protein_coding	chr1	6264269	6264695	-	1
## 7836	protein_coding	chr1	6264600	6264695	-	1
## 7837	protein_coding	chr1	6264597	6264599	-	1
## 7838	protein_coding	chr1	6393304	6393361	-	1
## 7839	protein_coding	chr1	6264269	6264599	-	1
## 7840	protein_coding	chr1	6264273	6359344	-	1
## 7841	protein_coding	chr1	6358826	6359344	-	1
## 7842	protein_coding	chr1	6358826	6358845	-	1
## 7843	protein_coding	chr1	6358843	6358845	-	1
## 7844	protein_coding	chr1	6349749	6349866	-	1
## 7845	protein_coding	chr1	6349749	6349866	-	1
## 7846	protein_coding	chr1	6339433	6339589	-	1
## 7847	protein_coding	chr1	6339433	6339589	-	1
## 7848	protein_coding	chr1	6333477	6333568	-	1
## 7849	protein_coding	chr1	6333477	6333568	-	1
## 7850	protein_coding	chr1	6327299	6327413	-	1
## 7851	protein_coding	chr1	6327299	6327413	-	1
## 7852	protein_coding	chr1	6318492	6318578	-	1
## 7853	protein_coding	chr1	6318492	6318578	-	1
## 7854	protein_coding	chr1	6294864	6294980	-	1
## 7855	protein_coding	chr1	6294864	6294980	-	1
## 7856	protein_coding	chr1	6281102	6281286	-	1
## 7857	protein_coding	chr1	6281102	6281286	-	1
## 7858	protein_coding	chr1	6264273	6264695	-	1
## 7859	protein_coding	chr1	6264600	6264695	-	1
## 7860	protein_coding	chr1	6264597	6264599	-	1
## 7861	protein_coding	chr1	6358846	6359344	-	1
## 7862	protein_coding	chr1	6264273	6264599	-	1
## 7863	protein_coding	chr1	6264273	6360707	-	1
## 7864	protein_coding	chr1	6360570	6360707	-	1
## 7865	protein_coding	chr1	6360570	6360652	-	1
## 7866	protein_coding	chr1	6360650	6360652	-	1
## 7867	protein_coding	chr1	6349749	6349866	-	1
## 7868	protein_coding	chr1	6349749	6349866	-	1
## 7869	protein_coding	chr1	6339433	6339589	-	1
## 7870	protein_coding	chr1	6339433	6339589	-	1
## 7871	protein_coding	chr1	6333477	6333568	-	1
## 7872	protein_coding	chr1	6333477	6333568	-	1
## 7873	protein_coding	chr1	6327299	6327413	-	1

## 7874	protein_coding	chr1	6327299	6327413	-	1
## 7875	protein_coding	chr1	6318492	6318578	-	1
## 7876	protein_coding	chr1	6318492	6318578	-	1
## 7877	protein_coding	chr1	6294864	6294980	-	1
## 7878	protein_coding	chr1	6294864	6294980	-	1
## 7879	protein_coding	chr1	6281102	6281286	-	1
## 7880	protein_coding	chr1	6281102	6281286	-	1
## 7881	protein_coding	chr1	6264273	6264695	-	1
## 7882	protein_coding	chr1	6264600	6264695	-	1
## 7883	protein_coding	chr1	6264597	6264599	-	1
## 7884	protein_coding	chr1	6360653	6360707	-	1
## 7885	protein_coding	chr1	6264273	6264599	-	1
## 7886	protein_coding	chr1	6264273	6385813	-	1
## 7887	protein_coding	chr1	6385494	6385813	-	1
## 7888	protein_coding	chr1	6385494	6385666	-	1
## 7889	protein_coding	chr1	6385664	6385666	-	1
## 7890	protein_coding	chr1	6349749	6349866	-	1
## 7891	protein_coding	chr1	6349749	6349866	-	1
## 7892	protein_coding	chr1	6339433	6339589	-	1
## 7893	protein_coding	chr1	6339433	6339589	-	1
## 7894	protein_coding	chr1	6333477	6333568	-	1
## 7895	protein_coding	chr1	6333477	6333568	-	1
## 7896	protein_coding	chr1	6327299	6327413	-	1
## 7897	protein_coding	chr1	6327299	6327413	-	1
## 7898	protein_coding	chr1	6318492	6318578	-	1
## 7899	protein_coding	chr1	6318492	6318578	-	1
## 7900	protein_coding	chr1	6294864	6294980	-	1
## 7901	protein_coding	chr1	6294864	6294980	-	1
## 7902	protein_coding	chr1	6281102	6281286	-	1
## 7903	protein_coding	chr1	6281102	6281286	-	1
## 7904	protein_coding	chr1	6264273	6264695	-	1
## 7905	protein_coding	chr1	6264600	6264695	-	1
## 7906	protein_coding	chr1	6264597	6264599	-	1
## 7907	protein_coding	chr1	6385667	6385813	-	1
## 7908	protein_coding	chr1	6264273	6264599	-	1
## 7909	protein_coding	chr1	6264273	6393766	-	1
## 7910	protein_coding	chr1	6393257	6393766	-	1
## 7911	protein_coding	chr1	6393257	6393399	-	1
## 7912	protein_coding	chr1	6393397	6393399	-	1
## 7913	protein_coding	chr1	6349749	6349866	-	1
## 7914	protein_coding	chr1	6349749	6349866	-	1
## 7915	protein_coding	chr1	6339433	6339589	-	1
## 7916	protein_coding	chr1	6339433	6339589	-	1
## 7917	protein_coding	chr1	6333477	6333568	-	1
## 7918	protein_coding	chr1	6333477	6333568	-	1
## 7919	protein_coding	chr1	6327299	6327413	-	1
## 7920	protein_coding	chr1	6327299	6327413	-	1
## 7921	protein_coding	chr1	6318492	6318578	-	1
## 7922	protein_coding	chr1	6318492	6318578	-	1
## 7923	protein_coding	chr1	6294864	6294980	-	1
## 7924	protein_coding	chr1	6294864	6294980	-	1
## 7925	protein_coding	chr1	6281102	6281286	-	1
## 7926	protein_coding	chr1	6281102	6281286	-	1
## 7927	protein_coding	chr1	6264273	6264695	-	1

## 7928	protein_coding	chr1	6264600	6264695	-	1
## 7929	protein_coding	chr1	6264597	6264599	-	1
## 7930	protein_coding	chr1	6393400	6393766	-	1
## 7931	protein_coding	chr1	6264273	6264599	-	1
## 7932	protein_coding	chr1	6264273	6394391	-	1
## 7933	protein_coding	chr1	6393257	6394391	-	1
## 7934	protein_coding	chr1	6393257	6393399	-	1
## 7935	protein_coding	chr1	6393397	6393399	-	1
## 7936	protein_coding	chr1	6349749	6349866	-	1
## 7937	protein_coding	chr1	6349749	6349866	-	1
## 7938	protein_coding	chr1	6339433	6339589	-	1
## 7939	protein_coding	chr1	6339433	6339589	-	1
## 7940	protein_coding	chr1	6333477	6333568	-	1
## 7941	protein_coding	chr1	6333477	6333568	-	1
## 7942	protein_coding	chr1	6327299	6327413	-	1
## 7943	protein_coding	chr1	6327299	6327413	-	1
## 7944	protein_coding	chr1	6318492	6318578	-	1
## 7945	protein_coding	chr1	6318492	6318578	-	1
## 7946	protein_coding	chr1	6294864	6294980	-	1
## 7947	protein_coding	chr1	6294864	6294980	-	1
## 7948	protein_coding	chr1	6281102	6281286	-	1
## 7949	protein_coding	chr1	6281102	6281286	-	1
## 7950	protein_coding	chr1	6264273	6264695	-	1
## 7951	protein_coding	chr1	6264600	6264695	-	1
## 7952	protein_coding	chr1	6264597	6264599	-	1
## 7953	protein_coding	chr1	6393400	6394391	-	1
## 7954	protein_coding	chr1	6264273	6264599	-	1
## 7955	lncRNA	chr1	6393555	6394391	+	0
## 7956	lncRNA	chr1	6393555	6394391	+	0
## 7957	lncRNA	chr1	6393555	6394391	+	0
## 7958	protein_coding	chr1	6412418	6424670	-	1
## 7959	protein_coding	chr1	6412418	6424670	-	1
## 7960	protein_coding	chr1	6424478	6424670	-	1
## 7961	protein_coding	chr1	6419776	6419843	-	1
## 7962	protein_coding	chr1	6419776	6419820	-	1
## 7963	protein_coding	chr1	6419818	6419820	-	1
## 7964	protein_coding	chr1	6419607	6419702	-	1
## 7965	protein_coding	chr1	6419607	6419702	-	1
## 7966	protein_coding	chr1	6412418	6413282	-	1
## 7967	protein_coding	chr1	6413196	6413282	-	1
## 7968	protein_coding	chr1	6413193	6413195	-	1
## 7969	protein_coding	chr1	6424478	6424670	-	1
## 7970	protein_coding	chr1	6419821	6419843	-	1
## 7971	protein_coding	chr1	6412418	6413195	-	1
## 7972	protein_coding	chr1	6413000	6419903	-	1
## 7973	protein_coding	chr1	6419776	6419903	-	1
## 7974	protein_coding	chr1	6419776	6419820	-	1
## 7975	protein_coding	chr1	6419818	6419820	-	1
## 7976	protein_coding	chr1	6419607	6419702	-	1
## 7977	protein_coding	chr1	6419607	6419702	-	1
## 7978	protein_coding	chr1	6413000	6413282	-	1
## 7979	protein_coding	chr1	6413196	6413282	-	1
## 7980	protein_coding	chr1	6413193	6413195	-	1
## 7981	protein_coding	chr1	6419821	6419903	-	1

## 7982	protein_coding	chr1	6413000	6413195	-	1
## 7983	protein_coding	chr1	6415232	6419919	-	1
## 7984	protein_coding	chr1	6419776	6419919	-	1
## 7985	protein_coding	chr1	6419776	6419820	-	1
## 7986	protein_coding	chr1	6419818	6419820	-	1
## 7987	protein_coding	chr1	6419607	6419702	-	1
## 7988	protein_coding	chr1	6419607	6419702	-	1
## 7989	protein_coding	chr1	6419241	6419340	-	1
## 7990	protein_coding	chr1	6419241	6419340	-	1
## 7991	protein_coding	chr1	6415232	6419153	-	1
## 7992	protein_coding	chr1	6418876	6419153	-	1
## 7993	protein_coding	chr1	6418873	6418875	-	1
## 7994	protein_coding	chr1	6419821	6419919	-	1
## 7995	protein_coding	chr1	6415232	6418875	-	1
## 7996	protein_coding	chr1	6418414	6419907	-	1
## 7997	protein_coding	chr1	6419776	6419907	-	1
## 7998	protein_coding	chr1	6419776	6419820	-	1
## 7999	protein_coding	chr1	6419818	6419820	-	1
## 8000	protein_coding	chr1	6419607	6419702	-	1
## 8001	protein_coding	chr1	6419607	6419702	-	1
## 8002	protein_coding	chr1	6418414	6419153	-	1
## 8003	protein_coding	chr1	6419064	6419153	-	1
## 8004	protein_coding	chr1	6419061	6419063	-	1
## 8005	protein_coding	chr1	6419821	6419907	-	1
## 8006	protein_coding	chr1	6418414	6419063	-	1
## 8007	protein_coding	chr1	6418849	6419917	-	1
## 8008	protein_coding	chr1	6419776	6419917	-	1
## 8009	protein_coding	chr1	6419776	6419820	-	1
## 8010	protein_coding	chr1	6419818	6419820	-	1
## 8011	protein_coding	chr1	6419607	6419702	-	1
## 8012	protein_coding	chr1	6419607	6419702	-	1
## 8013	protein_coding	chr1	6418849	6419340	-	1
## 8014	protein_coding	chr1	6419236	6419340	-	1
## 8015	protein_coding	chr1	6419233	6419235	-	1
## 8016	protein_coding	chr1	6419821	6419917	-	1
## 8017	protein_coding	chr1	6418849	6419235	-	1
## 8018	protein_coding	chr1	6424776	6461367	+	1
## 8019	protein_coding	chr1	6424776	6460944	+	1
## 8020	protein_coding	chr1	6424776	6425249	+	1
## 8021	protein_coding	chr1	6424956	6425249	+	1
## 8022	protein_coding	chr1	6424956	6424958	+	1
## 8023	protein_coding	chr1	6428226	6428419	+	1
## 8024	protein_coding	chr1	6428226	6428419	+	1
## 8025	protein_coding	chr1	6440254	6440440	+	1
## 8026	protein_coding	chr1	6440254	6440440	+	1
## 8027	protein_coding	chr1	6440626	6440808	+	1
## 8028	protein_coding	chr1	6440626	6440808	+	1
## 8029	protein_coding	chr1	6440934	6441065	+	1
## 8030	protein_coding	chr1	6440934	6441065	+	1
## 8031	protein_coding	chr1	6444481	6444682	+	1
## 8032	protein_coding	chr1	6444481	6444682	+	1
## 8033	protein_coding	chr1	6445664	6445935	+	1
## 8034	protein_coding	chr1	6445664	6445935	+	1
## 8035	protein_coding	chr1	6448641	6449091	+	1

## 8036	protein_coding	chr1	6448641	6449091	+	1
## 8037	protein_coding	chr1	6451603	6451748	+	1
## 8038	protein_coding	chr1	6451603	6451748	+	1
## 8039	protein_coding	chr1	6451833	6452096	+	1
## 8040	protein_coding	chr1	6451833	6452096	+	1
## 8041	protein_coding	chr1	6457184	6457263	+	1
## 8042	protein_coding	chr1	6457184	6457263	+	1
## 8043	protein_coding	chr1	6457361	6457372	+	1
## 8044	protein_coding	chr1	6457361	6457372	+	1
## 8045	protein_coding	chr1	6459999	6460944	+	1
## 8046	protein_coding	chr1	6459999	6460143	+	1
## 8047	protein_coding	chr1	6460144	6460146	+	1
## 8048	protein_coding	chr1	6424776	6424955	+	1
## 8049	protein_coding	chr1	6460144	6460944	+	1
## 8050	protein_coding	chr1	6424788	6456671	+	1
## 8051	protein_coding	chr1	6424788	6425249	+	1
## 8052	protein_coding	chr1	6424956	6425249	+	1
## 8053	protein_coding	chr1	6424956	6424958	+	1
## 8054	protein_coding	chr1	6428226	6428419	+	1
## 8055	protein_coding	chr1	6428226	6428419	+	1
## 8056	protein_coding	chr1	6440254	6440440	+	1
## 8057	protein_coding	chr1	6440254	6440440	+	1
## 8058	protein_coding	chr1	6440626	6440808	+	1
## 8059	protein_coding	chr1	6440626	6440808	+	1
## 8060	protein_coding	chr1	6440934	6441065	+	1
## 8061	protein_coding	chr1	6440934	6441065	+	1
## 8062	protein_coding	chr1	6444481	6444682	+	1
## 8063	protein_coding	chr1	6444481	6444682	+	1
## 8064	protein_coding	chr1	6445664	6445935	+	1
## 8065	protein_coding	chr1	6445664	6445935	+	1
## 8066	protein_coding	chr1	6448641	6449091	+	1
## 8067	protein_coding	chr1	6448641	6449091	+	1
## 8068	protein_coding	chr1	6451603	6451748	+	1
## 8069	protein_coding	chr1	6451603	6451748	+	1
## 8070	protein_coding	chr1	6451833	6452096	+	1
## 8071	protein_coding	chr1	6451833	6452096	+	1
## 8072	protein_coding	chr1	6454434	6456671	+	1
## 8073	protein_coding	chr1	6454434	6456194	+	1
## 8074	protein_coding	chr1	6456195	6456197	+	1
## 8075	protein_coding	chr1	6424788	6424955	+	1
## 8076	protein_coding	chr1	6456195	6456671	+	1
## 8077	protein_coding	chr1	6448043	6460398	+	1
## 8078	protein_coding	chr1	6448043	6448117	+	1
## 8079	protein_coding	chr1	6448641	6448802	+	1
## 8080	protein_coding	chr1	6448785	6448802	+	1
## 8081	protein_coding	chr1	6448785	6448787	+	1
## 8082	protein_coding	chr1	6448893	6449091	+	1
## 8083	protein_coding	chr1	6448893	6449091	+	1
## 8084	protein_coding	chr1	6451603	6451748	+	1
## 8085	protein_coding	chr1	6451603	6451748	+	1
## 8086	protein_coding	chr1	6451833	6452096	+	1
## 8087	protein_coding	chr1	6451833	6452096	+	1
## 8088	protein_coding	chr1	6457184	6457264	+	1
## 8089	protein_coding	chr1	6457184	6457264	+	1

