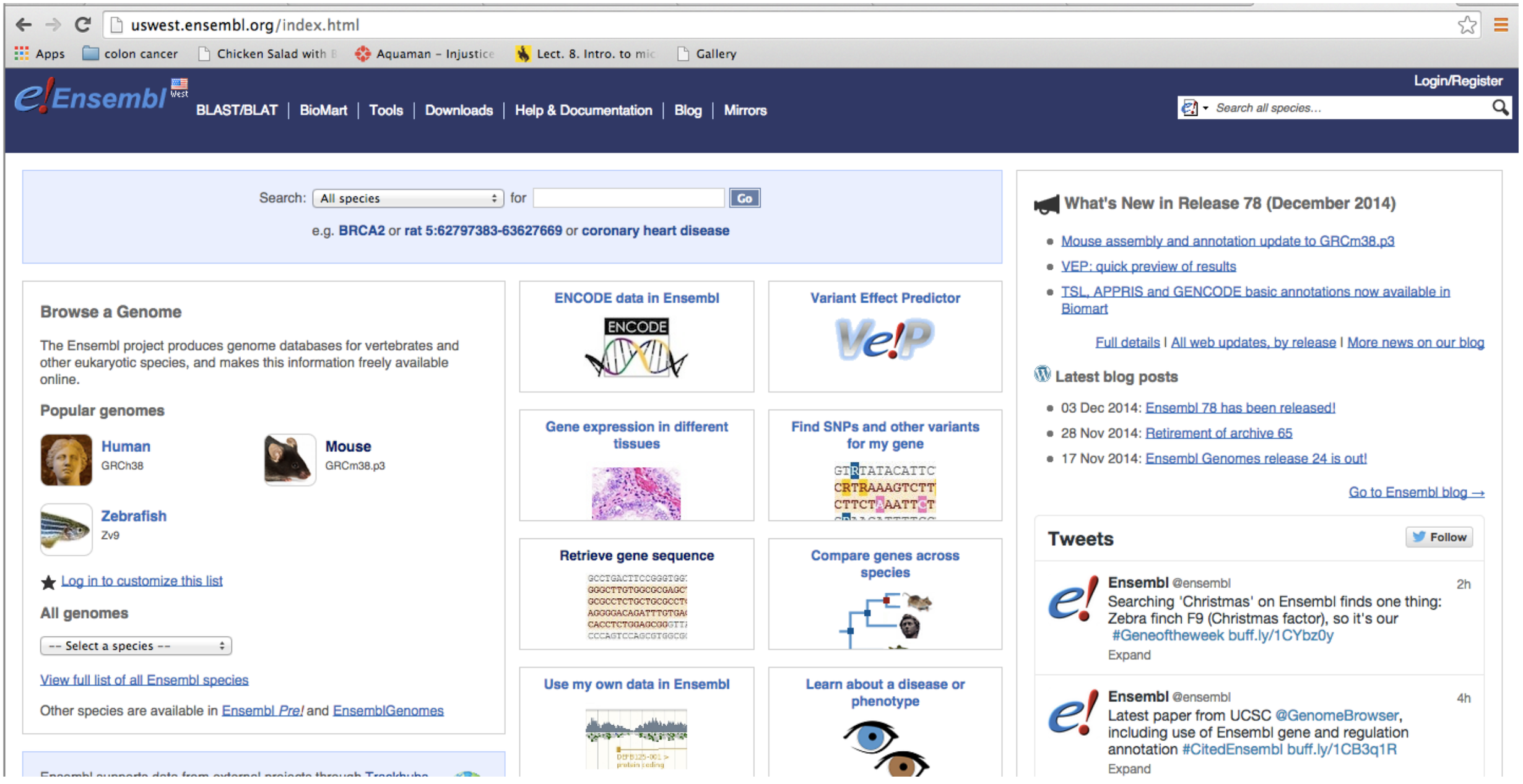
Ensembl Homepage



drop down menu has more options for a specific search

uswest.ensembl.org/index.html

Apps | colon cancer | Chicken Salad with B | Aquaman – Injustice | Lect. 8. Intro. to mic | Gallery

e!Ensembl West | BLAST/BLAT | BioMart | Tools | Downloads | Help & Documentation | Mirrors | Login/Register | Search all species...

