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**ExportView** 

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BioMart

BioMart

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Archive!

### **Ensembl Views**

AlianSliceView: pairwise or multiple genomic alignment for a genomic region

AlignView: alignment for a set of nucleotide or protein sequences

**BLASTView**: do a BLAST or SSAHA sequence similarity search

**ContigView**: genome annotation for a 1 bb -1Mb region

CytoView: genome annotation for a 200 kb - 50 Mb region

**DASConfView**: upload your data to the Ensembl DAS server or add vour own DAS server

DotterView: dot plot for a conserved block

DomainView: Ensembl genes containing a given InterPro domain

ExonView: exon, intron and flanking sequence and supporting evidence for a transcript

**ExportView**: export sequence and/or annotation for a feature or region

FamilyView: information for a protein family FastaView: sequence and associated details for feature external to the Ensembl core databases FeatureView: locations to which a given feature (e.g. microarray probeset, mRNA, protein) has been mapped

GeneRegulationView: regulatory factors for a aene

GeneSegAlignView: pairwise or multiple alignment of genomic sequence for a gene GeneSeqView: genomic sequence for a gene

GeneSNPView: SNPs for a gene

GeneSpliceView: alternative splicing for a gene GeneTreeView: gene tree with orthologues and paralogues for a gene

GeneView: information for a gene

GOView: information for a GO term, including hierarchy

HelpView: help information for an Ensembl view

HistoryView: retrieve the history for a batch of

Ensembl stable IDs

IDHistoryView: history for an Ensembl stable ID

KarvoView: annotate a chromosome or

karvotype with your own data

LDTableView: LD values between SNPs in table format

LDView: LD values between SNPs, including the possibility of dumping for upload into Haploview software

MapView: explore a chromosome MarkerView: information for a marker MartView: data mine with BioMart

MultiContigView: simultaneous display of genome annotation for multiple species ProtView: information for a protein, including

protein sequence

SearchView: search in Ensembl

SequenceAlignView: alignment of sequences of

different individuals / strains **SNPView**: information for a SNP

SyntenyView: syntenic regions between species

pairs

TranscriptSNPView: comparison of SNPs in individuals / strains / populations for a transcript TransView: information for a transcript, including spliced transcript sequence

## **Questions or Problems?**

Contact helpdesk@ensembl.org

**Ensembl Outreach Team European Bioinformatics Institute** Wellcome Trust Genome Campus Hinxton, Cambridge, CB10 1SD **United Kingdom** 

## **Glossary of Terms**

**Assembly**: the whole of sequenced pieces of DNA of an organism put back together to create a representation of the original chromosomes from which the DNA originated

**BLAST**: Basic Local Alignment Search Tool, a program that finds sequence similarity

CDS: coding sequence

**Contig:** a contiguous stretch of DNA sequence without gaps that has been assembled based on direct sequencing information

**DAS**: Distributed Annotation System, a communication protocol used to exchange biological annotations

**EST**: expressed sequence tag

**Genebuild**: the process according to which Ensembl gene predictions are created and annotated

**GENSCAN**: *ab initio* gene prediction program **GO term**: Gene Ontology term; the Gene Ontology Consortium produces an organised hierarchy of terms, used to describe biological processes, cellular components, and molecular functions (see also 'Databases & Websites)

**Havana**: Human And Vertebrate Analysis and Annotation; the Havana team is part of the Vega consortium (see 'Databases and websites') **Manual annotation**: annotation of nucleotide or

protein sequences by a human being

**NCBI**: National Center for Biotechnology Information

**SNP**: single nucleotide polymorphism

**SSAHA**: Sequence Search and Alignment by Hashing Algorithm, a program that finds sequence similarity

UCSC: University of California Santa Cruz

**UTR**: untranslated region

### **Databases & Websites**

CCDS: Consensus CDS database (http://www.ncbi.nlm.nih.gov/CCDS/) dbSNP: SNP repository at the NCBI

(http://www.ncbi.nlm.nih.gov/projects/SNP/) **DAS registration server**: registry of available

DAS sources

(http://www.dasregistry.org)

EMBL-Bank/GenBank/DDBJ: nucleotide

sequence repositories

(http://www.ebi.ac.uk/embl/)

**GO**: Gene Ontology database (http://www.ebi.ac.uk/GO/)

**HapMap**: multi-country effort to identify and catalog genetic similarities and differences in

human beings

(http://www.hapmap.org/)

InterPro: database of protein families, domains

and functional sites

(http://www.ebi.ac.uk/interpro/)

NCBI Map Viewer: genome browser of the NCBI

(http://www.ncbi.nlm.nih.gov/mapview/)

**RefSeq**: partially manually curated protein and nucleotide sequence database at the NCBI

(http://www.ncbi.nlm.nih.gov/RefSeq/)

**UCSC Genome Browser**: genome browser of

the UCSC

(http://genome.ucsc.edu/)

UniProt/Swiss-Prot: manually curated protein

sequence database

(http://www.ebi.ac.uk/swissprot/)

**UniProt/TrEMBL**: computer-annotated protein

sequence database

(http://www.ebi.ac.uk/trembl/)

**Vega**: Vertebrate Genome Annotation database, containing manually annotated vertebrate

genome sequence

(http://vega.sanger.ac.uk/)

# Quick Reference Guide to the



# **Ensembl Genome Browser**