## 8090	protein_coding	chr1	6457266	6457274	+	1
## 8091	protein_coding	chr1	6457266	6457274	+	1
## 8092	protein_coding	chr1	6459997	6460398	+	1
## 8093	protein_coding	chr1	6459997	6460143	+	1
## 8094	protein_coding	chr1	6460144	6460146	+	1
## 8095	protein_coding	chr1	6448043	6448117	+	1
## 8096	protein_coding	chr1	6448641	6448784	+	1
## 8097	protein_coding	chr1	6460144	6460398	+	1
## 8098	protein_coding	chr1	6448043	6460399	+	1
## 8099	protein_coding	chr1	6448043	6448117	+	1
## 8100	protein_coding	chr1	6448641	6448802	+	1
## 8101	protein_coding	chr1	6448785	6448802	+	1
## 8102	protein_coding	chr1	6448785	6448787	+	1
## 8103	protein_coding	chr1	6448893	6449091	+	1
## 8104	protein_coding	chr1	6448893	6449091	+	1
## 8105	protein_coding	chr1	6451603	6451748	+	1
## 8106	protein_coding	chr1	6451603	6451748	+	1
## 8107	protein_coding	chr1	6451833	6452096	+	1
## 8108	protein_coding	chr1	6451833	6452096	+	1
## 8109	protein_coding	chr1	6457184	6457263	+	1
## 8110	protein_coding	chr1	6457184	6457263	+	1
## 8111	protein_coding	chr1	6457361	6457372	+	1
## 8112	protein_coding	chr1	6457361	6457372	+	1
## 8113	protein_coding	chr1	6459999	6460399	+	1
## 8114	protein_coding	chr1	6459999	6460143	+	1
## 8115	protein_coding	chr1	6460144	6460146	+	1
## 8116	protein_coding	chr1	6448043	6448117	+	1
## 8117	protein_coding	chr1	6448641	6448784	+	1
## 8118	protein_coding	chr1	6460144	6460399	+	1
## 8119	miRNA	chr1	6429834	6429896	-	1
## 8120	miRNA	chr1	6429834	6429896	-	1
## 8121	miRNA	chr1	6429834	6429896	-	1
## 8122	lncRNA	chr1	6443034	6447006	-	0
## 8123	lncRNA	chr1	6443034	6447006	-	0
## 8124	lncRNA	chr1	6446912	6447006	-	0
## 8125	lncRNA	chr1	6445562	6445681	-	0
## 8126	lncRNA	chr1	6443034	6443169	-	0
## 8127	protein_coding	chr1	6460786	6466195	-	1
## 8128	protein_coding	chr1	6461151	6466175	-	1
## 8129	protein_coding	chr1	6466069	6466175	-	1
## 8130	protein_coding	chr1	6466069	6466107	-	1
## 8131	protein_coding	chr1	6466105	6466107	-	1
## 8132	protein_coding	chr1	6465440	6465560	-	1
## 8133	protein_coding	chr1	6465440	6465560	-	1
## 8134	protein_coding	chr1	6465088	6465222	-	1
## 8135	protein_coding	chr1	6465088	6465222	-	1
## 8136	protein_coding	chr1	6464552	6464719	-	1
## 8137	protein_coding	chr1	6464552	6464719	-	1
## 8138	protein_coding	chr1	6464375	6464453	-	1
## 8139	protein_coding	chr1	6464375	6464453	-	1
## 8140	protein_coding	chr1	6463065	6463147	-	1
## 8141	protein_coding	chr1	6463065	6463147	-	1
## 8142	protein_coding	chr1	6462863	6462970	-	1
## 8143	protein_coding	chr1	6462863	6462970	-	1

## 8144	protein_coding	chr1	6462629	6462666	-	1
## 8145	protein_coding	chr1	6462629	6462666	-	1
## 8146	protein_coding	chr1	6461994	6462174	-	1
## 8147	protein_coding	chr1	6461994	6462174	-	1
## 8148	protein_coding	chr1	6461151	6461762	-	1
## 8149	protein_coding	chr1	6461437	6461762	-	1
## 8150	protein_coding	chr1	6461434	6461436	-	1
## 8151	protein_coding	chr1	6466108	6466175	-	1
## 8152	protein_coding	chr1	6461151	6461436	-	1
## 8153	protein_coding	chr1	6461151	6466195	-	1
## 8154	protein_coding	chr1	6466069	6466195	-	1
## 8155	protein_coding	chr1	6466069	6466107	-	1
## 8156	protein_coding	chr1	6466105	6466107	-	1
## 8157	protein_coding	chr1	6465440	6465560	-	1
## 8158	protein_coding	chr1	6465440	6465560	-	1
## 8159	protein_coding	chr1	6465088	6465222	-	1
## 8160	protein_coding	chr1	6465088	6465222	-	1
## 8161	protein_coding	chr1	6464552	6464719	-	1
## 8162	protein_coding	chr1	6464552	6464719	-	1
## 8163	protein_coding	chr1	6464375	6464453	-	1
## 8164	protein_coding	chr1	6464375	6464453	-	1
## 8165	protein_coding	chr1	6463072	6463127	-	1
## 8166	protein_coding	chr1	6463072	6463127	-	1
## 8167	protein_coding	chr1	6462863	6462970	-	1
## 8168	protein_coding	chr1	6462863	6462970	-	1
## 8169	protein_coding	chr1	6462629	6462666	-	1
## 8170	protein_coding	chr1	6462629	6462666	-	1
## 8171	protein_coding	chr1	6461994	6462174	-	1
## 8172	protein_coding	chr1	6461994	6462174	-	1
## 8173	protein_coding	chr1	6461151	6461762	-	1
## 8174	protein_coding	chr1	6461437	6461762	-	1
## 8175	protein_coding	chr1	6461434	6461436	-	1
## 8176	protein_coding	chr1	6466108	6466195	-	1
## 8177	protein_coding	chr1	6461151	6461436	-	1
## 8178	protein_coding	chr1	6461204	6466175	-	1
## 8179	protein_coding	chr1	6466069	6466175	-	1
## 8180	protein_coding	chr1	6466069	6466107	-	1
## 8181	protein_coding	chr1	6466105	6466107	-	1
## 8182	protein_coding	chr1	6465440	6465560	-	1
## 8183	protein_coding	chr1	6465440	6465560	-	1
## 8184	protein_coding	chr1	6465088	6465222	-	1
## 8185	protein_coding	chr1	6465088	6465222	-	1
## 8186	protein_coding	chr1	6464552	6464719	-	1
## 8187	protein_coding	chr1	6464552	6464719	-	1
## 8188	protein_coding	chr1	6464375	6464453	-	1
## 8189	protein_coding	chr1	6464375	6464453	-	1
## 8190	protein_coding	chr1	6463072	6463127	-	1
## 8191	protein_coding	chr1	6463072	6463127	-	1
## 8192	protein_coding	chr1	6462629	6462663	-	1
## 8193	protein_coding	chr1	6462629	6462663	-	1
## 8194	protein_coding	chr1	6461994	6462174	-	1
## 8195	protein_coding	chr1	6461994	6462174	-	1
## 8196	protein_coding	chr1	6461204	6461762	-	1
## 8197	protein_coding	chr1	6461437	6461762	-	1

## 8198	protein_coding	chr1	6461434	6461436	-	1
## 8199	protein_coding	chr1	6466108	6466175	-	1
## 8200	protein_coding	chr1	6461204	6461436	-	1
## 8201	protein_coding	chr1	6461434	6466107	-	1
## 8202	protein_coding	chr1	6466069	6466107	-	1
## 8203	protein_coding	chr1	6466069	6466107	-	1
## 8204	protein_coding	chr1	6466105	6466107	-	1
## 8205	protein_coding	chr1	6465440	6465560	-	1
## 8206	protein_coding	chr1	6465440	6465560	-	1
## 8207	protein_coding	chr1	6462629	6462663	-	1
## 8208	protein_coding	chr1	6462629	6462663	-	1
## 8209	protein_coding	chr1	6461994	6462174	-	1
## 8210	protein_coding	chr1	6461994	6462174	-	1
## 8211	protein_coding	chr1	6461434	6461762	-	1
## 8212	protein_coding	chr1	6461437	6461762	-	1
## 8213	protein_coding	chr1	6461434	6461436	-	1
## 8214	protein_coding	chr1	6461434	6461436	-	1
## 8215	protein_coding	chr1	6461434	6466107	-	1
## 8216	protein_coding	chr1	6466069	6466107	-	1
## 8217	protein_coding	chr1	6466069	6466107	-	1
## 8218	protein_coding	chr1	6466105	6466107	-	1
## 8219	protein_coding	chr1	6465440	6465560	-	1
## 8220	protein_coding	chr1	6465440	6465560	-	1
## 8221	protein_coding	chr1	6464552	6464719	-	1
## 8222	protein_coding	chr1	6464552	6464719	-	1
## 8223	protein_coding	chr1	6464375	6464453	-	1
## 8224	protein_coding	chr1	6464375	6464453	-	1
## 8225	protein_coding	chr1	6463072	6463127	-	1
## 8226	protein_coding	chr1	6463072	6463127	-	1
## 8227	protein_coding	chr1	6462863	6462970	-	1
## 8228	protein_coding	chr1	6462863	6462970	-	1
## 8229	protein_coding	chr1	6462629	6462666	-	1
## 8230	protein_coding	chr1	6462629	6462666	-	1
## 8231	protein_coding	chr1	6461994	6462174	-	1
## 8232	protein_coding	chr1	6461994	6462174	-	1
## 8233	protein_coding	chr1	6461434	6461762	-	1
## 8234	protein_coding	chr1	6461437	6461762	-	1
## 8235	protein_coding	chr1	6461434	6461436	-	1
## 8236	protein_coding	chr1	6461434	6461436	-	1
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## 8238	protein_coding	chr1	6466092	6485469	-	1
## 8239	protein_coding	chr1	6485324	6485469	-	1
## 8240	protein_coding	chr1	6485324	6485443	-	1
## 8241	protein_coding	chr1	6485441	6485443	-	1
## 8242	protein_coding	chr1	6477529	6477658	-	1
## 8243	protein_coding	chr1	6477529	6477658	-	1
## 8244	protein_coding	chr1	6475931	6476036	-	1
## 8245	protein_coding	chr1	6475931	6476036	-	1
## 8246	protein_coding	chr1	6475462	6475522	-	1
## 8247	protein_coding	chr1	6475462	6475522	-	1
## 8248	protein_coding	chr1	6475047	6475138	-	1
## 8249	protein_coding	chr1	6475047	6475138	-	1
## 8250	protein_coding	chr1	6474451	6474587	-	1
## 8251	protein_coding	chr1	6474451	6474587	-	1

## 8252	protein_coding	chr1	6474013	6474164	-	1
## 8253	protein_coding	chr1	6474013	6474164	-	1
## 8254	protein_coding	chr1	6473251	6473454	-	1
## 8255	protein_coding	chr1	6473251	6473454	-	1
## 8256	protein_coding	chr1	6472986	6473174	-	1
## 8257	protein_coding	chr1	6472986	6473174	-	1
## 8258	protein_coding	chr1	6472527	6472622	-	1
## 8259	protein_coding	chr1	6472527	6472622	-	1
## 8260	protein_coding	chr1	6471758	6471808	-	1
## 8261	protein_coding	chr1	6471758	6471808	-	1
## 8262	protein_coding	chr1	6471488	6471637	-	1
## 8263	protein_coding	chr1	6471488	6471637	-	1
## 8264	protein_coding	chr1	6470990	6471100	-	1
## 8265	protein_coding	chr1	6470990	6471100	-	1
## 8266	protein_coding	chr1	6470735	6470884	-	1
## 8267	protein_coding	chr1	6470735	6470884	-	1
## 8268	protein_coding	chr1	6470506	6470643	-	1
## 8269	protein_coding	chr1	6470506	6470643	-	1
## 8270	protein_coding	chr1	6470236	6470355	-	1
## 8271	protein_coding	chr1	6470236	6470355	-	1
## 8272	protein_coding	chr1	6469544	6469676	-	1
## 8273	protein_coding	chr1	6469544	6469676	-	1
## 8274	protein_coding	chr1	6469335	6469450	-	1
## 8275	protein_coding	chr1	6469335	6469450	-	1
## 8276	protein_coding	chr1	6469042	6469241	-	1
## 8277	protein_coding	chr1	6469042	6469241	-	1
## 8278	protein_coding	chr1	6467825	6468586	-	1
## 8279	protein_coding	chr1	6467825	6468586	-	1
## 8280	protein_coding	chr1	6466092	6467572	-	1
## 8281	protein_coding	chr1	6467566	6467572	-	1
## 8282	protein_coding	chr1	6467563	6467565	-	1
## 8283	protein_coding	chr1	6485444	6485469	-	1
## 8284	protein_coding	chr1	6466092	6467565	-	1
## 8285	protein_coding	chr1	6466092	6485954	-	1
## 8286	protein_coding	chr1	6485836	6485954	-	1
## 8287	protein_coding	chr1	6477529	6477658	-	1
## 8288	protein_coding	chr1	6477529	6477571	-	1
## 8289	protein_coding	chr1	6477569	6477571	-	1
## 8290	protein_coding	chr1	6475931	6476036	-	1
## 8291	protein_coding	chr1	6475931	6476036	-	1
## 8292	protein_coding	chr1	6475462	6475522	-	1
## 8293	protein_coding	chr1	6475462	6475522	-	1
## 8294	protein_coding	chr1	6475047	6475138	-	1
## 8295	protein_coding	chr1	6475047	6475138	-	1
## 8296	protein_coding	chr1	6474451	6474587	-	1
## 8297	protein_coding	chr1	6474451	6474587	-	1
## 8298	protein_coding	chr1	6474013	6474164	-	1
## 8299	protein_coding	chr1	6474013	6474164	-	1
## 8300	protein_coding	chr1	6473251	6473454	-	1
## 8301	protein_coding	chr1	6473251	6473454	-	1
## 8302	protein_coding	chr1	6472986	6473174	-	1
## 8303	protein_coding	chr1	6472986	6473174	-	1
## 8304	protein_coding	chr1	6472527	6472622	-	1
## 8305	protein_coding	chr1	6472527	6472622	-	1

## 8306	protein_coding	chr1	6471758	6471808	-	1
## 8307	protein_coding	chr1	6471758	6471808	-	1
## 8308	protein_coding	chr1	6471488	6471637	-	1
## 8309	protein_coding	chr1	6471488	6471637	-	1
## 8310	protein_coding	chr1	6470990	6471100	-	1
## 8311	protein_coding	chr1	6470990	6471100	-	1
## 8312	protein_coding	chr1	6470735	6470884	-	1
## 8313	protein_coding	chr1	6470735	6470884	-	1
## 8314	protein_coding	chr1	6470506	6470643	-	1
## 8315	protein_coding	chr1	6470506	6470643	-	1
## 8316	protein_coding	chr1	6470236	6470355	-	1
## 8317	protein_coding	chr1	6470236	6470355	-	1
## 8318	protein_coding	chr1	6469544	6469676	-	1
## 8319	protein_coding	chr1	6469544	6469676	-	1
## 8320	protein_coding	chr1	6469335	6469450	-	1
## 8321	protein_coding	chr1	6469335	6469450	-	1
## 8322	protein_coding	chr1	6469042	6469241	-	1
## 8323	protein_coding	chr1	6469042	6469241	-	1
## 8324	protein_coding	chr1	6467825	6468586	-	1
## 8325	protein_coding	chr1	6467825	6468586	-	1
## 8326	protein_coding	chr1	6466092	6467572	-	1
## 8327	protein_coding	chr1	6467566	6467572	-	1
## 8328	protein_coding	chr1	6467563	6467565	-	1
## 8329	protein_coding	chr1	6485836	6485954	-	1
## 8330	protein_coding	chr1	6477572	6477658	-	1
## 8331	protein_coding	chr1	6466092	6467565	-	1
## 8332	protein_coding	chr1	6466092	6490580	-	1
## 8333	protein_coding	chr1	6490445	6490580	-	1
## 8334	protein_coding	chr1	6477529	6477658	-	1
## 8335	protein_coding	chr1	6477529	6477571	-	1
## 8336	protein_coding	chr1	6477569	6477571	-	1
## 8337	protein_coding	chr1	6475931	6476036	-	1
## 8338	protein_coding	chr1	6475931	6476036	-	1
## 8339	protein_coding	chr1	6475462	6475522	-	1
## 8340	protein_coding	chr1	6475462	6475522	-	1
## 8341	protein_coding	chr1	6475047	6475138	-	1
## 8342	protein_coding	chr1	6475047	6475138	-	1
## 8343	protein_coding	chr1	6474451	6474587	-	1
## 8344	protein_coding	chr1	6474451	6474587	-	1
## 8345	protein_coding	chr1	6474013	6474164	-	1
## 8346	protein_coding	chr1	6474013	6474164	-	1
## 8347	protein_coding	chr1	6473251	6473454	-	1
## 8348	protein_coding	chr1	6473251	6473454	-	1
## 8349	protein_coding	chr1	6472986	6473174	-	1
## 8350	protein_coding	chr1	6472986	6473174	-	1
## 8351	protein_coding	chr1	6472527	6472622	-	1
## 8352	protein_coding	chr1	6472527	6472622	-	1
## 8353	protein_coding	chr1	6471758	6471808	-	1
## 8354	protein_coding	chr1	6471758	6471808	-	1
## 8355	protein_coding	chr1	6471488	6471637	-	1
## 8356	protein_coding	chr1	6471488	6471637	-	1
## 8357	protein_coding	chr1	6470990	6471100	-	1
## 8358	protein_coding	chr1	6470990	6471100	-	1
## 8359	protein_coding	chr1	6470735	6470884	-	1