Search: All species for Go

e.g. BRCA2 or rat 5:62797383-63627669 or coronary heart disease

Browse a Genome

The Ensembl project produces genome databases for vertebrates and other eukaryotic species, and makes this information freely available online.

Popular genomes

Human GRCh38

Mouse GRCm38.p3

Zebrafish Zv9

Log in to customize this list

All genomes

-- Select a species --

View full list of all Ensembl species

Other species are available in Ensembl *Pre!* and EnsemblGenomes

Ensembl supports data from external projects through TrackHubs

ENCODE data in Ensembl

Variant Effect Predictor

Gene expression in different tissues

Find SNPs and other variants for my gene

Retrieve gene sequence

Compare genes across species

Use my own data in Ensembl

Learn about a disease or phenotype

What's New in Release 78 (December 2014)

- Mouse assembly and annotation update to GRCm38.p3
- VEP: quick preview of results
- TSL, APPRIS and GENCODE basic annotations now available in Biomart

Full details | All web updates, by release | More news on our blog

Latest blog posts

- 03 Dec 2014: Ensembl 78 has been released!
- 28 Nov 2014: Retirement of archive 65
- 17 Nov 2014: Ensembl Genomes release 24 is out!

Go to Ensembl blog →

Tweets Follow

Ensembl @ensembl 2h
Searching 'Christmas' on Ensembl finds one thing: Zebra finch F9 (Christmas factor), so it's our #Geneoftheweek buff.ly/1CYbz0y
Expand

Ensembl @ensembl 4h
Latest paper from UCSC @GenomeBrowser, including use of Ensembl gene and regulation annotation #CitedEnsembl buff.ly/1C...3q1R
Expand

