

Genomes

Genome Browser

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View

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About Us

UCSC Genome Browser on Human Dec. 2013 (GRCh38/hg38) Assembly

move <<< << < > >> >>> zoom in 1.5x 3x 10x base zoom out 1.5x 3x 10x 100x

multi-region chr3:52,268,278-52,268,361 84 bp. enter position, gene symbol, HGVS or search terms go

chr3 (p21.2) 3p24.3 21.31 14.2 14.1 p13 12.3 q23 3q24 q26.1 q28 3q29

Scale chr3: 52,268,285| 52,268,290| 52,268,295| 52,268,300| 52,268,305| 52,268,310| 52,268,315| 52,268,320| 52,268,325| 52,268,330| 52,268,335| 52,268,340| 52,268,345| hg38

T G G C A A G G C A G T G G C C T G T A C A G T T A T C T C C T G T A C C G G T G G T G T A T C A T A G A C C C T C A A C T G T A C

Reference Assembly Fix Patch Sequence Alignments

Reference Assembly Alternate Haplotype Sequence Alignments

GENCODE V36 (2 items filtered)

NCBI RefSeq genes, curated subset (NM_#, NR_#, NP_# or YP_#) - Annotation Release NCBI Homo sapiens Updated Annotation Release 109.20

OMIM Allelic Variant Phenotypes

Gene Expression in 54 tissues from GTEx RNA-seq of 17382 samples, 948 donors (V8, Aug 2019)

H3K27Ac Mark (Often Found Near Regulatory Elements) on 7 cell lines from ENCODE

100 vertebrates Basewise Conservation by PhyloP

Multiz Alignments of 100 Vertebrates

Repeating Elements by RepeatMasker

Alt Haplotypes

WDR82

MIRLET70

WDR82/NM_025222.4

MIRLET70/NR_029668.1

OMIM Alleles

Layered H3K27Ac

Cons 100 Verts

Alt Haplotypes

RepeatMasker

Click on a feature for details. Click+shift+drag to zoom in. Click side bars for track options. Drag side bars or labels up or down to tracks. Drag tracks left or right to new position. Press "?" for keyboard shortcuts.

track search default tracks default order hide all add custom tracks track hubs configure reverse resize refresh

collapse all expand all

Use drop-down controls below and press refresh to alter tracks displayed. Tracks with lots of items will automatically be displayed in more compact modes.

Mapping and Sequencing

Base Position

dense

P12 Fix Patches

pack

P12 Alt Haplotypes

dense

P12 Assembly

hide

Centromeres

hide

P12 Chromosome Band

hide

Clone Ends

hide

Exome Probesets

hide

P12 FISH Clones

hide

P12 Gap

hide

P12 GC Percent

hide

GRC Incident

hide

Hg19 Diff

hide

Hg19 Mapping

hide

P12 INSDC

hide

P12 RefSeq Acc

hide

Restr Enzymes

hide

Scaffolds

hide

Short Match

hide

STS Markers

hide

GENCODE V36

pack

NCBI RefSeq

pack

P12 AII GENCODE...

hide

P12 AUGUSTUS

hide

CCDS

hide

CRISPR Targets

hide

Geneid Genes

hide

P12 Genscan Genes

hide

P12 IKMC Genes Mapped

hide

LRG Transcripts

hide

MANE select v0.92

hide

P12 MGC Genes

hide

Non-coding RNA...

hide

Old UCSC Genes

hide

P12 ORFeome Clones

hide

P12 Other RefSeq

hide

P12 Pfam in UCSC Gene

hide

RetroGenes V9

hide

SGP Genes

hide

SIB Genes

hide

TransMap V5...

hide

P12 UCSC Alt Events

hide

UniProt

hide

Phenotype and Literature

OMIM Alleles

dense

CADD...

hide

Cancer Gene Expr...

hide

ClinGen

hide

Deprecated ClinGen CNVs

hide

ClinVar Variants

hide

P12 Coriell CNVs

hide

COSMIC Regions

hide

Development Delay

hide

Gene Interactions

hide

GeneReviews

hide

GWAS Catalog

hide

genome.ucsc.edu/cgi-bin/hgTracks?db=hg38&lastVirtModeType=default&lastVirtModeExtraState=&virtModeType=default&virtMode=0&nonVirtPo... 1/2

Updated

HGMD

hide

LOVD Variants

hide

OMIM Cyto Loci

hide

OMIM Genes

hide

19 REVEL

hide

SNPedia

hide

TCGA Pan-Cancer

hide

UniProt Variants

hide

Variants in Papers...

hide

COVID-19

refresh

COVID GWAS v4

hide

COVID GWAS v3

hide

Rare Harmful Vars

hide

mRNA and EST

refresh

P12 Human ESTs

hide

P12 Human mRNAs

hide

P12 Other ESTs

hide

P12 Other mRNAs

hide

SIB Alt-Splicing

hide

P12 Spliced ESTs

hide

Expression

refresh

GTEX Gene V8

pack

Affy GNF1H

hide

Affy U133

hide

Affy U95

hide

EPDnew Promoters

hide

GNF Atlas 2

hide

19 P12 GTEX Gene

hide

GTEX Transcript

hide

GWIPS-viz Riboseq

hide

miRNA Tissue Atlas

hide

Regulation

refresh

ENCODE cCREs

dense

P12 ENCODE Regulation...

show

P12 CpG Islands...

hide

GeneHancer

hide

Hi-C and Micro-C

hide

ORegAnno

hide

RefSeq Func Elems

hide

Comparative Genomics

refresh

Conservation

full

Cons 30 Primates

hide

Primate Chain/Net

hide

Placental Chain/Net

hide

Vertebrate Chain/Net

hide

Variation

refresh

dbSNP 153

pack

All SNPs(141)

hide

All SNPs(142)

hide

Common SNPs(142)

hide

Common SNPs(144)

hide

Flagged SNPs(142)

hide

Flagged SNPs(144)

hide

Mult. SNPs(142)

hide

Mult. SNPs(144)

hide

1000 Genomes Trios

hide

1000G Ph3 Vars

hide

All SNPs(144)

hide

All SNPs(146)

hide

All SNPs(147)

hide

All SNPs(150)

hide

All SNPs(151)

hide

Common SNPs(141)

hide

Common SNPs(146)

hide

Common SNPs(147)

hide

Common SNPs(150)

hide

Common SNPs(151)

hide

dbVar Common Struct Var...

hide

DGV Struct Var

hide

Flagged SNPs(141)

hide

Flagged SNPs(146)

hide

Flagged SNPs(147)

hide

Flagged SNPs(150)

hide

Flagged SNPs(151)

hide

Genome In a Bottle

hide

gnomAD Variants...

hide

Mult. SNPs(141)

hide

Mult. SNPs(146)

hide

Mult. SNPs(147)

hide

Mult. SNPs(150)

hide

Mult. SNPs(151)

hide

Platinum Genomes

hide

Repeats

refresh

P12 RepeatMasker

dense

Interrupted Rpts

hide

P12 Simple Repeats

hide

P12 WM + SDust

hide

Microsatellite

hide

RepeatMasker Viz.

hide

Segmental Dups

hide

Self Chain

hide

refresh