## 8360	protein_coding	chr1	6470735	6470884	-	1
## 8361	protein_coding	chr1	6470506	6470643	-	1
## 8362	protein_coding	chr1	6470506	6470643	-	1
## 8363	protein_coding	chr1	6470236	6470355	-	1
## 8364	protein_coding	chr1	6470236	6470355	-	1
## 8365	protein_coding	chr1	6469544	6469676	-	1
## 8366	protein_coding	chr1	6469544	6469676	-	1
## 8367	protein_coding	chr1	6469335	6469450	-	1
## 8368	protein_coding	chr1	6469335	6469450	-	1
## 8369	protein_coding	chr1	6469042	6469241	-	1
## 8370	protein_coding	chr1	6469042	6469241	-	1
## 8371	protein_coding	chr1	6467825	6468586	-	1
## 8372	protein_coding	chr1	6467825	6468586	-	1
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## 8374	protein_coding	chr1	6467566	6467572	-	1
## 8375	protein_coding	chr1	6467563	6467565	-	1
## 8376	protein_coding	chr1	6490445	6490580	-	1
## 8377	protein_coding	chr1	6477572	6477658	-	1
## 8378	protein_coding	chr1	6466092	6467565	-	1
## 8379	protein_coding	chr1	6466092	6497096	-	1
## 8380	protein_coding	chr1	6496959	6497096	-	1
## 8381	protein_coding	chr1	6496959	6497031	-	1
## 8382	protein_coding	chr1	6497029	6497031	-	1
## 8383	protein_coding	chr1	6496493	6496569	-	1
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## 8385	protein_coding	chr1	6477529	6477658	-	1
## 8386	protein_coding	chr1	6477529	6477658	-	1
## 8387	protein_coding	chr1	6475931	6476036	-	1
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## 8390	protein_coding	chr1	6475462	6475522	-	1
## 8391	protein_coding	chr1	6475047	6475138	-	1
## 8392	protein_coding	chr1	6475047	6475138	-	1
## 8393	protein_coding	chr1	6474451	6474587	-	1
## 8394	protein_coding	chr1	6474451	6474587	-	1
## 8395	protein_coding	chr1	6474013	6474164	-	1
## 8396	protein_coding	chr1	6474013	6474164	-	1
## 8397	protein_coding	chr1	6473251	6473454	-	1
## 8398	protein_coding	chr1	6473251	6473454	-	1
## 8399	protein_coding	chr1	6472986	6473174	-	1
## 8400	protein_coding	chr1	6472986	6473174	-	1
## 8401	protein_coding	chr1	6472527	6472622	-	1
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## 8403	protein_coding	chr1	6471758	6471808	-	1
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## 8405	protein_coding	chr1	6471488	6471637	-	1
## 8406	protein_coding	chr1	6471488	6471637	-	1
## 8407	protein_coding	chr1	6470990	6471100	-	1
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## 8409	protein_coding	chr1	6470735	6470884	-	1
## 8410	protein_coding	chr1	6470735	6470884	-	1
## 8411	protein_coding	chr1	6470506	6470643	-	1
## 8412	protein_coding	chr1	6470506	6470643	-	1
## 8413	protein_coding	chr1	6470236	6470355	-	1

## 8414	protein_coding	chr1	6470236	6470355	-	1
## 8415	protein_coding	chr1	6469544	6469676	-	1
## 8416	protein_coding	chr1	6469544	6469676	-	1
## 8417	protein_coding	chr1	6469335	6469450	-	1
## 8418	protein_coding	chr1	6469335	6469450	-	1
## 8419	protein_coding	chr1	6469042	6469241	-	1
## 8420	protein_coding	chr1	6469042	6469241	-	1
## 8421	protein_coding	chr1	6467825	6468586	-	1
## 8422	protein_coding	chr1	6467825	6468586	-	1
## 8423	protein_coding	chr1	6466092	6467572	-	1
## 8424	protein_coding	chr1	6467566	6467572	-	1
## 8425	protein_coding	chr1	6467563	6467565	-	1
## 8426	protein_coding	chr1	6497032	6497096	-	1
## 8427	protein_coding	chr1	6466092	6467565	-	1
## 8428	protein_coding	chr1	6466092	6520009	-	1
## 8429	protein_coding	chr1	6519445	6520009	-	1
## 8430	protein_coding	chr1	6519445	6519511	-	1
## 8431	protein_coding	chr1	6519509	6519511	-	1
## 8432	protein_coding	chr1	6496493	6496569	-	1
## 8433	protein_coding	chr1	6496493	6496569	-	1
## 8434	protein_coding	chr1	6477529	6477658	-	1
## 8435	protein_coding	chr1	6477529	6477658	-	1
## 8436	protein_coding	chr1	6475931	6476036	-	1
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## 8438	protein_coding	chr1	6475462	6475522	-	1
## 8439	protein_coding	chr1	6475462	6475522	-	1
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## 8442	protein_coding	chr1	6474451	6474587	-	1
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## 8446	protein_coding	chr1	6473251	6473454	-	1
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## 8451	protein_coding	chr1	6472527	6472622	-	1
## 8452	protein_coding	chr1	6471758	6471808	-	1
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## 8454	protein_coding	chr1	6471488	6471637	-	1
## 8455	protein_coding	chr1	6471488	6471637	-	1
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## 8458	protein_coding	chr1	6470735	6470884	-	1
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## 8465	protein_coding	chr1	6469544	6469676	-	1
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## 8468	protein_coding	chr1	6469042	6469241	-	1
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## 8478	protein_coding	chr1	6490445	6490570	-	1
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## 8480	protein_coding	chr1	6477529	6477571	-	1
## 8481	protein_coding	chr1	6477569	6477571	-	1
## 8482	protein_coding	chr1	6475931	6476036	-	1
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## 8486	protein_coding	chr1	6475047	6475138	-	1
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## 8489	protein_coding	chr1	6474451	6474587	-	1
## 8490	protein_coding	chr1	6474013	6474164	-	1
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## 8492	protein_coding	chr1	6473251	6473454	-	1
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## 8498	protein_coding	chr1	6471758	6471808	-	1
## 8499	protein_coding	chr1	6471758	6471808	-	1
## 8500	protein_coding	chr1	6471488	6471637	-	1
## 8501	protein_coding	chr1	6471488	6471637	-	1
## 8502	protein_coding	chr1	6470990	6471100	-	1
## 8503	protein_coding	chr1	6470990	6471100	-	1
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## 8506	protein_coding	chr1	6470506	6470643	-	1
## 8507	protein_coding	chr1	6470506	6470643	-	1
## 8508	protein_coding	chr1	6470236	6470355	-	1
## 8509	protein_coding	chr1	6470236	6470355	-	1
## 8510	protein_coding	chr1	6469544	6469676	-	1
## 8511	protein_coding	chr1	6469544	6469676	-	1
## 8512	protein_coding	chr1	6469335	6469450	-	1
## 8513	protein_coding	chr1	6469335	6469450	-	1
## 8514	protein_coding	chr1	6469042	6469241	-	1
## 8515	protein_coding	chr1	6469042	6469241	-	1
## 8516	protein_coding	chr1	6468099	6468586	-	1
## 8517	protein_coding	chr1	6468099	6468586	-	1
## 8518	protein_coding	chr1	6467825	6467898	-	1
## 8519	protein_coding	chr1	6467846	6467898	-	1
## 8520	protein_coding	chr1	6467843	6467845	-	1
## 8521	protein_coding	chr1	6467122	6467572	-	1

## 8522	protein_coding	chr1	6490445	6490570	-	1
## 8523	protein_coding	chr1	6477572	6477658	-	1
## 8524	protein_coding	chr1	6467825	6467845	-	1
## 8525	protein_coding	chr1	6467122	6467572	-	1
## 8526	protein_coding	chr1	6467122	6491700	-	1
## 8527	protein_coding	chr1	6491637	6491700	-	1
## 8528	protein_coding	chr1	6477529	6477658	-	1
## 8529	protein_coding	chr1	6477529	6477571	-	1
## 8530	protein_coding	chr1	6477569	6477571	-	1
## 8531	protein_coding	chr1	6475931	6476036	-	1
## 8532	protein_coding	chr1	6475931	6476036	-	1
## 8533	protein_coding	chr1	6475462	6475522	-	1
## 8534	protein_coding	chr1	6475462	6475522	-	1
## 8535	protein_coding	chr1	6475047	6475138	-	1
## 8536	protein_coding	chr1	6475047	6475138	-	1
## 8537	protein_coding	chr1	6474451	6474587	-	1
## 8538	protein_coding	chr1	6474451	6474587	-	1
## 8539	protein_coding	chr1	6474013	6474164	-	1
## 8540	protein_coding	chr1	6474013	6474164	-	1
## 8541	protein_coding	chr1	6473251	6473454	-	1
## 8542	protein_coding	chr1	6473251	6473454	-	1
## 8543	protein_coding	chr1	6472986	6473174	-	1
## 8544	protein_coding	chr1	6472986	6473174	-	1
## 8545	protein_coding	chr1	6472527	6472622	-	1
## 8546	protein_coding	chr1	6472527	6472622	-	1
## 8547	protein_coding	chr1	6471758	6471808	-	1
## 8548	protein_coding	chr1	6471758	6471808	-	1
## 8549	protein_coding	chr1	6471488	6471637	-	1
## 8550	protein_coding	chr1	6471488	6471637	-	1
## 8551	protein_coding	chr1	6470990	6471100	-	1
## 8552	protein_coding	chr1	6470990	6471100	-	1
## 8553	protein_coding	chr1	6470735	6470884	-	1
## 8554	protein_coding	chr1	6470735	6470884	-	1
## 8555	protein_coding	chr1	6470506	6470643	-	1
## 8556	protein_coding	chr1	6470506	6470643	-	1
## 8557	protein_coding	chr1	6470236	6470355	-	1
## 8558	protein_coding	chr1	6470236	6470355	-	1
## 8559	protein_coding	chr1	6469544	6469676	-	1
## 8560	protein_coding	chr1	6469544	6469676	-	1
## 8561	protein_coding	chr1	6469335	6469450	-	1
## 8562	protein_coding	chr1	6469335	6469450	-	1
## 8563	protein_coding	chr1	6469042	6469241	-	1
## 8564	protein_coding	chr1	6469042	6469241	-	1
## 8565	protein_coding	chr1	6467825	6468586	-	1
## 8566	protein_coding	chr1	6467825	6468586	-	1
## 8567	protein_coding	chr1	6467122	6467572	-	1
## 8568	protein_coding	chr1	6467566	6467572	-	1
## 8569	protein_coding	chr1	6467563	6467565	-	1
## 8570	protein_coding	chr1	6491637	6491700	-	1
## 8571	protein_coding	chr1	6477572	6477658	-	1
## 8572	protein_coding	chr1	6467122	6467565	-	1
## 8573	protein_coding	chr1	6467122	6496696	-	1
## 8574	protein_coding	chr1	6496493	6496696	-	1
## 8575	protein_coding	chr1	6496493	6496516	-	1

## 8576	protein_coding	chr1	6496514	6496516	-	1
## 8577	protein_coding	chr1	6477529	6477658	-	1
## 8578	protein_coding	chr1	6477529	6477658	-	1
## 8579	protein_coding	chr1	6475931	6476036	-	1
## 8580	protein_coding	chr1	6475931	6476036	-	1
## 8581	protein_coding	chr1	6475462	6475522	-	1
## 8582	protein_coding	chr1	6475462	6475522	-	1
## 8583	protein_coding	chr1	6475047	6475138	-	1
## 8584	protein_coding	chr1	6475047	6475138	-	1
## 8585	protein_coding	chr1	6474451	6474587	-	1
## 8586	protein_coding	chr1	6474451	6474587	-	1
## 8587	protein_coding	chr1	6474013	6474164	-	1
## 8588	protein_coding	chr1	6474013	6474164	-	1
## 8589	protein_coding	chr1	6473251	6473454	-	1
## 8590	protein_coding	chr1	6473251	6473454	-	1
## 8591	protein_coding	chr1	6472986	6473174	-	1
## 8592	protein_coding	chr1	6472986	6473174	-	1
## 8593	protein_coding	chr1	6472527	6472622	-	1
## 8594	protein_coding	chr1	6472527	6472622	-	1
## 8595	protein_coding	chr1	6471758	6471808	-	1
## 8596	protein_coding	chr1	6471758	6471808	-	1
## 8597	protein_coding	chr1	6471488	6471637	-	1
## 8598	protein_coding	chr1	6471488	6471637	-	1
## 8599	protein_coding	chr1	6470990	6471100	-	1
## 8600	protein_coding	chr1	6470990	6471100	-	1
## 8601	protein_coding	chr1	6470735	6470884	-	1
## 8602	protein_coding	chr1	6470735	6470884	-	1
## 8603	protein_coding	chr1	6470506	6470643	-	1
## 8604	protein_coding	chr1	6470506	6470643	-	1
## 8605	protein_coding	chr1	6470236	6470355	-	1
## 8606	protein_coding	chr1	6470236	6470355	-	1
## 8607	protein_coding	chr1	6469544	6469676	-	1
## 8608	protein_coding	chr1	6469544	6469676	-	1
## 8609	protein_coding	chr1	6469335	6469450	-	1
## 8610	protein_coding	chr1	6469335	6469450	-	1
## 8611	protein_coding	chr1	6469042	6469241	-	1
## 8612	protein_coding	chr1	6469042	6469241	-	1
## 8613	protein_coding	chr1	6467825	6468586	-	1
## 8614	protein_coding	chr1	6467825	6468586	-	1
## 8615	protein_coding	chr1	6467122	6467572	-	1
## 8616	protein_coding	chr1	6467566	6467572	-	1
## 8617	protein_coding	chr1	6467563	6467565	-	1
## 8618	protein_coding	chr1	6496517	6496696	-	1
## 8619	protein_coding	chr1	6467122	6467565	-	1
## 8620	protein_coding	chr1	6467122	6497390	-	1
## 8621	protein_coding	chr1	6497320	6497390	-	1
## 8622	protein_coding	chr1	6497320	6497323	-	1
## 8623	protein_coding	chr1	6497321	6497323	-	1
## 8624	protein_coding	chr1	6496493	6496569	-	1
## 8625	protein_coding	chr1	6496493	6496569	-	1
## 8626	protein_coding	chr1	6477529	6477658	-	1
## 8627	protein_coding	chr1	6477529	6477658	-	1
## 8628	protein_coding	chr1	6475931	6476036	-	1
## 8629	protein_coding	chr1	6475931	6476036	-	1

## 8630	protein_coding	chr1	6475462	6475522	-	1
## 8631	protein_coding	chr1	6475462	6475522	-	1
## 8632	protein_coding	chr1	6475047	6475138	-	1
## 8633	protein_coding	chr1	6475047	6475138	-	1
## 8634	protein_coding	chr1	6474451	6474587	-	1
## 8635	protein_coding	chr1	6474451	6474587	-	1
## 8636	protein_coding	chr1	6474013	6474164	-	1
## 8637	protein_coding	chr1	6474013	6474164	-	1
## 8638	protein_coding	chr1	6473251	6473454	-	1
## 8639	protein_coding	chr1	6473251	6473454	-	1
## 8640	protein_coding	chr1	6472986	6473174	-	1
## 8641	protein_coding	chr1	6472986	6473174	-	1
## 8642	protein_coding	chr1	6472527	6472622	-	1
## 8643	protein_coding	chr1	6472527	6472622	-	1
## 8644	protein_coding	chr1	6471758	6471808	-	1
## 8645	protein_coding	chr1	6471758	6471808	-	1
## 8646	protein_coding	chr1	6471488	6471637	-	1
## 8647	protein_coding	chr1	6471488	6471637	-	1
## 8648	protein_coding	chr1	6470990	6471100	-	1
## 8649	protein_coding	chr1	6470990	6471100	-	1
## 8650	protein_coding	chr1	6470735	6470884	-	1
## 8651	protein_coding	chr1	6470735	6470884	-	1
## 8652	protein_coding	chr1	6470506	6470643	-	1
## 8653	protein_coding	chr1	6470506	6470643	-	1
## 8654	protein_coding	chr1	6470236	6470355	-	1
## 8655	protein_coding	chr1	6470236	6470355	-	1
## 8656	protein_coding	chr1	6469544	6469676	-	1
## 8657	protein_coding	chr1	6469544	6469676	-	1
## 8658	protein_coding	chr1	6469335	6469450	-	1
## 8659	protein_coding	chr1	6469335	6469450	-	1
## 8660	protein_coding	chr1	6469042	6469241	-	1
## 8661	protein_coding	chr1	6469042	6469241	-	1
## 8662	protein_coding	chr1	6467825	6468586	-	1
## 8663	protein_coding	chr1	6467825	6468586	-	1
## 8664	protein_coding	chr1	6467122	6467572	-	1
## 8665	protein_coding	chr1	6467566	6467572	-	1
## 8666	protein_coding	chr1	6467563	6467565	-	1
## 8667	protein_coding	chr1	6497324	6497390	-	1
## 8668	protein_coding	chr1	6467122	6467565	-	1
## 8669	protein_coding	chr1	6467122	6520061	-	1
## 8670	protein_coding	chr1	6519445	6520061	-	1
## 8671	protein_coding	chr1	6519445	6519511	-	1
## 8672	protein_coding	chr1	6519509	6519511	-	1
## 8673	protein_coding	chr1	6496493	6496569	-	1
## 8674	protein_coding	chr1	6496493	6496569	-	1
## 8675	protein_coding	chr1	6477529	6477658	-	1
## 8676	protein_coding	chr1	6477529	6477658	-	1
## 8677	protein_coding	chr1	6475931	6476036	-	1
## 8678	protein_coding	chr1	6475931	6476036	-	1
## 8679	protein_coding	chr1	6475462	6475522	-	1
## 8680	protein_coding	chr1	6475462	6475522	-	1
## 8681	protein_coding	chr1	6475047	6475138	-	1
## 8682	protein_coding	chr1	6475047	6475138	-	1
## 8683	protein_coding	chr1	6474451	6474587	-	1