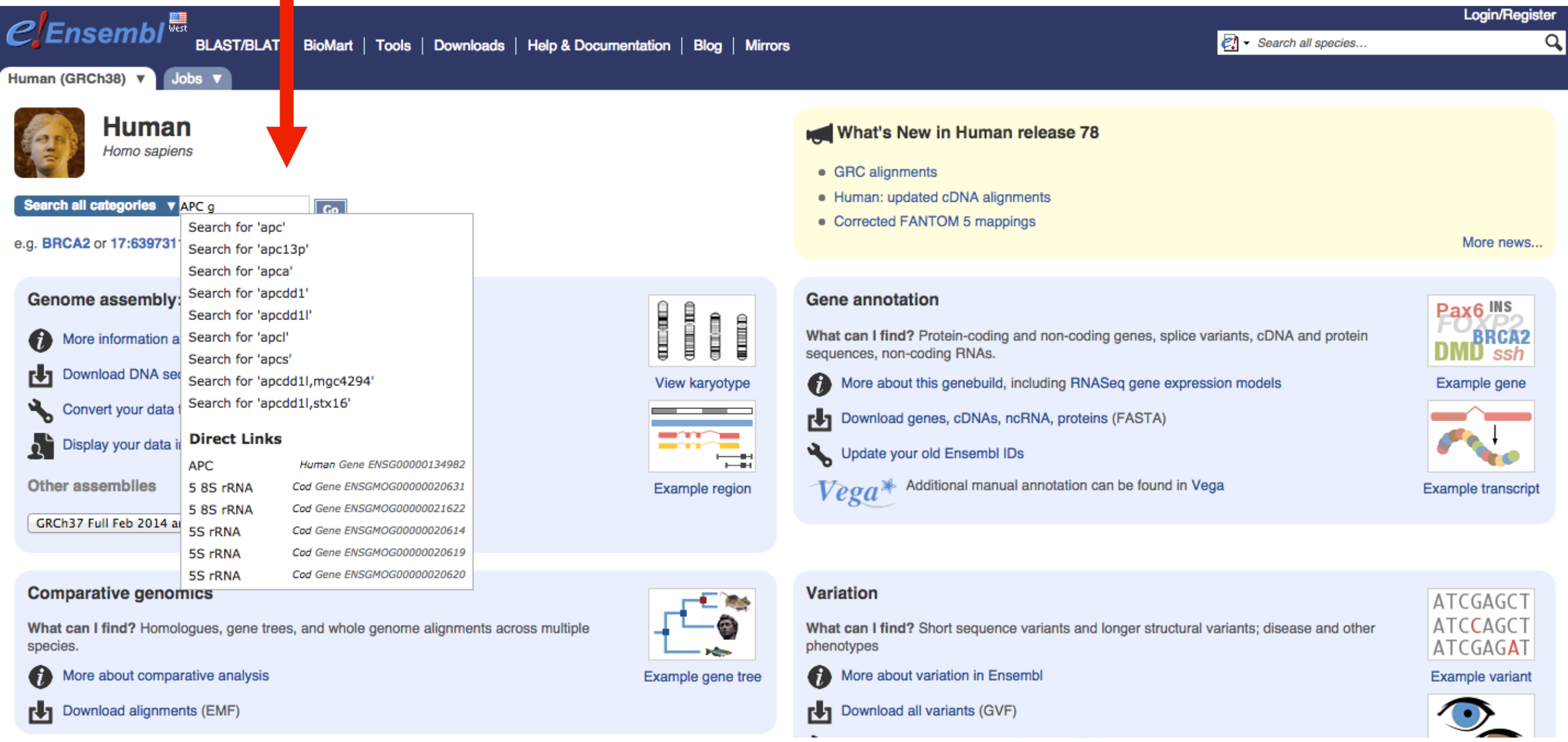
- ✓ All species
- Help and Documentation
- ---
- Favourite species
  - Human
  - Mouse
  - Zebrafish
- ---
- Alpaca
- Amazon molly
- Anole lizard
- Armadillo
- Bushbaby
- C.intestinalis
- C.savignyi
- Caenorhabditis elegans
- Cat
- Cave fish
- Chicken
- Chimpanzee
- Chinese softshell turtle
- Cod
- Coelacanth
- Cow
- Dog
- Dolphin
- Duck
- Elephant
- Ferret
- Flycatcher
- Fruitfly
- Fugu
- Gibbon
- Gorilla
- Guinea Pig
- Hedgehog
- Horse
- Human
- Hyrax
- Kangaroo rat
- Lamprey
- Lesser hedgehog tenrec
- Macaque
- Marmoset
- Medaka
- Megabat
- Microbat
- Mouse
- Mouse Lemur
- Olive baboon