## 8684	protein_coding	chr1	6474451	6474587	-	1
## 8685	protein_coding	chr1	6474013	6474164	-	1
## 8686	protein_coding	chr1	6474013	6474164	-	1
## 8687	protein_coding	chr1	6473251	6473454	-	1
## 8688	protein_coding	chr1	6473251	6473454	-	1
## 8689	protein_coding	chr1	6472986	6473174	-	1
## 8690	protein_coding	chr1	6472986	6473174	-	1
## 8691	protein_coding	chr1	6472527	6472622	-	1
## 8692	protein_coding	chr1	6472527	6472622	-	1
## 8693	protein_coding	chr1	6471758	6471808	-	1
## 8694	protein_coding	chr1	6471758	6471808	-	1
## 8695	protein_coding	chr1	6471488	6471637	-	1
## 8696	protein_coding	chr1	6471488	6471637	-	1
## 8697	protein_coding	chr1	6470990	6471100	-	1
## 8698	protein_coding	chr1	6470990	6471100	-	1
## 8699	protein_coding	chr1	6470735	6470884	-	1
## 8700	protein_coding	chr1	6470735	6470884	-	1
## 8701	protein_coding	chr1	6470506	6470643	-	1
## 8702	protein_coding	chr1	6470506	6470643	-	1
## 8703	protein_coding	chr1	6470236	6470355	-	1
## 8704	protein_coding	chr1	6470236	6470355	-	1
## 8705	protein_coding	chr1	6469544	6469676	-	1
## 8706	protein_coding	chr1	6469544	6469676	-	1
## 8707	protein_coding	chr1	6469335	6469450	-	1
## 8708	protein_coding	chr1	6469335	6469450	-	1
## 8709	protein_coding	chr1	6469042	6469241	-	1
## 8710	protein_coding	chr1	6469042	6469241	-	1
## 8711	protein_coding	chr1	6467825	6467893	-	1
## 8712	protein_coding	chr1	6467825	6467893	-	1
## 8713	protein_coding	chr1	6467122	6467572	-	1
## 8714	protein_coding	chr1	6467566	6467572	-	1
## 8715	protein_coding	chr1	6467563	6467565	-	1
## 8716	protein_coding	chr1	6519512	6520061	-	1
## 8717	protein_coding	chr1	6467122	6467565	-	1
## 8718	protein_coding	chr1	6521347	6554513	-	1
## 8719	protein_coding	chr1	6521347	6554513	-	1
## 8720	protein_coding	chr1	6554107	6554513	-	1
## 8721	protein_coding	chr1	6554107	6554502	-	1
## 8722	protein_coding	chr1	6554500	6554502	-	1
## 8723	protein_coding	chr1	6550396	6550615	-	1
## 8724	protein_coding	chr1	6550396	6550615	-	1
## 8725	protein_coding	chr1	6549571	6549698	-	1
## 8726	protein_coding	chr1	6549571	6549698	-	1
## 8727	protein_coding	chr1	6545045	6545180	-	1
## 8728	protein_coding	chr1	6545045	6545180	-	1
## 8729	protein_coding	chr1	6544826	6544922	-	1
## 8730	protein_coding	chr1	6544826	6544922	-	1
## 8731	protein_coding	chr1	6541830	6541927	-	1
## 8732	protein_coding	chr1	6541830	6541927	-	1
## 8733	protein_coding	chr1	6533280	6533441	-	1
## 8734	protein_coding	chr1	6533280	6533441	-	1
## 8735	protein_coding	chr1	6532463	6532760	-	1
## 8736	protein_coding	chr1	6532463	6532760	-	1
## 8737	protein_coding	chr1	6531968	6532079	-	1

## 8738	protein_coding	chr1	6531968	6532079	-	1
## 8739	protein_coding	chr1	6528994	6529171	-	1
## 8740	protein_coding	chr1	6528994	6529171	-	1
## 8741	protein_coding	chr1	6526696	6526829	-	1
## 8742	protein_coding	chr1	6526696	6526829	-	1
## 8743	protein_coding	chr1	6521347	6526003	-	1
## 8744	protein_coding	chr1	6525857	6526003	-	1
## 8745	protein_coding	chr1	6525854	6525856	-	1
## 8746	protein_coding	chr1	6554503	6554513	-	1
## 8747	protein_coding	chr1	6521347	6525856	-	1
## 8748	snRNA	chr1	6540854	6540964	+	1
## 8749	snRNA	chr1	6540854	6540964	+	1
## 8750	snRNA	chr1	6540854	6540964	+	1
## 8751	processed_pseudogene	chr1	6547905	6548619	+	0
## 8752	processed_pseudogene	chr1	6547905	6548619	+	0
## 8753	processed_pseudogene	chr1	6547905	6548133	+	0
## 8754	processed_pseudogene	chr1	6548448	6548619	+	0
## 8755	protein_coding	chr1	6555307	6579755	+	1
## 8756	protein_coding	chr1	6555307	6579755	+	1
## 8757	protein_coding	chr1	6555307	6555564	+	1
## 8758	protein_coding	chr1	6555374	6555564	+	1
## 8759	protein_coding	chr1	6555374	6555376	+	1
## 8760	protein_coding	chr1	6570909	6571215	+	1
## 8761	protein_coding	chr1	6570909	6571215	+	1
## 8762	protein_coding	chr1	6574631	6575392	+	1
## 8763	protein_coding	chr1	6574631	6575392	+	1
## 8764	protein_coding	chr1	6576415	6576627	+	1
## 8765	protein_coding	chr1	6576415	6576627	+	1
## 8766	protein_coding	chr1	6576950	6577070	+	1
## 8767	protein_coding	chr1	6576950	6577070	+	1
## 8768	protein_coding	chr1	6578653	6579755	+	1
## 8769	protein_coding	chr1	6578653	6579581	+	1
## 8770	protein_coding	chr1	6579582	6579584	+	1
## 8771	protein_coding	chr1	6555307	6555373	+	1
## 8772	protein_coding	chr1	6579582	6579755	+	1
## 8773	protein_coding	chr1	6555309	6579626	+	1
## 8774	protein_coding	chr1	6555309	6555564	+	1
## 8775	protein_coding	chr1	6555374	6555564	+	1
## 8776	protein_coding	chr1	6555374	6555376	+	1
## 8777	protein_coding	chr1	6570909	6571215	+	1
## 8778	protein_coding	chr1	6570909	6571215	+	1
## 8779	protein_coding	chr1	6576415	6576627	+	1
## 8780	protein_coding	chr1	6576415	6576627	+	1
## 8781	protein_coding	chr1	6576950	6577070	+	1
## 8782	protein_coding	chr1	6576950	6577070	+	1
## 8783	protein_coding	chr1	6578653	6579626	+	1
## 8784	protein_coding	chr1	6578653	6579581	+	1
## 8785	protein_coding	chr1	6579582	6579584	+	1
## 8786	protein_coding	chr1	6555309	6555373	+	1
## 8787	protein_coding	chr1	6579582	6579626	+	1
## 8788	protein_coding	chr1	6579994	6589280	+	1
## 8789	protein_coding	chr1	6579994	6589280	+	1
## 8790	protein_coding	chr1	6579994	6580136	+	1
## 8791	protein_coding	chr1	6580541	6581299	+	1

## 8792	protein_coding	chr1	6580610	6581299	+	1
## 8793	protein_coding	chr1	6580610	6580612	+	1
## 8794	protein_coding	chr1	6582058	6582299	+	1
## 8795	protein_coding	chr1	6582058	6582299	+	1
## 8796	protein_coding	chr1	6585919	6586030	+	1
## 8797	protein_coding	chr1	6585919	6586030	+	1
## 8798	protein_coding	chr1	6586695	6586787	+	1
## 8799	protein_coding	chr1	6586695	6586787	+	1
## 8800	protein_coding	chr1	6587205	6587291	+	1
## 8801	protein_coding	chr1	6587205	6587291	+	1
## 8802	protein_coding	chr1	6587478	6587632	+	1
## 8803	protein_coding	chr1	6587478	6587632	+	1
## 8804	protein_coding	chr1	6588060	6588196	+	1
## 8805	protein_coding	chr1	6588060	6588196	+	1
## 8806	protein_coding	chr1	6588278	6588442	+	1
## 8807	protein_coding	chr1	6588278	6588442	+	1
## 8808	protein_coding	chr1	6588756	6588844	+	1
## 8809	protein_coding	chr1	6588756	6588844	+	1
## 8810	protein_coding	chr1	6588916	6589280	+	1
## 8811	protein_coding	chr1	6588916	6589209	+	1
## 8812	protein_coding	chr1	6589210	6589212	+	1
## 8813	protein_coding	chr1	6579994	6580136	+	1
## 8814	protein_coding	chr1	6580541	6580609	+	1
## 8815	protein_coding	chr1	6589210	6589280	+	1
## 8816	protein_coding	chr1	6590724	6614607	-	1
## 8817	protein_coding	chr1	6590724	6602869	-	1
## 8818	protein_coding	chr1	6601797	6602869	-	1
## 8819	protein_coding	chr1	6601797	6602817	-	1
## 8820	protein_coding	chr1	6602815	6602817	-	1
## 8821	protein_coding	chr1	6599047	6599452	-	1
## 8822	protein_coding	chr1	6599047	6599452	-	1
## 8823	protein_coding	chr1	6595485	6595557	-	1
## 8824	protein_coding	chr1	6595485	6595557	-	1
## 8825	protein_coding	chr1	6590724	6593658	-	1
## 8826	protein_coding	chr1	6593368	6593658	-	1
## 8827	protein_coding	chr1	6593365	6593367	-	1
## 8828	protein_coding	chr1	6602818	6602869	-	1
## 8829	protein_coding	chr1	6590724	6593367	-	1
## 8830	protein_coding	chr1	6590724	6603001	-	1
## 8831	protein_coding	chr1	6601797	6603001	-	1
## 8832	protein_coding	chr1	6601797	6602817	-	1
## 8833	protein_coding	chr1	6602815	6602817	-	1
## 8834	protein_coding	chr1	6599047	6599452	-	1
## 8835	protein_coding	chr1	6599047	6599452	-	1
## 8836	protein_coding	chr1	6590724	6595557	-	1
## 8837	protein_coding	chr1	6595368	6595557	-	1
## 8838	protein_coding	chr1	6595365	6595367	-	1
## 8839	protein_coding	chr1	6602818	6603001	-	1
## 8840	protein_coding	chr1	6590724	6595367	-	1
## 8841	protein_coding	chr1	6593193	6614560	-	1
## 8842	protein_coding	chr1	6614450	6614560	-	1
## 8843	protein_coding	chr1	6599047	6599452	-	1
## 8844	protein_coding	chr1	6599047	6599372	-	1
## 8845	protein_coding	chr1	6599370	6599372	-	1

## 8846	protein_coding	chr1	6595485	6595557	-	1
## 8847	protein_coding	chr1	6595485	6595557	-	1
## 8848	protein_coding	chr1	6593193	6593658	-	1
## 8849	protein_coding	chr1	6593368	6593658	-	1
## 8850	protein_coding	chr1	6593365	6593367	-	1
## 8851	protein_coding	chr1	6614450	6614560	-	1
## 8852	protein_coding	chr1	6599373	6599452	-	1
## 8853	protein_coding	chr1	6593193	6593367	-	1
## 8854	protein_coding	chr1	6593205	6603684	-	1
## 8855	protein_coding	chr1	6603454	6603684	-	1
## 8856	protein_coding	chr1	6593205	6594918	-	1
## 8857	protein_coding	chr1	6593368	6593472	-	1
## 8858	protein_coding	chr1	6593470	6593472	-	1
## 8859	protein_coding	chr1	6593365	6593367	-	1
## 8860	protein_coding	chr1	6603454	6603684	-	1
## 8861	protein_coding	chr1	6593205	6593367	-	1
## 8862	protein_coding	chr1	6593473	6594918	-	1
## 8863	protein_coding	chr1	6594081	6614607	-	1
## 8864	protein_coding	chr1	6614450	6614607	-	1
## 8865	protein_coding	chr1	6599047	6599452	-	1
## 8866	protein_coding	chr1	6599047	6599372	-	1
## 8867	protein_coding	chr1	6599370	6599372	-	1
## 8868	protein_coding	chr1	6595485	6595557	-	1
## 8869	protein_coding	chr1	6595485	6595557	-	1
## 8870	protein_coding	chr1	6594081	6594110	-	1
## 8871	protein_coding	chr1	6594108	6594110	-	1
## 8872	protein_coding	chr1	6614450	6614607	-	1
## 8873	protein_coding	chr1	6599373	6599452	-	1
## 8874	protein_coding	chr1	6594081	6594110	-	1
## 8875	protein_coding	chr1	6613731	6624030	+	1
## 8876	protein_coding	chr1	6613731	6624030	+	1
## 8877	protein_coding	chr1	6613731	6614105	+	1
## 8878	protein_coding	chr1	6614067	6614105	+	1
## 8879	protein_coding	chr1	6614067	6614069	+	1
## 8880	protein_coding	chr1	6616757	6616858	+	1
## 8881	protein_coding	chr1	6616757	6616858	+	1
## 8882	protein_coding	chr1	6619803	6620337	+	1
## 8883	protein_coding	chr1	6619803	6620337	+	1
## 8884	protein_coding	chr1	6621411	6624030	+	1
## 8885	protein_coding	chr1	6621411	6621634	+	1
## 8886	protein_coding	chr1	6621635	6621637	+	1
## 8887	protein_coding	chr1	6613731	6614066	+	1
## 8888	protein_coding	chr1	6621635	6624030	+	1
## 8889	protein_coding	chr1	6624866	6635586	+	1
## 8890	protein_coding	chr1	6624866	6633565	+	1
## 8891	protein_coding	chr1	6624866	6624954	+	1
## 8892	protein_coding	chr1	6625150	6625292	+	1
## 8893	protein_coding	chr1	6625219	6625292	+	1
## 8894	protein_coding	chr1	6625219	6625221	+	1
## 8895	protein_coding	chr1	6628499	6628691	+	1
## 8896	protein_coding	chr1	6628499	6628691	+	1
## 8897	protein_coding	chr1	6630288	6630353	+	1
## 8898	protein_coding	chr1	6630288	6630353	+	1
## 8899	protein_coding	chr1	6632391	6632495	+	1

## 8900	protein_coding	chr1	6632391	6632495	+	1
## 8901	protein_coding	chr1	6632796	6633565	+	1
## 8902	protein_coding	chr1	6632796	6633074	+	1
## 8903	protein_coding	chr1	6633075	6633077	+	1
## 8904	protein_coding	chr1	6624866	6624954	+	1
## 8905	protein_coding	chr1	6625150	6625218	+	1
## 8906	protein_coding	chr1	6633075	6633565	+	1
## 8907	protein_coding	chr1	6625181	6633368	+	1
## 8908	protein_coding	chr1	6625181	6625292	+	1
## 8909	protein_coding	chr1	6625219	6625292	+	1
## 8910	protein_coding	chr1	6625219	6625221	+	1
## 8911	protein_coding	chr1	6628499	6628691	+	1
## 8912	protein_coding	chr1	6628499	6628691	+	1
## 8913	protein_coding	chr1	6630291	6630353	+	1
## 8914	protein_coding	chr1	6630291	6630353	+	1
## 8915	protein_coding	chr1	6632391	6632495	+	1
## 8916	protein_coding	chr1	6632391	6632495	+	1
## 8917	protein_coding	chr1	6632796	6633368	+	1
## 8918	protein_coding	chr1	6632796	6633074	+	1
## 8919	protein_coding	chr1	6633075	6633077	+	1
## 8920	protein_coding	chr1	6625181	6625218	+	1
## 8921	protein_coding	chr1	6633075	6633368	+	1
## 8922	protein_coding	chr1	6625192	6635586	+	1
## 8923	protein_coding	chr1	6625192	6625292	+	1
## 8924	protein_coding	chr1	6625219	6625292	+	1
## 8925	protein_coding	chr1	6625219	6625221	+	1
## 8926	protein_coding	chr1	6628499	6628691	+	1
## 8927	protein_coding	chr1	6628499	6628691	+	1
## 8928	protein_coding	chr1	6630288	6630353	+	1
## 8929	protein_coding	chr1	6630288	6630353	+	1
## 8930	protein_coding	chr1	6632370	6632495	+	1
## 8931	protein_coding	chr1	6632370	6632495	+	1
## 8932	protein_coding	chr1	6634020	6635586	+	1
## 8933	protein_coding	chr1	6634020	6634085	+	1
## 8934	protein_coding	chr1	6634086	6634088	+	1
## 8935	protein_coding	chr1	6625192	6625218	+	1
## 8936	protein_coding	chr1	6634086	6635586	+	1
## 8937	protein_coding	chr1	6634168	6701924	-	1
## 8938	protein_coding	chr1	6634170	6701816	-	1
## 8939	protein_coding	chr1	6701729	6701816	-	1
## 8940	protein_coding	chr1	6701729	6701800	-	1
## 8941	protein_coding	chr1	6701798	6701800	-	1
## 8942	protein_coding	chr1	6680908	6681037	-	1
## 8943	protein_coding	chr1	6680908	6681037	-	1
## 8944	protein_coding	chr1	6678394	6678467	-	1
## 8945	protein_coding	chr1	6678394	6678467	-	1
## 8946	protein_coding	chr1	6667709	6667810	-	1
## 8947	protein_coding	chr1	6667709	6667810	-	1
## 8948	protein_coding	chr1	6653911	6654039	-	1
## 8949	protein_coding	chr1	6653911	6654039	-	1
## 8950	protein_coding	chr1	6652829	6652951	-	1
## 8951	protein_coding	chr1	6652829	6652951	-	1
## 8952	protein_coding	chr1	6651529	6651602	-	1
## 8953	protein_coding	chr1	6651529	6651602	-	1

## 8954	protein_coding	chr1	6645789	6645978	-	1
## 8955	protein_coding	chr1	6645789	6645978	-	1
## 8956	protein_coding	chr1	6645041	6645126	-	1
## 8957	protein_coding	chr1	6645041	6645126	-	1
## 8958	protein_coding	chr1	6644558	6644674	-	1
## 8959	protein_coding	chr1	6644558	6644674	-	1
## 8960	protein_coding	chr1	6639902	6640057	-	1
## 8961	protein_coding	chr1	6639902	6640057	-	1
## 8962	protein_coding	chr1	6638295	6638364	-	1
## 8963	protein_coding	chr1	6638295	6638364	-	1
## 8964	protein_coding	chr1	6637447	6637504	-	1
## 8965	protein_coding	chr1	6637447	6637504	-	1
## 8966	protein_coding	chr1	6637198	6637340	-	1
## 8967	protein_coding	chr1	6637198	6637340	-	1
## 8968	protein_coding	chr1	6636117	6636246	-	1
## 8969	protein_coding	chr1	6636117	6636246	-	1
## 8970	protein_coding	chr1	6634170	6635700	-	1
## 8971	protein_coding	chr1	6635678	6635700	-	1
## 8972	protein_coding	chr1	6635675	6635677	-	1
## 8973	protein_coding	chr1	6701801	6701816	-	1
## 8974	protein_coding	chr1	6634170	6635677	-	1
## 8975	protein_coding	chr1	6635113	6701924	-	1
## 8976	protein_coding	chr1	6701729	6701924	-	1
## 8977	protein_coding	chr1	6701729	6701800	-	1
## 8978	protein_coding	chr1	6701798	6701800	-	1
## 8979	protein_coding	chr1	6680908	6681037	-	1
## 8980	protein_coding	chr1	6680908	6681037	-	1
## 8981	protein_coding	chr1	6678394	6678467	-	1
## 8982	protein_coding	chr1	6678394	6678467	-	1
## 8983	protein_coding	chr1	6667709	6667810	-	1
## 8984	protein_coding	chr1	6667709	6667810	-	1
## 8985	protein_coding	chr1	6653911	6654039	-	1
## 8986	protein_coding	chr1	6653911	6654039	-	1
## 8987	protein_coding	chr1	6652829	6652951	-	1
## 8988	protein_coding	chr1	6652829	6652951	-	1
## 8989	protein_coding	chr1	6651529	6651602	-	1
## 8990	protein_coding	chr1	6651529	6651602	-	1
## 8991	protein_coding	chr1	6645789	6645978	-	1
## 8992	protein_coding	chr1	6645789	6645978	-	1
## 8993	protein_coding	chr1	6645041	6645126	-	1
## 8994	protein_coding	chr1	6645041	6645126	-	1
## 8995	protein_coding	chr1	6644558	6644674	-	1
## 8996	protein_coding	chr1	6644558	6644674	-	1
## 8997	protein_coding	chr1	6638295	6638364	-	1
## 8998	protein_coding	chr1	6638295	6638364	-	1
## 8999	protein_coding	chr1	6637447	6637504	-	1
## 9000	protein_coding	chr1	6637447	6637504	-	1
## 9001	protein_coding	chr1	6637198	6637340	-	1
## 9002	protein_coding	chr1	6637198	6637340	-	1
## 9003	protein_coding	chr1	6636117	6636246	-	1
## 9004	protein_coding	chr1	6636117	6636246	-	1
## 9005	protein_coding	chr1	6635113	6635700	-	1
## 9006	protein_coding	chr1	6635678	6635700	-	1
## 9007	protein_coding	chr1	6635675	6635677	-	1

## 9008	protein_coding	chr1	6701801	6701924	-	1
## 9009	protein_coding	chr1	6635113	6635677	-	1
## 9010	lncRNA	chr1	6724637	6730012	+	1
## 9011	lncRNA	chr1	6724637	6727408	+	1
## 9012	lncRNA	chr1	6724637	6724850	+	1
## 9013	lncRNA	chr1	6725937	6727408	+	1
## 9014	lncRNA	chr1	6724643	6730012	+	1
## 9015	lncRNA	chr1	6724643	6724850	+	1
## 9016	lncRNA	chr1	6727433	6727612	+	1
## 9017	lncRNA	chr1	6729720	6730012	+	1
## 9018	lncRNA	chr1	6767954	6770038	+	0
## 9019	lncRNA	chr1	6767954	6770038	+	0
## 9020	lncRNA	chr1	6767954	6768762	+	0
## 9021	lncRNA	chr1	6769727	6769776	+	0
## 9022	lncRNA	chr1	6769911	6770038	+	0
## 9023	lncRNA	chr1	6783892	6784843	-	1
## 9024	lncRNA	chr1	6783892	6784843	-	1
## 9025	lncRNA	chr1	6784658	6784843	-	1
## 9026	lncRNA	chr1	6784149	6784223	-	1
## 9027	lncRNA	chr1	6783892	6784045	-	1
## 9028	protein_coding	chr1	6785454	7769706	+	1
## 9029	protein_coding	chr1	6785454	7769706	+	1
## 9030	protein_coding	chr1	6785454	6785575	+	1
## 9031	protein_coding	chr1	6785531	6785575	+	1
## 9032	protein_coding	chr1	6785531	6785533	+	1
## 9033	protein_coding	chr1	6820181	6820250	+	1
## 9034	protein_coding	chr1	6820181	6820250	+	1
## 9035	protein_coding	chr1	6825092	6825210	+	1
## 9036	protein_coding	chr1	6825092	6825210	+	1
## 9037	protein_coding	chr1	7091304	7091371	+	1
## 9038	protein_coding	chr1	7091304	7091371	+	1
## 9039	protein_coding	chr1	7249491	7249626	+	1
## 9040	protein_coding	chr1	7249491	7249626	+	1
## 9041	protein_coding	chr1	7467830	7467901	+	1
## 9042	protein_coding	chr1	7467830	7467901	+	1
## 9043	protein_coding	chr1	7640400	7640553	+	1
## 9044	protein_coding	chr1	7640400	7640553	+	1
## 9045	protein_coding	chr1	7661726	7661866	+	1
## 9046	protein_coding	chr1	7661726	7661866	+	1
## 9047	protein_coding	chr1	7663353	7665199	+	1
## 9048	protein_coding	chr1	7663353	7665199	+	1
## 9049	protein_coding	chr1	7670911	7671037	+	1
## 9050	protein_coding	chr1	7670911	7671037	+	1
## 9051	protein_coding	chr1	7677599	7677733	+	1
## 9052	protein_coding	chr1	7677599	7677733	+	1
## 9053	protein_coding	chr1	7732448	7732599	+	1
## 9054	protein_coding	chr1	7732448	7732599	+	1
## 9055	protein_coding	chr1	7736344	7736540	+	1
## 9056	protein_coding	chr1	7736344	7736540	+	1
## 9057	protein_coding	chr1	7736931	7737009	+	1
## 9058	protein_coding	chr1	7736931	7737009	+	1
## 9059	protein_coding	chr1	7737255	7737570	+	1
## 9060	protein_coding	chr1	7737255	7737570	+	1
## 9061	protein_coding	chr1	7737959	7738482	+	1

## 9062	protein_coding	chr1	7737959	7738482	+	1
## 9063	protein_coding	chr1	7744835	7745022	+	1
## 9064	protein_coding	chr1	7744835	7745022	+	1
## 9065	protein_coding	chr1	7745845	7746091	+	1
## 9066	protein_coding	chr1	7745845	7746091	+	1
## 9067	protein_coding	chr1	7747710	7747781	+	1
## 9068	protein_coding	chr1	7747710	7747781	+	1
## 9069	protein_coding	chr1	7751199	7751392	+	1
## 9070	protein_coding	chr1	7751199	7751392	+	1
## 9071	protein_coding	chr1	7752459	7752533	+	1
## 9072	protein_coding	chr1	7752459	7752533	+	1
## 9073	protein_coding	chr1	7755638	7755668	+	1
## 9074	protein_coding	chr1	7755638	7755668	+	1
## 9075	protein_coding	chr1	7766459	7769706	+	1
## 9076	protein_coding	chr1	7766459	7766488	+	1
## 9077	protein_coding	chr1	7766489	7766491	+	1
## 9078	protein_coding	chr1	6785454	6785530	+	1
## 9079	protein_coding	chr1	7766489	7769706	+	1
## 9080	protein_coding	chr1	6785480	6872038	+	1
## 9081	protein_coding	chr1	6785480	6785575	+	1
## 9082	protein_coding	chr1	6785531	6785575	+	1
## 9083	protein_coding	chr1	6785531	6785533	+	1
## 9084	protein_coding	chr1	6820181	6820250	+	1
## 9085	protein_coding	chr1	6820181	6820250	+	1
## 9086	protein_coding	chr1	6825092	6825210	+	1
## 9087	protein_coding	chr1	6825092	6825210	+	1
## 9088	protein_coding	chr1	6871757	6872038	+	1
## 9089	protein_coding	chr1	6871757	6871762	+	1
## 9090	protein_coding	chr1	6871763	6871765	+	1
## 9091	protein_coding	chr1	6785480	6785530	+	1
## 9092	protein_coding	chr1	6871763	6872038	+	1
## 9093	protein_coding	chr1	6785491	6887865	+	1
## 9094	protein_coding	chr1	6785491	6785575	+	1
## 9095	protein_coding	chr1	6785531	6785575	+	1
## 9096	protein_coding	chr1	6785531	6785533	+	1
## 9097	protein_coding	chr1	6820181	6820250	+	1
## 9098	protein_coding	chr1	6820181	6820250	+	1
## 9099	protein_coding	chr1	6825092	6825210	+	1
## 9100	protein_coding	chr1	6825092	6825210	+	1
## 9101	protein_coding	chr1	6887654	6887865	+	1
## 9102	protein_coding	chr1	6887654	6887722	+	1
## 9103	protein_coding	chr1	6887723	6887725	+	1
## 9104	protein_coding	chr1	6785491	6785530	+	1
## 9105	protein_coding	chr1	6887723	6887865	+	1
## 9106	protein_coding	chr1	6785518	6872019	+	1
## 9107	protein_coding	chr1	6785518	6785575	+	1
## 9108	protein_coding	chr1	6785531	6785575	+	1
## 9109	protein_coding	chr1	6785531	6785533	+	1
## 9110	protein_coding	chr1	6806983	6807088	+	1
## 9111	protein_coding	chr1	6806983	6807088	+	1
## 9112	protein_coding	chr1	6825092	6825210	+	1
## 9113	protein_coding	chr1	6825092	6825210	+	1
## 9114	protein_coding	chr1	6871757	6872019	+	1
## 9115	protein_coding	chr1	6871757	6871762	+	1

## 9116	protein_coding	chr1	6871763	6871765	+	1
## 9117	protein_coding	chr1	6785518	6785530	+	1
## 9118	protein_coding	chr1	6871763	6872019	+	1
## 9119	protein_coding	chr1	7744961	7766522	+	1
## 9120	protein_coding	chr1	7744961	7745022	+	1
## 9121	protein_coding	chr1	7744961	7745022	+	1
## 9122	protein_coding	chr1	7744961	7744963	+	1
## 9123	protein_coding	chr1	7745845	7746091	+	1
## 9124	protein_coding	chr1	7745845	7746091	+	1
## 9125	protein_coding	chr1	7747710	7747781	+	1
## 9126	protein_coding	chr1	7747710	7747781	+	1
## 9127	protein_coding	chr1	7751199	7751392	+	1
## 9128	protein_coding	chr1	7751199	7751392	+	1
## 9129	protein_coding	chr1	7752459	7752533	+	1
## 9130	protein_coding	chr1	7752459	7752533	+	1
## 9131	protein_coding	chr1	7766459	7766522	+	1
## 9132	protein_coding	chr1	7766459	7766519	+	1
## 9133	protein_coding	chr1	7766520	7766522	+	1
## 9134	protein_coding	chr1	7766520	7766522	+	1
## 9135	processed_pseudogene	chr1	6834333	6834618	-	0
## 9136	processed_pseudogene	chr1	6834333	6834618	-	0
## 9137	processed_pseudogene	chr1	6834333	6834618	-	0
## 9138	lncRNA	chr1	7008376	7014279	-	0
## 9139	lncRNA	chr1	7008376	7014279	-	0
## 9140	lncRNA	chr1	7014251	7014279	-	0
## 9141	lncRNA	chr1	7008376	7008695	-	0
## 9142	snRNA	chr1	7219360	7219524	+	1
## 9143	snRNA	chr1	7219360	7219524	+	1
## 9144	snRNA	chr1	7219360	7219524	+	1
## 9145	lncRNA	chr1	7368942	7370270	+	1
## 9146	lncRNA	chr1	7368942	7370270	+	1
## 9147	lncRNA	chr1	7368942	7369116	+	1
## 9148	lncRNA	chr1	7370081	7370270	+	1
## 9149	lncRNA	chr1	7382487	7389754	-	0
## 9150	lncRNA	chr1	7382487	7389754	-	0
## 9151	lncRNA	chr1	7389659	7389754	-	0
## 9152	lncRNA	chr1	7389340	7389439	-	0
## 9153	lncRNA	chr1	7382487	7382723	-	0
## 9154	lncRNA	chr1	7388183	7389419	-	0
## 9155	lncRNA	chr1	7389340	7389419	-	0
## 9156	lncRNA	chr1	7388183	7388493	-	0
## 9157	lncRNA	chr1	7441096	7441554	-	0
## 9158	lncRNA	chr1	7441096	7441554	-	0
## 9159	lncRNA	chr1	7441280	7441554	-	0
## 9160	lncRNA	chr1	7441096	7441181	-	0
## 9161	lncRNA	chr1	7693124	7694844	-	0
## 9162	lncRNA	chr1	7693124	7694844	-	0
## 9163	lncRNA	chr1	7693124	7694844	-	0
## 9164	lncRNA	chr1	7698303	7698872	-	0
## 9165	lncRNA	chr1	7698303	7698872	-	0
## 9166	lncRNA	chr1	7698303	7698872	-	0
## 9167	lncRNA	chr1	7700704	7700970	-	0
## 9168	lncRNA	chr1	7700704	7700970	-	0
## 9169	lncRNA	chr1	7700704	7700970	-	0