Search in all species

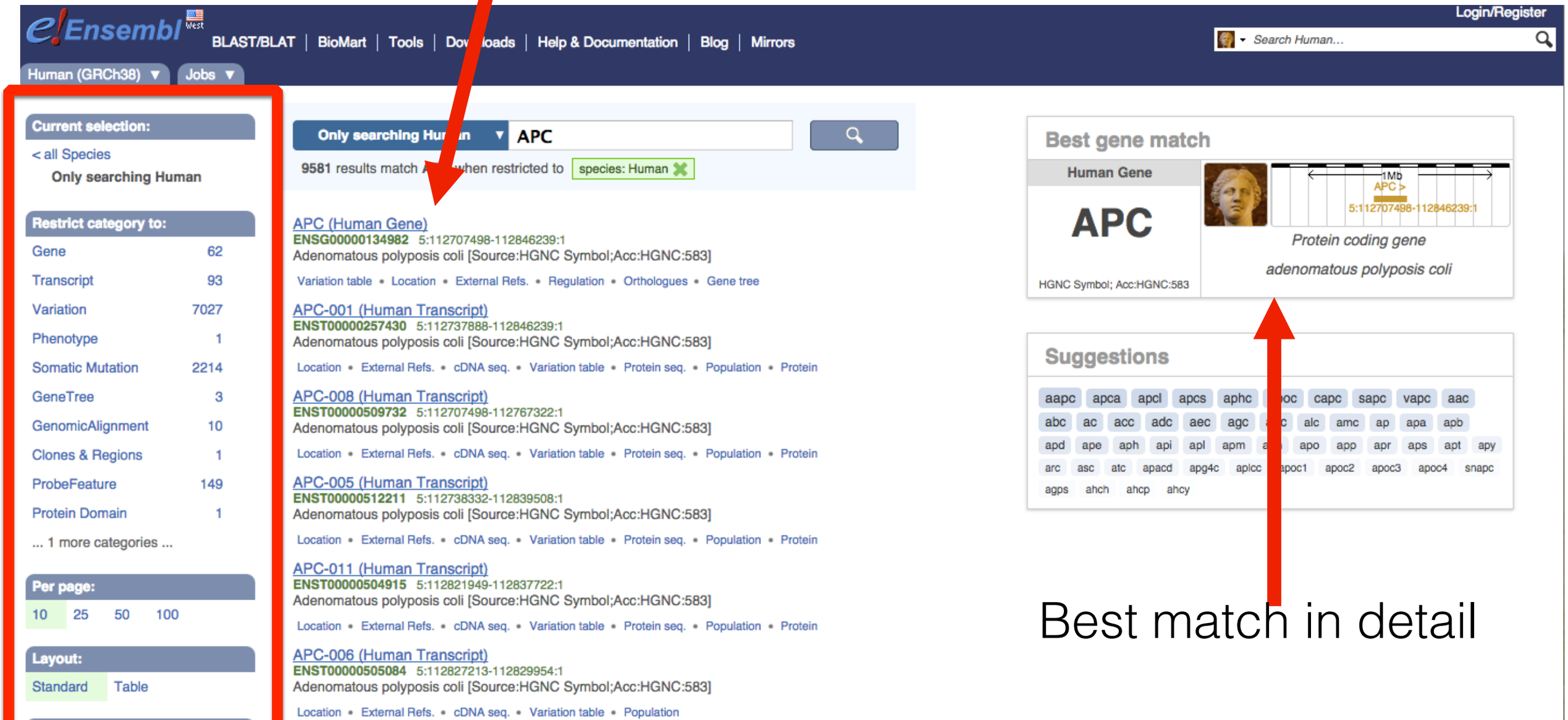
Browse/download genome of specific species

Species Homepage: e.g Human

You can search for a gene, region, probeset or disease. in any species' home page



List of results



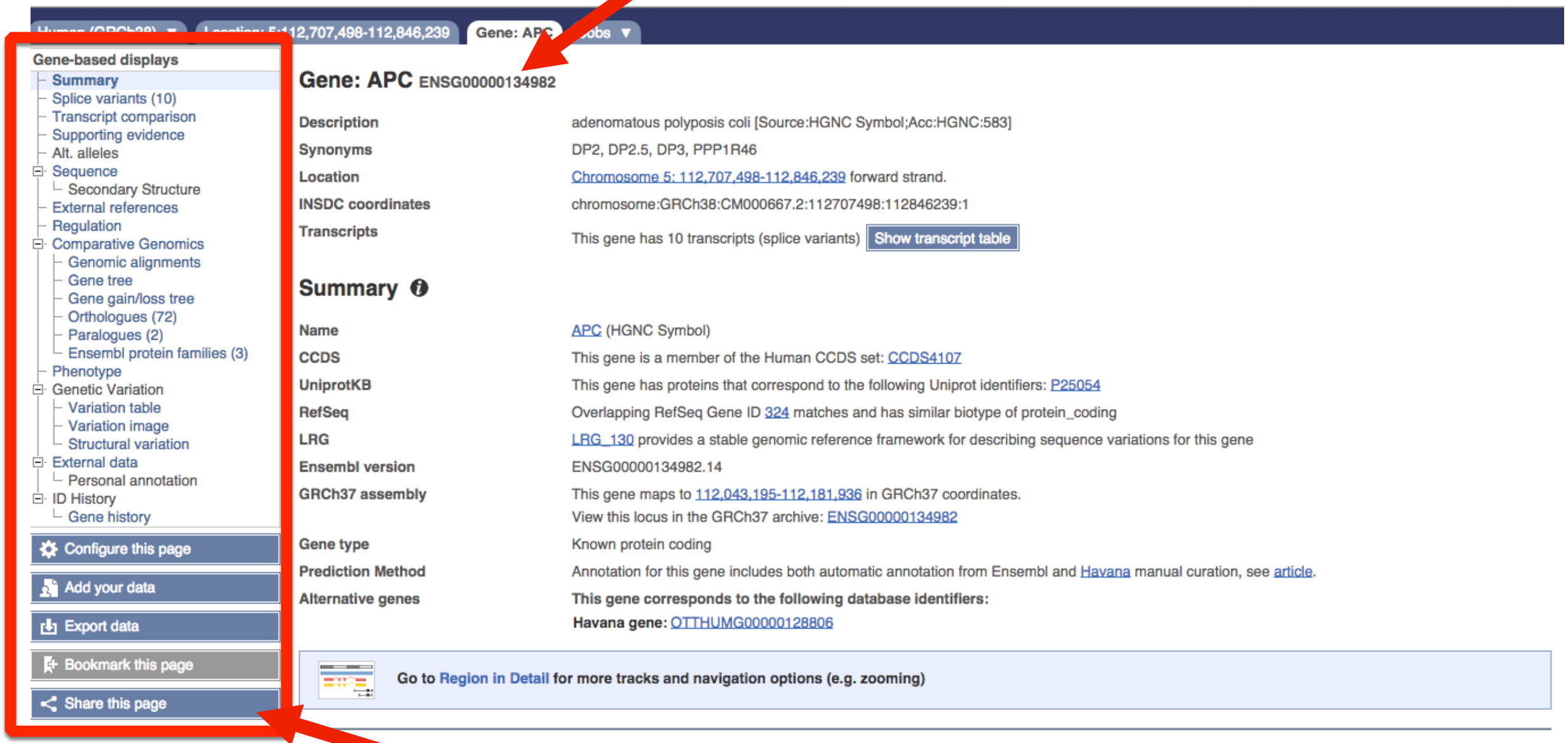
Best match in detail

You can filter search results using categories on the left hand side.

Gene Summary Page

Ensembl ID: stable even if updated

ENSG = Gene
ENST = Transcript
ENSP = protein
ENSE = exon
ENSR = regulatory feature
ENSFM= protein families

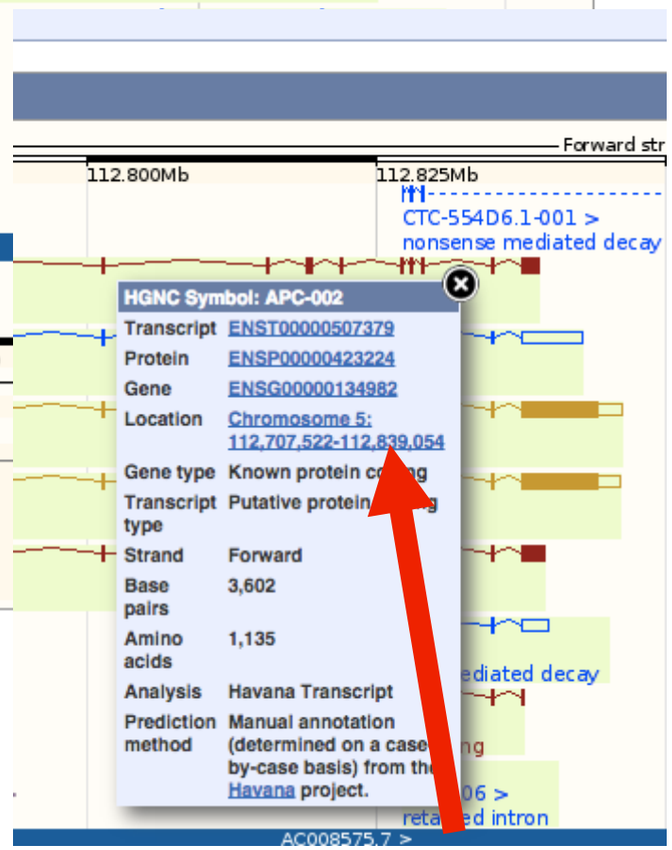


Use to customize what you see

Gene Summary Page (scroll down)