## 9170	protein_coding	chr1	7771296	7781432	+	1
## 9171	protein_coding	chr1	7771296	7781432	+	1
## 9172	protein_coding	chr1	7771296	7771385	+	1
## 9173	protein_coding	chr1	7771384	7771385	+	1
## 9174	protein_coding	chr1	7771384	7771385	+	1
## 9175	protein_coding	chr1	7773442	7773442	+	1
## 9176	protein_coding	chr1	7773442	7773511	+	1
## 9177	protein_coding	chr1	7773442	7773511	+	1
## 9178	protein_coding	chr1	7777160	7777318	+	1
## 9179	protein_coding	chr1	7777160	7777318	+	1
## 9180	protein_coding	chr1	7778118	7778169	+	1
## 9181	protein_coding	chr1	7778118	7778169	+	1
## 9182	protein_coding	chr1	7779626	7781432	+	1
## 9183	protein_coding	chr1	7779626	7779642	+	1
## 9184	protein_coding	chr1	7779643	7779645	+	1
## 9185	protein_coding	chr1	7771296	7771383	+	1
## 9186	protein_coding	chr1	7779643	7781432	+	1
## 9187	protein_coding	chr1	7772707	7779806	+	1
## 9188	protein_coding	chr1	7772707	7773198	+	1
## 9189	protein_coding	chr1	7773442	7773511	+	1
## 9190	protein_coding	chr1	7777160	7777318	+	1
## 9191	protein_coding	chr1	7777172	7777318	+	1
## 9192	protein_coding	chr1	7777172	7777174	+	1
## 9193	protein_coding	chr1	7778118	7778169	+	1
## 9194	protein_coding	chr1	7778118	7778169	+	1
## 9195	protein_coding	chr1	7779626	7779806	+	1
## 9196	protein_coding	chr1	7779626	7779642	+	1
## 9197	protein_coding	chr1	7779643	7779645	+	1
## 9198	protein_coding	chr1	7772707	7773198	+	1
## 9199	protein_coding	chr1	7773442	7773511	+	1
## 9200	protein_coding	chr1	7777160	7777171	+	1
## 9201	protein_coding	chr1	7779643	7779806	+	1
## 9202	lncRNA	chr1	7776383	7776775	+	0
## 9203	lncRNA	chr1	7776383	7776775	+	0
## 9204	lncRNA	chr1	7776383	7776775	+	0
## 9205	protein_coding	chr1	7784320	7845177	+	1
## 9206	protein_coding	chr1	7784320	7803958	+	1
## 9207	protein_coding	chr1	7784320	7784376	+	1
## 9208	protein_coding	chr1	7784654	7785005	+	1
## 9209	protein_coding	chr1	7784878	7785005	+	1
## 9210	protein_coding	chr1	7784878	7784880	+	1
## 9211	protein_coding	chr1	7785441	7785586	+	1
## 9212	protein_coding	chr1	7785441	7785586	+	1
## 9213	protein_coding	chr1	7786721	7786836	+	1
## 9214	protein_coding	chr1	7786721	7786836	+	1
## 9215	protein_coding	chr1	7788045	7788246	+	1
## 9216	protein_coding	chr1	7788045	7788246	+	1
## 9217	protein_coding	chr1	7793960	7794008	+	1
## 9218	protein_coding	chr1	7793960	7794008	+	1
## 9219	protein_coding	chr1	7798525	7798673	+	1
## 9220	protein_coding	chr1	7798525	7798673	+	1
## 9221	protein_coding	chr1	7801113	7801191	+	1
## 9222	protein_coding	chr1	7801113	7801191	+	1
## 9223	protein_coding	chr1	7803047	7803153	+	1

## 9224	protein_coding	chr1	7803047	7803153	+	1
## 9225	protein_coding	chr1	7803692	7803958	+	1
## 9226	protein_coding	chr1	7803692	7803849	+	1
## 9227	protein_coding	chr1	7803850	7803852	+	1
## 9228	protein_coding	chr1	7784320	7784376	+	1
## 9229	protein_coding	chr1	7784654	7784877	+	1
## 9230	protein_coding	chr1	7803850	7803958	+	1
## 9231	protein_coding	chr1	7784429	7845176	+	1
## 9232	protein_coding	chr1	7784429	7784468	+	1
## 9233	protein_coding	chr1	7784654	7785005	+	1
## 9234	protein_coding	chr1	7784878	7785005	+	1
## 9235	protein_coding	chr1	7784878	7784880	+	1
## 9236	protein_coding	chr1	7785441	7785586	+	1
## 9237	protein_coding	chr1	7785441	7785586	+	1
## 9238	protein_coding	chr1	7786721	7786836	+	1
## 9239	protein_coding	chr1	7786721	7786836	+	1
## 9240	protein_coding	chr1	7788045	7788246	+	1
## 9241	protein_coding	chr1	7788045	7788246	+	1
## 9242	protein_coding	chr1	7793957	7794008	+	1
## 9243	protein_coding	chr1	7793957	7794008	+	1
## 9244	protein_coding	chr1	7798525	7798673	+	1
## 9245	protein_coding	chr1	7798525	7798673	+	1
## 9246	protein_coding	chr1	7801113	7801191	+	1
## 9247	protein_coding	chr1	7801113	7801191	+	1
## 9248	protein_coding	chr1	7803047	7803153	+	1
## 9249	protein_coding	chr1	7803047	7803153	+	1
## 9250	protein_coding	chr1	7803692	7803848	+	1
## 9251	protein_coding	chr1	7803692	7803848	+	1
## 9252	protein_coding	chr1	7808893	7808998	+	1
## 9253	protein_coding	chr1	7808893	7808998	+	1
## 9254	protein_coding	chr1	7809893	7810021	+	1
## 9255	protein_coding	chr1	7809893	7810021	+	1
## 9256	protein_coding	chr1	7810438	7810588	+	1
## 9257	protein_coding	chr1	7810438	7810588	+	1
## 9258	protein_coding	chr1	7819285	7819420	+	1
## 9259	protein_coding	chr1	7819285	7819420	+	1
## 9260	protein_coding	chr1	7820115	7820239	+	1
## 9261	protein_coding	chr1	7820115	7820239	+	1
## 9262	protein_coding	chr1	7820467	7820640	+	1
## 9263	protein_coding	chr1	7820467	7820640	+	1
## 9264	protein_coding	chr1	7826480	7826710	+	1
## 9265	protein_coding	chr1	7826480	7826710	+	1
## 9266	protein_coding	chr1	7827118	7827815	+	1
## 9267	protein_coding	chr1	7827118	7827815	+	1
## 9268	protein_coding	chr1	7829834	7830161	+	1
## 9269	protein_coding	chr1	7829834	7830161	+	1
## 9270	protein_coding	chr1	7835762	7835945	+	1
## 9271	protein_coding	chr1	7835762	7835945	+	1
## 9272	protein_coding	chr1	7836999	7837149	+	1
## 9273	protein_coding	chr1	7836999	7837149	+	1
## 9274	protein_coding	chr1	7842672	7845176	+	1
## 9275	protein_coding	chr1	7842672	7842752	+	1
## 9276	protein_coding	chr1	7842753	7842755	+	1
## 9277	protein_coding	chr1	7784429	7784468	+	1

## 9278	protein_coding	chr1	7784654	7784877	+	1
## 9279	protein_coding	chr1	7842753	7845176	+	1
## 9280	protein_coding	chr1	7784429	7845176	+	1
## 9281	protein_coding	chr1	7784429	7784468	+	1
## 9282	protein_coding	chr1	7784654	7785005	+	1
## 9283	protein_coding	chr1	7784878	7785005	+	1
## 9284	protein_coding	chr1	7784878	7784880	+	1
## 9285	protein_coding	chr1	7785441	7785586	+	1
## 9286	protein_coding	chr1	7785441	7785586	+	1
## 9287	protein_coding	chr1	7786721	7786836	+	1
## 9288	protein_coding	chr1	7786721	7786836	+	1
## 9289	protein_coding	chr1	7788045	7788246	+	1
## 9290	protein_coding	chr1	7788045	7788246	+	1
## 9291	protein_coding	chr1	7793957	7794008	+	1
## 9292	protein_coding	chr1	7793957	7794008	+	1
## 9293	protein_coding	chr1	7798525	7798673	+	1
## 9294	protein_coding	chr1	7798525	7798673	+	1
## 9295	protein_coding	chr1	7801113	7801191	+	1
## 9296	protein_coding	chr1	7801113	7801191	+	1
## 9297	protein_coding	chr1	7803047	7803153	+	1
## 9298	protein_coding	chr1	7803047	7803153	+	1
## 9299	protein_coding	chr1	7803692	7803848	+	1
## 9300	protein_coding	chr1	7803692	7803848	+	1
## 9301	protein_coding	chr1	7808893	7808998	+	1
## 9302	protein_coding	chr1	7808893	7808998	+	1
## 9303	protein_coding	chr1	7809893	7810021	+	1
## 9304	protein_coding	chr1	7809893	7810021	+	1
## 9305	protein_coding	chr1	7810438	7810588	+	1
## 9306	protein_coding	chr1	7810438	7810588	+	1
## 9307	protein_coding	chr1	7819285	7819420	+	1
## 9308	protein_coding	chr1	7819285	7819420	+	1
## 9309	protein_coding	chr1	7820115	7820239	+	1
## 9310	protein_coding	chr1	7820115	7820239	+	1
## 9311	protein_coding	chr1	7820467	7820640	+	1
## 9312	protein_coding	chr1	7820467	7820640	+	1
## 9313	protein_coding	chr1	7826480	7826710	+	1
## 9314	protein_coding	chr1	7826480	7826710	+	1
## 9315	protein_coding	chr1	7827118	7827815	+	1
## 9316	protein_coding	chr1	7827118	7827815	+	1
## 9317	protein_coding	chr1	7829837	7829951	+	1
## 9318	protein_coding	chr1	7829837	7829951	+	1
## 9319	protein_coding	chr1	7830006	7830161	+	1
## 9320	protein_coding	chr1	7830006	7830161	+	1
## 9321	protein_coding	chr1	7835762	7835945	+	1
## 9322	protein_coding	chr1	7835762	7835945	+	1
## 9323	protein_coding	chr1	7836999	7837149	+	1
## 9324	protein_coding	chr1	7836999	7837149	+	1
## 9325	protein_coding	chr1	7842672	7845176	+	1
## 9326	protein_coding	chr1	7842672	7842752	+	1
## 9327	protein_coding	chr1	7842753	7842755	+	1
## 9328	protein_coding	chr1	7784429	7784468	+	1
## 9329	protein_coding	chr1	7784654	7784877	+	1
## 9330	protein_coding	chr1	7842753	7845176	+	1
## 9331	protein_coding	chr1	7784654	7845177	+	1

## 9332	protein_coding	chr1	7784654	7785005	+	1
## 9333	protein_coding	chr1	7784878	7785005	+	1
## 9334	protein_coding	chr1	7784878	7784880	+	1
## 9335	protein_coding	chr1	7785441	7785586	+	1
## 9336	protein_coding	chr1	7785441	7785586	+	1
## 9337	protein_coding	chr1	7786721	7786836	+	1
## 9338	protein_coding	chr1	7786721	7786836	+	1
## 9339	protein_coding	chr1	7788045	7788246	+	1
## 9340	protein_coding	chr1	7788045	7788246	+	1
## 9341	protein_coding	chr1	7793957	7794008	+	1
## 9342	protein_coding	chr1	7793957	7794008	+	1
## 9343	protein_coding	chr1	7798525	7798673	+	1
## 9344	protein_coding	chr1	7798525	7798673	+	1
## 9345	protein_coding	chr1	7801113	7801191	+	1
## 9346	protein_coding	chr1	7801113	7801191	+	1
## 9347	protein_coding	chr1	7803047	7803153	+	1
## 9348	protein_coding	chr1	7803047	7803153	+	1
## 9349	protein_coding	chr1	7803692	7803848	+	1
## 9350	protein_coding	chr1	7803692	7803848	+	1
## 9351	protein_coding	chr1	7808893	7808998	+	1
## 9352	protein_coding	chr1	7808893	7808998	+	1
## 9353	protein_coding	chr1	7809893	7810021	+	1
## 9354	protein_coding	chr1	7809893	7810021	+	1
## 9355	protein_coding	chr1	7810438	7810588	+	1
## 9356	protein_coding	chr1	7810438	7810588	+	1
## 9357	protein_coding	chr1	7819285	7819420	+	1
## 9358	protein_coding	chr1	7819285	7819420	+	1
## 9359	protein_coding	chr1	7820115	7820239	+	1
## 9360	protein_coding	chr1	7820115	7820239	+	1
## 9361	protein_coding	chr1	7820467	7820640	+	1
## 9362	protein_coding	chr1	7820467	7820640	+	1
## 9363	protein_coding	chr1	7826480	7826710	+	1
## 9364	protein_coding	chr1	7826480	7826710	+	1
## 9365	protein_coding	chr1	7827118	7827815	+	1
## 9366	protein_coding	chr1	7827118	7827815	+	1
## 9367	protein_coding	chr1	7829834	7830161	+	1
## 9368	protein_coding	chr1	7829834	7830161	+	1
## 9369	protein_coding	chr1	7835762	7835945	+	1
## 9370	protein_coding	chr1	7835762	7835945	+	1
## 9371	protein_coding	chr1	7836999	7837149	+	1
## 9372	protein_coding	chr1	7836999	7837149	+	1
## 9373	protein_coding	chr1	7842672	7845177	+	1
## 9374	protein_coding	chr1	7842672	7842752	+	1
## 9375	protein_coding	chr1	7842753	7842755	+	1
## 9376	protein_coding	chr1	7784654	7784877	+	1
## 9377	protein_coding	chr1	7842753	7845177	+	1
## 9378	protein_coding	chr1	7784703	7845177	+	1
## 9379	protein_coding	chr1	7784703	7785005	+	1
## 9380	protein_coding	chr1	7784878	7785005	+	1
## 9381	protein_coding	chr1	7784878	7784880	+	1
## 9382	protein_coding	chr1	7785441	7785586	+	1
## 9383	protein_coding	chr1	7785441	7785586	+	1
## 9384	protein_coding	chr1	7786721	7786836	+	1
## 9385	protein_coding	chr1	7786721	7786836	+	1

## 9386	protein_coding	chr1	7788045	7788246	+	1
## 9387	protein_coding	chr1	7788045	7788246	+	1
## 9388	protein_coding	chr1	7793960	7794008	+	1
## 9389	protein_coding	chr1	7793960	7794008	+	1
## 9390	protein_coding	chr1	7798525	7798673	+	1
## 9391	protein_coding	chr1	7798525	7798673	+	1
## 9392	protein_coding	chr1	7801113	7801191	+	1
## 9393	protein_coding	chr1	7801113	7801191	+	1
## 9394	protein_coding	chr1	7803047	7803153	+	1
## 9395	protein_coding	chr1	7803047	7803153	+	1
## 9396	protein_coding	chr1	7803692	7803848	+	1
## 9397	protein_coding	chr1	7803692	7803848	+	1
## 9398	protein_coding	chr1	7808893	7808998	+	1
## 9399	protein_coding	chr1	7808893	7808998	+	1
## 9400	protein_coding	chr1	7809893	7810021	+	1
## 9401	protein_coding	chr1	7809893	7810021	+	1
## 9402	protein_coding	chr1	7810438	7810567	+	1
## 9403	protein_coding	chr1	7810438	7810567	+	1
## 9404	protein_coding	chr1	7819285	7819420	+	1
## 9405	protein_coding	chr1	7819285	7819420	+	1
## 9406	protein_coding	chr1	7820115	7820239	+	1
## 9407	protein_coding	chr1	7820115	7820239	+	1
## 9408	protein_coding	chr1	7820467	7820640	+	1
## 9409	protein_coding	chr1	7820467	7820640	+	1
## 9410	protein_coding	chr1	7826480	7826710	+	1
## 9411	protein_coding	chr1	7826480	7826710	+	1
## 9412	protein_coding	chr1	7827118	7827815	+	1
## 9413	protein_coding	chr1	7827118	7827815	+	1
## 9414	protein_coding	chr1	7829837	7830161	+	1
## 9415	protein_coding	chr1	7829837	7830161	+	1
## 9416	protein_coding	chr1	7835762	7835945	+	1
## 9417	protein_coding	chr1	7835762	7835945	+	1
## 9418	protein_coding	chr1	7836999	7837149	+	1
## 9419	protein_coding	chr1	7836999	7837149	+	1
## 9420	protein_coding	chr1	7842672	7845177	+	1
## 9421	protein_coding	chr1	7842672	7842752	+	1
## 9422	protein_coding	chr1	7842753	7842755	+	1
## 9423	protein_coding	chr1	7784703	7784877	+	1
## 9424	protein_coding	chr1	7842753	7845177	+	1
## 9425	lncRNA	chr1	7810242	7827342	-	0
## 9426	lncRNA	chr1	7810242	7827342	-	0
## 9427	lncRNA	chr1	7827104	7827342	-	0
## 9428	lncRNA	chr1	7811489	7811604	-	0
## 9429	lncRNA	chr1	7810242	7810716	-	0
## 9430	protein_coding	chr1	7843083	7853512	-	1
## 9431	protein_coding	chr1	7843083	7853512	-	1
## 9432	protein_coding	chr1	7853307	7853512	-	1
## 9433	protein_coding	chr1	7852901	7853118	-	1
## 9434	protein_coding	chr1	7852901	7853003	-	1
## 9435	protein_coding	chr1	7853001	7853003	-	1
## 9436	protein_coding	chr1	7850812	7850922	-	1
## 9437	protein_coding	chr1	7850812	7850922	-	1
## 9438	protein_coding	chr1	7849640	7849683	-	1
## 9439	protein_coding	chr1	7849640	7849683	-	1