Hover to see ID and more information, click to go to specific page with more details

blue contig line:
Above = forward strand
below = reverse strand



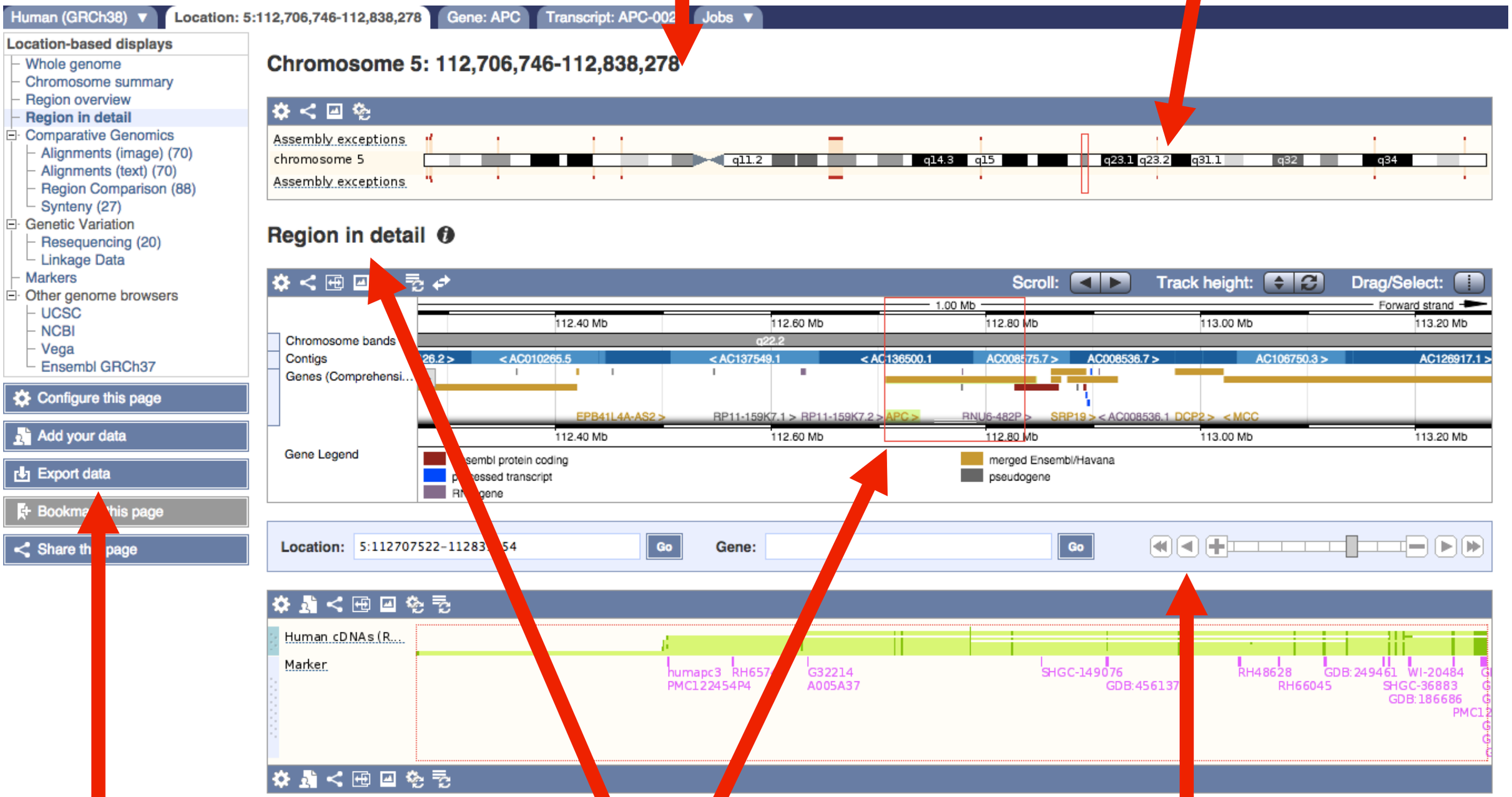
Boxes are exons & lines are introns. Filled boxes are coding sequences, unfilled represent UTRs (non coding sequence)