## 9440	protein_coding	chr1	7847804	7847882	-	1
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## 9442	protein_coding	chr1	7846692	7846766	-	1
## 9443	protein_coding	chr1	7846692	7846766	-	1
## 9444	protein_coding	chr1	7843083	7843950	-	1
## 9445	protein_coding	chr1	7843946	7843950	-	1
## 9446	protein_coding	chr1	7843943	7843945	-	1
## 9447	protein_coding	chr1	7853307	7853512	-	1
## 9448	protein_coding	chr1	7853004	7853118	-	1
## 9449	protein_coding	chr1	7843083	7843945	-	1
## 9450	protein_coding	chr1	7847614	7853035	-	1
## 9451	protein_coding	chr1	7852901	7853035	-	1
## 9452	protein_coding	chr1	7852901	7853003	-	1
## 9453	protein_coding	chr1	7853001	7853003	-	1
## 9454	protein_coding	chr1	7850812	7850922	-	1
## 9455	protein_coding	chr1	7850812	7850922	-	1
## 9456	protein_coding	chr1	7849640	7849683	-	1
## 9457	protein_coding	chr1	7849640	7849683	-	1
## 9458	protein_coding	chr1	7847614	7847882	-	1
## 9459	protein_coding	chr1	7847769	7847882	-	1
## 9460	protein_coding	chr1	7847766	7847768	-	1
## 9461	protein_coding	chr1	7853004	7853035	-	1
## 9462	protein_coding	chr1	7847614	7847768	-	1
## 9463	protein_coding	chr1	7847766	7853431	-	1
## 9464	protein_coding	chr1	7853307	7853431	-	1
## 9465	protein_coding	chr1	7853307	7853431	-	1
## 9466	protein_coding	chr1	7853429	7853431	-	1
## 9467	protein_coding	chr1	7852901	7852923	-	1
## 9468	protein_coding	chr1	7852901	7852923	-	1
## 9469	protein_coding	chr1	7850812	7850922	-	1
## 9470	protein_coding	chr1	7850812	7850922	-	1
## 9471	protein_coding	chr1	7849640	7849683	-	1
## 9472	protein_coding	chr1	7849640	7849683	-	1
## 9473	protein_coding	chr1	7847766	7847882	-	1
## 9474	protein_coding	chr1	7847769	7847882	-	1
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## 9476	protein_coding	chr1	7847766	7847768	-	1
## 9477	protein_coding	chr1	7915894	7943165	-	1
## 9478	protein_coding	chr1	7915894	7943165	-	1
## 9479	protein_coding	chr1	7943139	7943165	-	1
## 9480	protein_coding	chr1	7940784	7940933	-	1
## 9481	protein_coding	chr1	7939895	7940078	-	1
## 9482	protein_coding	chr1	7939895	7939994	-	1
## 9483	protein_coding	chr1	7939992	7939994	-	1
## 9484	protein_coding	chr1	7938721	7938828	-	1
## 9485	protein_coding	chr1	7938721	7938828	-	1
## 9486	protein_coding	chr1	7938193	7938330	-	1
## 9487	protein_coding	chr1	7938193	7938330	-	1
## 9488	protein_coding	chr1	7937690	7937756	-	1
## 9489	protein_coding	chr1	7937690	7937756	-	1
## 9490	protein_coding	chr1	7935013	7935143	-	1
## 9491	protein_coding	chr1	7935013	7935143	-	1
## 9492	protein_coding	chr1	7933162	7933296	-	1
## 9493	protein_coding	chr1	7933162	7933296	-	1

## 9494	protein_coding	chr1	7915894	7920923	-	1
## 9495	protein_coding	chr1	7920838	7920923	-	1
## 9496	protein_coding	chr1	7920835	7920837	-	1
## 9497	protein_coding	chr1	7943139	7943165	-	1
## 9498	protein_coding	chr1	7940784	7940933	-	1
## 9499	protein_coding	chr1	7939995	7940078	-	1
## 9500	protein_coding	chr1	7915894	7920837	-	1
## 9501	protein_coding	chr1	7919847	7940866	-	1
## 9502	protein_coding	chr1	7940784	7940866	-	1
## 9503	protein_coding	chr1	7939895	7940078	-	1
## 9504	protein_coding	chr1	7939895	7939994	-	1
## 9505	protein_coding	chr1	7939992	7939994	-	1
## 9506	protein_coding	chr1	7938721	7938828	-	1
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## 9510	protein_coding	chr1	7937690	7937756	-	1
## 9511	protein_coding	chr1	7937690	7937756	-	1
## 9512	protein_coding	chr1	7935013	7935143	-	1
## 9513	protein_coding	chr1	7935013	7935143	-	1
## 9514	protein_coding	chr1	7933162	7933296	-	1
## 9515	protein_coding	chr1	7933162	7933296	-	1
## 9516	protein_coding	chr1	7919847	7920923	-	1
## 9517	protein_coding	chr1	7920838	7920923	-	1
## 9518	protein_coding	chr1	7920835	7920837	-	1
## 9519	protein_coding	chr1	7940784	7940866	-	1
## 9520	protein_coding	chr1	7939995	7940078	-	1
## 9521	protein_coding	chr1	7919847	7920837	-	1
## 9522	processed_pseudogene	chr1	7942372	7942726	+	0
## 9523	processed_pseudogene	chr1	7942372	7942726	+	0
## 9524	processed_pseudogene	chr1	7942372	7942726	+	0
## 9525	protein_coding	chr1	7954291	7985505	+	1
## 9526	protein_coding	chr1	7961692	7985505	+	1
## 9527	protein_coding	chr1	7961692	7961735	+	1
## 9528	protein_coding	chr1	7962763	7962875	+	1
## 9529	protein_coding	chr1	7962786	7962875	+	1
## 9530	protein_coding	chr1	7962786	7962788	+	1
## 9531	protein_coding	chr1	7965324	7965425	+	1
## 9532	protein_coding	chr1	7965324	7965425	+	1
## 9533	protein_coding	chr1	7969345	7969404	+	1
## 9534	protein_coding	chr1	7969345	7969404	+	1
## 9535	protein_coding	chr1	7970894	7970963	+	1
## 9536	protein_coding	chr1	7970894	7970963	+	1
## 9537	protein_coding	chr1	7977652	7977738	+	1
## 9538	protein_coding	chr1	7977652	7977738	+	1
## 9539	protein_coding	chr1	7984894	7985505	+	1
## 9540	protein_coding	chr1	7984894	7985051	+	1
## 9541	protein_coding	chr1	7985052	7985054	+	1
## 9542	protein_coding	chr1	7961692	7961735	+	1
## 9543	protein_coding	chr1	7962763	7962785	+	1
## 9544	protein_coding	chr1	7985052	7985505	+	1
## 9545	protein_coding	chr1	7961701	7985281	+	1
## 9546	protein_coding	chr1	7961701	7961735	+	1
## 9547	protein_coding	chr1	7962763	7962875	+	1

## 9548	protein_coding	chr1	7962786	7962875	+	1
## 9549	protein_coding	chr1	7962786	7962788	+	1
## 9550	protein_coding	chr1	7965324	7965425	+	1
## 9551	protein_coding	chr1	7965324	7965425	+	1
## 9552	protein_coding	chr1	7970894	7970963	+	1
## 9553	protein_coding	chr1	7970894	7970963	+	1
## 9554	protein_coding	chr1	7977652	7977738	+	1
## 9555	protein_coding	chr1	7977652	7977738	+	1
## 9556	protein_coding	chr1	7984894	7985281	+	1
## 9557	protein_coding	chr1	7984894	7985051	+	1
## 9558	protein_coding	chr1	7985052	7985054	+	1
## 9559	protein_coding	chr1	7961701	7961735	+	1
## 9560	protein_coding	chr1	7962763	7962785	+	1
## 9561	protein_coding	chr1	7985052	7985281	+	1
## 9562	protein_coding	chr1	7961711	7985505	+	1
## 9563	protein_coding	chr1	7961711	7961793	+	1
## 9564	protein_coding	chr1	7962763	7962875	+	1
## 9565	protein_coding	chr1	7962786	7962875	+	1
## 9566	protein_coding	chr1	7962786	7962788	+	1
## 9567	protein_coding	chr1	7965324	7965425	+	1
## 9568	protein_coding	chr1	7965324	7965425	+	1
## 9569	protein_coding	chr1	7969345	7969404	+	1
## 9570	protein_coding	chr1	7969345	7969404	+	1
## 9571	protein_coding	chr1	7970894	7970963	+	1
## 9572	protein_coding	chr1	7970894	7970963	+	1
## 9573	protein_coding	chr1	7977652	7977738	+	1
## 9574	protein_coding	chr1	7977652	7977738	+	1
## 9575	protein_coding	chr1	7984894	7985505	+	1
## 9576	protein_coding	chr1	7984894	7985051	+	1
## 9577	protein_coding	chr1	7985052	7985054	+	1
## 9578	protein_coding	chr1	7961711	7961793	+	1
## 9579	protein_coding	chr1	7962763	7962785	+	1
## 9580	protein_coding	chr1	7985052	7985505	+	1
## 9581	protein_coding	chr1	7961894	7985250	+	1
## 9582	protein_coding	chr1	7961894	7962081	+	1
## 9583	protein_coding	chr1	7962763	7962875	+	1
## 9584	protein_coding	chr1	7962786	7962875	+	1
## 9585	protein_coding	chr1	7962786	7962788	+	1
## 9586	protein_coding	chr1	7965324	7965425	+	1
## 9587	protein_coding	chr1	7965324	7965425	+	1
## 9588	protein_coding	chr1	7969345	7969404	+	1
## 9589	protein_coding	chr1	7969345	7969404	+	1
## 9590	protein_coding	chr1	7970894	7970963	+	1
## 9591	protein_coding	chr1	7970894	7970963	+	1
## 9592	protein_coding	chr1	7977652	7977738	+	1
## 9593	protein_coding	chr1	7977652	7977738	+	1
## 9594	protein_coding	chr1	7984894	7985250	+	1
## 9595	protein_coding	chr1	7984894	7985051	+	1
## 9596	protein_coding	chr1	7985052	7985054	+	1
## 9597	protein_coding	chr1	7961894	7962081	+	1
## 9598	protein_coding	chr1	7962763	7962785	+	1
## 9599	protein_coding	chr1	7985052	7985250	+	1
## 9600	protein_coding	chr1	7961969	7985111	+	1
## 9601	protein_coding	chr1	7961969	7962101	+	1

## 9602	protein_coding	chr1	7962763	7962875	+	1
## 9603	protein_coding	chr1	7962786	7962875	+	1
## 9604	protein_coding	chr1	7962786	7962788	+	1
## 9605	protein_coding	chr1	7965324	7965425	+	1
## 9606	protein_coding	chr1	7965324	7965425	+	1
## 9607	protein_coding	chr1	7969345	7969404	+	1
## 9608	protein_coding	chr1	7969345	7969404	+	1
## 9609	protein_coding	chr1	7970894	7970963	+	1
## 9610	protein_coding	chr1	7970894	7970963	+	1
## 9611	protein_coding	chr1	7977652	7977738	+	1
## 9612	protein_coding	chr1	7977652	7977738	+	1
## 9613	protein_coding	chr1	7984894	7985111	+	1
## 9614	protein_coding	chr1	7984894	7985051	+	1
## 9615	protein_coding	chr1	7985052	7985054	+	1
## 9616	protein_coding	chr1	7961969	7962101	+	1
## 9617	protein_coding	chr1	7962763	7962785	+	1
## 9618	protein_coding	chr1	7985052	7985111	+	1
## 9619	misc_RNA	chr1	7982881	7982983	-	0
## 9620	misc_RNA	chr1	7982881	7982983	-	0
## 9621	misc_RNA	chr1	7982881	7982983	-	0
## 9622	lncRNA	chr1	7991134	8005312	+	0
## 9623	lncRNA	chr1	7991134	8005312	+	0
## 9624	lncRNA	chr1	7991134	7991447	+	0
## 9625	lncRNA	chr1	7994547	7994664	+	0
## 9626	lncRNA	chr1	7996321	7996443	+	0
## 9627	lncRNA	chr1	8000088	8000185	+	0
## 9628	lncRNA	chr1	8000606	8000728	+	0
## 9629	lncRNA	chr1	8003988	8005312	+	0
## 9630	lncRNA	chr1	7999540	8002961	+	0
## 9631	lncRNA	chr1	7999540	8000728	+	0
## 9632	lncRNA	chr1	8001915	8002961	+	0
## 9633	lncRNA	chr1	7998187	7999934	-	0
## 9634	lncRNA	chr1	7998187	7999934	-	0
## 9635	lncRNA	chr1	7999073	7999934	-	0
## 9636	lncRNA	chr1	7998187	7998367	-	0
## 9637	protein_coding	chr1	8004404	8026309	-	1
## 9638	protein_coding	chr1	8004404	8026283	-	1
## 9639	protein_coding	chr1	8026158	8026283	-	1
## 9640	protein_coding	chr1	8015495	8015692	-	1
## 9641	protein_coding	chr1	8015495	8015619	-	1
## 9642	protein_coding	chr1	8015617	8015619	-	1
## 9643	protein_coding	chr1	8004404	8004558	-	1
## 9644	protein_coding	chr1	8004525	8004558	-	1
## 9645	protein_coding	chr1	8004522	8004524	-	1
## 9646	protein_coding	chr1	8026158	8026283	-	1
## 9647	protein_coding	chr1	8015620	8015692	-	1
## 9648	protein_coding	chr1	8004404	8004524	-	1
## 9649	protein_coding	chr1	8011727	8026309	-	1
## 9650	protein_coding	chr1	8026158	8026309	-	1
## 9651	protein_coding	chr1	8015495	8015692	-	1
## 9652	protein_coding	chr1	8015495	8015619	-	1
## 9653	protein_coding	chr1	8015617	8015619	-	1
## 9654	protein_coding	chr1	8015308	8015384	-	1
## 9655	protein_coding	chr1	8015308	8015384	-	1

## 9656	protein_coding	chr1	8011727	8014396	-	1
## 9657	protein_coding	chr1	8013213	8014396	-	1
## 9658	protein_coding	chr1	8013210	8013212	-	1
## 9659	protein_coding	chr1	8026158	8026309	-	1
## 9660	protein_coding	chr1	8015620	8015692	-	1
## 9661	protein_coding	chr1	8011727	8013212	-	1
## 9662	protein_coding	chr1	8013427	8015633	-	1
## 9663	protein_coding	chr1	8015495	8015633	-	1
## 9664	protein_coding	chr1	8015495	8015619	-	1
## 9665	protein_coding	chr1	8015617	8015619	-	1
## 9666	protein_coding	chr1	8013427	8015384	-	1
## 9667	protein_coding	chr1	8015273	8015384	-	1
## 9668	protein_coding	chr1	8015270	8015272	-	1
## 9669	protein_coding	chr1	8015620	8015633	-	1
## 9670	protein_coding	chr1	8013427	8015272	-	1
## 9671	protein_coding	chr1	8013739	8026296	-	1
## 9672	protein_coding	chr1	8026158	8026296	-	1
## 9673	protein_coding	chr1	8015495	8015692	-	1
## 9674	protein_coding	chr1	8015495	8015619	-	1
## 9675	protein_coding	chr1	8015617	8015619	-	1
## 9676	protein_coding	chr1	8013739	8014396	-	1
## 9677	protein_coding	chr1	8014300	8014396	-	1
## 9678	protein_coding	chr1	8014297	8014299	-	1
## 9679	protein_coding	chr1	8026158	8026296	-	1
## 9680	protein_coding	chr1	8015620	8015692	-	1
## 9681	protein_coding	chr1	8013739	8014299	-	1
## 9682	lncRNA	chr1	8026738	8122702	+	0
## 9683	lncRNA	chr1	8026738	8122702	+	0
## 9684	lncRNA	chr1	8026738	8027421	+	0
## 9685	lncRNA	chr1	8029227	8029357	+	0
## 9686	lncRNA	chr1	8121474	8122702	+	0
## 9687	processed_pseudogene	chr1	8057245	8058463	-	0
## 9688	processed_pseudogene	chr1	8057245	8058463	-	0
## 9689	processed_pseudogene	chr1	8058361	8058463	-	0
## 9690	processed_pseudogene	chr1	8057245	8057941	-	0
## 9691	processed_pseudogene	chr1	8189824	8192770	+	0
## 9692	processed_pseudogene	chr1	8189824	8192770	+	0
## 9693	processed_pseudogene	chr1	8189824	8190331	+	0
## 9694	processed_pseudogene	chr1	8191216	8191495	+	0
## 9695	processed_pseudogene	chr1	8192182	8192254	+	0
## 9696	processed_pseudogene	chr1	8192557	8192770	+	0
## 9697	lncRNA	chr1	8201518	8215210	+	1
## 9698	lncRNA	chr1	8201518	8215207	+	1
## 9699	lncRNA	chr1	8201518	8201568	+	1
## 9700	lncRNA	chr1	8202690	8202876	+	1
## 9701	lncRNA	chr1	8208667	8208873	+	1
## 9702	lncRNA	chr1	8210487	8210595	+	1
## 9703	lncRNA	chr1	8215079	8215207	+	1
## 9704	lncRNA	chr1	8208672	8215210	+	1
## 9705	lncRNA	chr1	8208672	8208873	+	1
## 9706	lncRNA	chr1	8210487	8210595	+	1
## 9707	lncRNA	chr1	8214625	8214678	+	1
## 9708	lncRNA	chr1	8215079	8215210	+	1
## 9709	snRNA	chr1	8206434	8206597	-	1