click on location for sequence

Gene Location

Location of this gene

Chromosome view:
click on location to zoom in and out



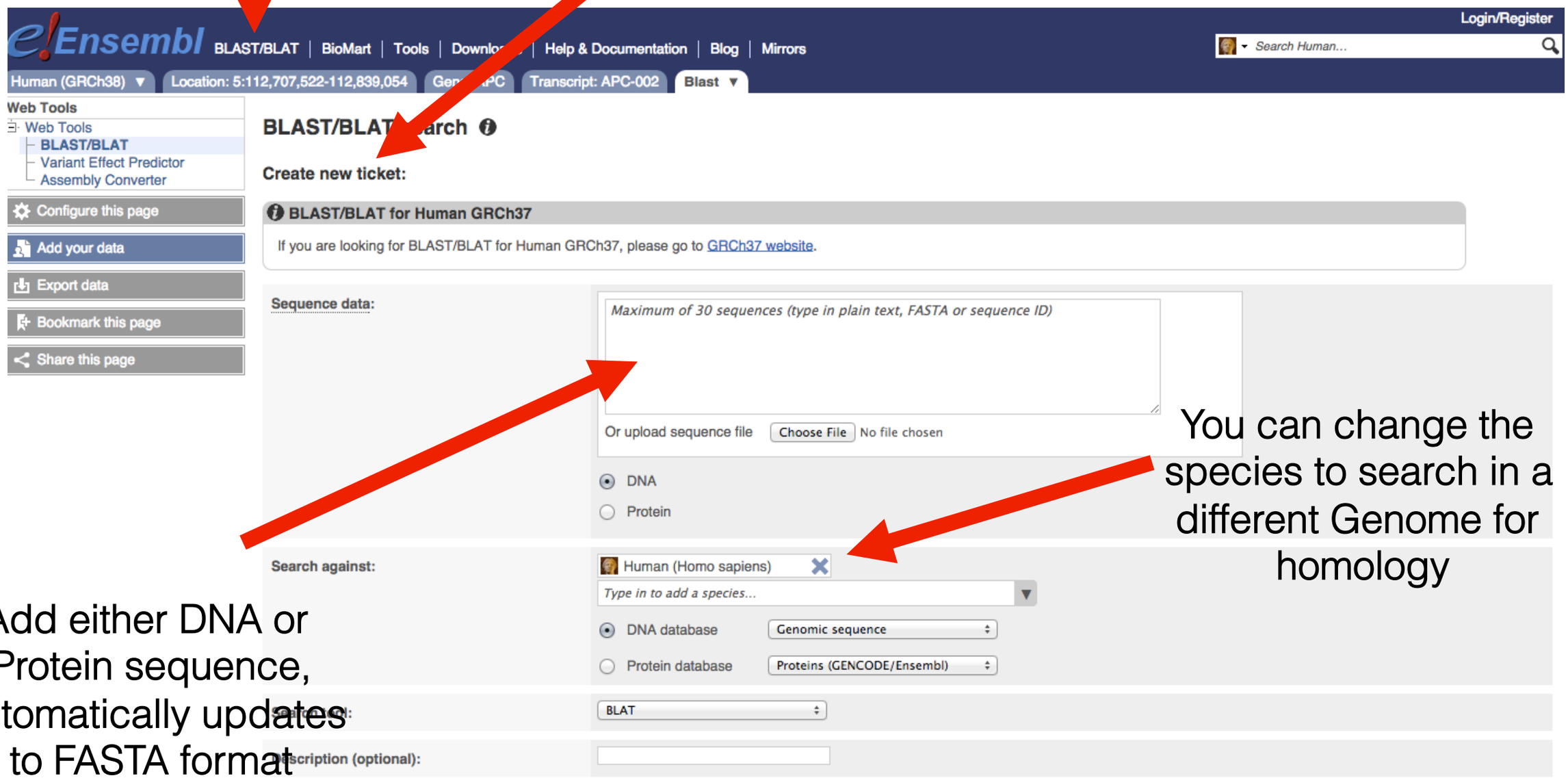
Export the sequence

shows the region where the gene is in detail shows the location of gene

zoom in and out of the ‘region in detail’

Ensembl BLAST/BLAT search

Search Tickets are saved, so you can revisit your results, to see old tickets, scroll down.