## 9710	snRNA	chr1	8206434	8206597	-	1
## 9711	snRNA	chr1	8206434	8206597	-	1
## 9712	lncRNA	chr1	8218190	8220529	-	0
## 9713	lncRNA	chr1	8218190	8220529	-	0
## 9714	lncRNA	chr1	8220397	8220529	-	0
## 9715	lncRNA	chr1	8218190	8218533	-	0
## 9716	snRNA	chr1	8292157	8292263	-	1
## 9717	snRNA	chr1	8292157	8292263	-	1
## 9718	snRNA	chr1	8292157	8292263	-	1
## 9719	protein_coding	chr1	8317826	8344167	+	1
## 9720	protein_coding	chr1	8317826	8344165	+	1
## 9721	protein_coding	chr1	8317826	8318186	+	1
## 9722	protein_coding	chr1	8318109	8318186	+	1
## 9723	protein_coding	chr1	8318109	8318111	+	1
## 9724	protein_coding	chr1	8324306	8324726	+	1
## 9725	protein_coding	chr1	8324306	8324726	+	1
## 9726	protein_coding	chr1	8325298	8325390	+	1
## 9727	protein_coding	chr1	8325298	8325390	+	1
## 9728	protein_coding	chr1	8325818	8326042	+	1
## 9729	protein_coding	chr1	8325818	8326042	+	1
## 9730	protein_coding	chr1	8330209	8330936	+	1
## 9731	protein_coding	chr1	8330209	8330936	+	1
## 9732	protein_coding	chr1	8335437	8335590	+	1
## 9733	protein_coding	chr1	8335437	8335590	+	1
## 9734	protein_coding	chr1	8337816	8337992	+	1
## 9735	protein_coding	chr1	8337816	8337992	+	1
## 9736	protein_coding	chr1	8339493	8339698	+	1
## 9737	protein_coding	chr1	8339493	8339698	+	1
## 9738	protein_coding	chr1	8343747	8344165	+	1
## 9739	protein_coding	chr1	8343747	8344010	+	1
## 9740	protein_coding	chr1	8344011	8344013	+	1
## 9741	protein_coding	chr1	8317826	8318108	+	1
## 9742	protein_coding	chr1	8344011	8344165	+	1
## 9743	protein_coding	chr1	8324330	8344167	+	1
## 9744	protein_coding	chr1	8324330	8324726	+	1
## 9745	protein_coding	chr1	8324330	8324726	+	1
## 9746	protein_coding	chr1	8324330	8324332	+	1
## 9747	protein_coding	chr1	8325298	8325390	+	1
## 9748	protein_coding	chr1	8325298	8325390	+	1
## 9749	protein_coding	chr1	8325818	8326042	+	1
## 9750	protein_coding	chr1	8325818	8326042	+	1
## 9751	protein_coding	chr1	8330209	8330936	+	1
## 9752	protein_coding	chr1	8330209	8330936	+	1
## 9753	protein_coding	chr1	8335437	8335590	+	1
## 9754	protein_coding	chr1	8335437	8335590	+	1
## 9755	protein_coding	chr1	8337816	8337992	+	1
## 9756	protein_coding	chr1	8337816	8337992	+	1
## 9757	protein_coding	chr1	8339493	8339698	+	1
## 9758	protein_coding	chr1	8339493	8339698	+	1
## 9759	protein_coding	chr1	8343747	8344167	+	1
## 9760	protein_coding	chr1	8343747	8344010	+	1
## 9761	protein_coding	chr1	8344011	8344013	+	1
## 9762	protein_coding	chr1	8344011	8344167	+	1
## 9763	misc_RNA	chr1	8328067	8328179	+	0

## 9764	misc_RNA	chr1	8328067	8328179	+	0
## 9765	misc_RNA	chr1	8328067	8328179	+	0
## 9766	protein_coding	chr1	8352397	8848921	-	1
## 9767	protein_coding	chr1	8352397	8817465	-	1
## 9768	protein_coding	chr1	8817160	8817465	-	1
## 9769	protein_coding	chr1	8792404	8792588	-	1
## 9770	protein_coding	chr1	8655973	8656441	-	1
## 9771	protein_coding	chr1	8655973	8656297	-	1
## 9772	protein_coding	chr1	8656295	8656297	-	1
## 9773	protein_coding	chr1	8624310	8624380	-	1
## 9774	protein_coding	chr1	8624310	8624380	-	1
## 9775	protein_coding	chr1	8614561	8614686	-	1
## 9776	protein_coding	chr1	8614561	8614686	-	1
## 9777	protein_coding	chr1	8557418	8557523	-	1
## 9778	protein_coding	chr1	8557418	8557523	-	1
## 9779	protein_coding	chr1	8556475	8556571	-	1
## 9780	protein_coding	chr1	8556475	8556571	-	1
## 9781	protein_coding	chr1	8541214	8541318	-	1
## 9782	protein_coding	chr1	8541214	8541318	-	1
## 9783	protein_coding	chr1	8508627	8508675	-	1
## 9784	protein_coding	chr1	8508627	8508675	-	1
## 9785	protein_coding	chr1	8497405	8497529	-	1
## 9786	protein_coding	chr1	8497405	8497529	-	1
## 9787	protein_coding	chr1	8495063	8495162	-	1
## 9788	protein_coding	chr1	8495063	8495162	-	1
## 9789	protein_coding	chr1	8465925	8466023	-	1
## 9790	protein_coding	chr1	8465925	8466023	-	1
## 9791	protein_coding	chr1	8422727	8422807	-	1
## 9792	protein_coding	chr1	8422727	8422807	-	1
## 9793	protein_coding	chr1	8365812	8365974	-	1
## 9794	protein_coding	chr1	8365812	8365974	-	1
## 9795	protein_coding	chr1	8364746	8364838	-	1
## 9796	protein_coding	chr1	8364746	8364838	-	1
## 9797	protein_coding	chr1	8364056	8364255	-	1
## 9798	protein_coding	chr1	8364056	8364255	-	1
## 9799	protein_coding	chr1	8362683	8362844	-	1
## 9800	protein_coding	chr1	8362683	8362844	-	1
## 9801	protein_coding	chr1	8361763	8361876	-	1
## 9802	protein_coding	chr1	8361763	8361876	-	1
## 9803	protein_coding	chr1	8360112	8361490	-	1
## 9804	protein_coding	chr1	8360112	8361490	-	1
## 9805	protein_coding	chr1	8359764	8359986	-	1
## 9806	protein_coding	chr1	8359764	8359986	-	1
## 9807	protein_coding	chr1	8358196	8358916	-	1
## 9808	protein_coding	chr1	8358196	8358916	-	1
## 9809	protein_coding	chr1	8356100	8356246	-	1
## 9810	protein_coding	chr1	8356100	8356246	-	1
## 9811	protein_coding	chr1	8355419	8355599	-	1
## 9812	protein_coding	chr1	8355419	8355599	-	1
## 9813	protein_coding	chr1	8352397	8355120	-	1
## 9814	protein_coding	chr1	8355090	8355120	-	1
## 9815	protein_coding	chr1	8355087	8355089	-	1
## 9816	protein_coding	chr1	8817160	8817465	-	1
## 9817	protein_coding	chr1	8792404	8792588	-	1

## 9818	protein_coding	chr1	8656298	8656441	-	1
## 9819	protein_coding	chr1	8352397	8355089	-	1
## 9820	protein_coding	chr1	8352404	8817640	-	1
## 9821	protein_coding	chr1	8817160	8817640	-	1
## 9822	protein_coding	chr1	8655973	8656441	-	1
## 9823	protein_coding	chr1	8655973	8656297	-	1
## 9824	protein_coding	chr1	8656295	8656297	-	1
## 9825	protein_coding	chr1	8624310	8624380	-	1
## 9826	protein_coding	chr1	8624310	8624380	-	1
## 9827	protein_coding	chr1	8614561	8614686	-	1
## 9828	protein_coding	chr1	8614561	8614686	-	1
## 9829	protein_coding	chr1	8557418	8557523	-	1
## 9830	protein_coding	chr1	8557418	8557523	-	1
## 9831	protein_coding	chr1	8556475	8556571	-	1
## 9832	protein_coding	chr1	8556475	8556571	-	1
## 9833	protein_coding	chr1	8541214	8541318	-	1
## 9834	protein_coding	chr1	8541214	8541318	-	1
## 9835	protein_coding	chr1	8508627	8508675	-	1
## 9836	protein_coding	chr1	8508627	8508675	-	1
## 9837	protein_coding	chr1	8497405	8497529	-	1
## 9838	protein_coding	chr1	8497405	8497529	-	1
## 9839	protein_coding	chr1	8495063	8495162	-	1
## 9840	protein_coding	chr1	8495063	8495162	-	1
## 9841	protein_coding	chr1	8465925	8466023	-	1
## 9842	protein_coding	chr1	8465925	8466023	-	1
## 9843	protein_coding	chr1	8422727	8422807	-	1
## 9844	protein_coding	chr1	8422727	8422807	-	1
## 9845	protein_coding	chr1	8365812	8365974	-	1
## 9846	protein_coding	chr1	8365812	8365974	-	1
## 9847	protein_coding	chr1	8364746	8364838	-	1
## 9848	protein_coding	chr1	8364746	8364838	-	1
## 9849	protein_coding	chr1	8364056	8364255	-	1
## 9850	protein_coding	chr1	8364056	8364255	-	1
## 9851	protein_coding	chr1	8362683	8362844	-	1
## 9852	protein_coding	chr1	8362683	8362844	-	1
## 9853	protein_coding	chr1	8361763	8361876	-	1
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## 9897	0
## 9898	0
## 9899	0
## 9900	0
## 9901	0
## 9902	0
## 9903	0
## 9904	0
## 9905	0
## 9906	0
## 9907	0
## 9908	0
## 9909	0
## 9910	0
## 9911	0
## 9912	0
## 9913	0
## 9914	0
## 9915	0

## 9916	0
## 9917	0
## 9918	0
## 9919	0
## 9920	0
## 9921	0
## 9922	0
## 9923	0
## 9924	0
## 9925	0
## 9926	0
## 9927	0
## 9928	0
## 9929	0
## 9930	0
## 9931	0
## 9932	0
## 9933	0
## 9934	0
## 9935	0
## 9936	0
## 9937	0
## 9938	0
## 9939	0
## 9940	0
## 9941	0
## 9942	0
## 9943	0
## 9944	0
## 9945	1
## 9946	1
## 9947	1
## 9948	1
## 9949	1
## 9950	1
## 9951	1
## 9952	1
## 9953	1
## 9954	1
## 9955	1
## 9956	1
## 9957	1
## 9958	1
## 9959	1
## 9960	1
## 9961	1
## 9962	1
## 9963	1
## 9964	1
## 9965	1
## 9966	1
## 9967	1
## 9968	1
## 9969	1

```
## 9970      1
## 9971      1
## 9972      1
## 9973      1
## 9974      1
## 9975      1
## 9976      0
## 9977      0
## 9978      0
## 9979      0
## 9980      0
## 9981      0
## 9982      0
## 9983      0
## 9984      0
## 9985      0
## 9986      0
## 9987      0
## 9988      0
## 9989      0
## 9990      0
## 9991      0
## 9992      0
## 9993      0
## 9994      0
## 9995      0
## 9996      0
## 9997      0
## 9998      0
## 9999      0
## [ reached 'max' / getOption("max.print") -- omitted 1746503 rows ]
```

2. Please count the number of hgnc by gene biotypes.

```
my_4%>%
  group_by(gene_type)%>%
  filter(isHgnc==1)%>%
  count()

## # A tibble: 36 x 2
## # Groups:   gene_type [36]
##   gene_type      n
##   <chr>      <int>
## 1 IG_C_gene    176
## 2 IG_C_pseudogene 33
## 3 IG_D_gene   152
## 4 IG_J_gene    76
## 5 IG_J_pseudogene 9
## 6 IG_V_gene   1101
## 7 IG_V_pseudogene 653
## 8 lncRNA     51105
## 9 miRNA      5568
## 10 misc_RNA   3099
## # ... with 26 more rows
```

- Please count the number of hgnc by level. Please note that level in this question is not TSL. Please find information in this link: 1 (verified loci), 2 (manually annotated loci), 3 (automatically annotated loci).

```
my_4%>%
  group_by(d_r$level)%>%
  filter(isHgnc==1)%>%
  count
```

```
## # A tibble: 3 x 2
## # Groups:   d_r$level [3]
##   'd_r$level'      n
##   <chr>          <int>
## 1 1             107054
## 2 2             1279964
## 3 3             237265
```

3.5. Transcripts in the GENCODE

- Which gene has the largest number of transcripts?

```
my_1%>%
  ungroup()%>%
  summarise(max=gene_id[which.max(n)])
```

```
## # A tibble: 1 x 1
##   max
##   <chr>
## 1 ENSG00000109339.22
```

- Please calculate the quantiles (0%, 25%, 50%, 75%, 100%) of the gene length for protein coding genes and long noncoding genes.

```
d_r%>%
  filter(gene_type=="lncRNA")%>%
  summarise(quantile(width,seq(0,1,0.25)))
```

```
##   quantile(width, seq(0, 1, 0.25))
## 1                               1
## 2                             126
## 3                             339
## 4                             2658
## 5                            1375317
```

```
d_r%>%
  filter(gene_type=="protein_coding")%>%
  summarise(quantile(width,seq(0,1,0.25)))
```

```
##   quantile(width, seq(0, 1, 0.25))
## 1                               1
```

```
## 2          76
## 3         123
## 4         193
## 5        2473537
```

3. Please count the number of transcripts by chromosomes.

```
d_r%>%
  filter(type=="transcript")%>%
  group_by(seqnames)%>%
  count
```

```
## # A tibble: 25 x 2
## # Groups:   seqnames [25]
##   seqnames      n
##   <fct>    <int>
## 1 chr1      9827
## 2 chr2      7432
## 3 chr3      6157
## 4 chr4      4662
## 5 chr5      5203
## 6 chr6      5455
## 7 chr7      5292
## 8 chr8      4350
## 9 chr9      3949
## 10 chr10     4157
## # ... with 15 more rows
```

3.6. Autosomal vs. Sex chromosomes.

1. Please calculate the number of genes per chromosome.

```
d_r%>%
  filter(type=="gene")%>%
  group_by(seqnames)%>%
  count
```

```
## # A tibble: 25 x 2
## # Groups:   seqnames [25]
##   seqnames      n
##   <fct>    <int>
## 1 chr1      5471
## 2 chr2      4196
## 3 chr3      3185
## 4 chr4      2651
## 5 chr5      2983
## 6 chr6      3059
## 7 chr7      3014
## 8 chr8      2482
## 9 chr9      2327
## 10 chr10     2332
## # ... with 15 more rows
```

2. Please compare the number of genes between autosomal and sex chromosome (Mean, Median).

```
d_r%>%
  filter(seqnames%in%c("chrX","chrY","chrM")==FALSE&type=="gene")%>%
  group_by(seqnames)%>%
  count()%>%
  ungroup%>%
  summarise(Mean=mean(n),Median=median(n))
```

```
## # A tibble: 1 x 2
##   Mean Median
##   <dbl> <dbl>
## 1 2617. 2604.
```

```
d_r%>%
  filter(seqnames%in%c("chrX","chrY")&type=="gene")%>%
  group_by(seqnames)%>%
  count()%>%
  ungroup%>%
  summarise(Mean=mean(n),Median=median(n))
```

```
## # A tibble: 1 x 2
##   Mean Median
##   <dbl> <dbl>
## 1 1494. 1494.
```

3. Please divide the genes into groups 'protein coding' and 'long noncoding', and then compare the number of genes in each chromosomes within groups.

```
d_r%>%
  filter(gene_type%in%c("protein_coding","lncRNA") & type=="gene")%>%
  group_by(gene_type,seqnames)%>%
  count
```

```
## # A tibble: 49 x 3
## # Groups:   gene_type, seqnames [49]
##   gene_type seqnames      n
##   <chr>      <fct>    <int>
## 1 lncRNA     chr1      1416
## 2 lncRNA     chr2      1241
## 3 lncRNA     chr3       861
## 4 lncRNA     chr4       790
## 5 lncRNA     chr5       950
## 6 lncRNA     chr6       826
## 7 lncRNA     chr7       720
## 8 lncRNA     chr8       831
## 9 lncRNA     chr9       555
## 10 lncRNA    chr10      695
## # ... with 39 more rows
```