Add either DNA or Protein sequence, Automatically updates to FASTA format

You can change the species to search in a different Genome for homology

BLAST/BLAT search results

Mouse (GRCm38.p3) ▼ | Location: 5:112,707,522-112,839,054 | Blast ▼

Web Tools

- Web Tools
  - BLAST/BLAT
    - Ticket
      - BLAT against Mouse (Gen
    - Variant Effect Predictor
    - Assembly Converter

Configure this page

Add your data

Export data

Bookmark this page

Share this page

Results for BLAT against Mouse (Genomic sequence)

Job details

Job name	BLAT against Mouse (Genomic sequence)
Species	Mouse (Mus musculus)
Search type	BLAT

Download results file

download text file of this page

click to see sequence that found a match

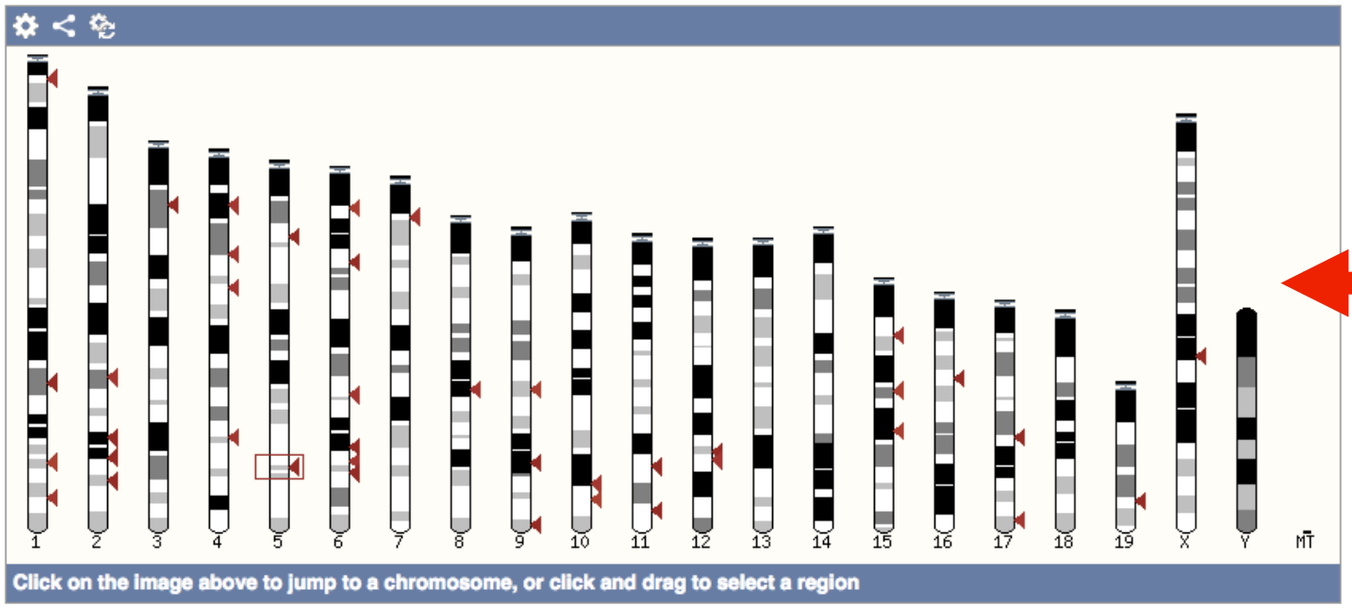
customize what you see

Results table

Show All entries | Show/hide columns | Filter

Genomic Location	Orientation	Query name	Query start	Query end	Query ori	Length	Score	E-val	%ID
4:22889421-22889531 [Sequence]	Forward	[Sequence]	603	709	Forward	113	173.0	3.1e-43	89.38 [Alignment]
5:125240915-125240976 [Sequence]	Forward	[Sequence]	554	615	Forward	62	119.0	5.2e-27	100.00 [Alignment]
1:134238486-134238540 [Sequence]	Forward	[Sequence]	607	661	Forward	55	101.0	9.7e-22	96.36 [Alignment]
1:9858829-9858878 [Sequence]	Forward	[Sequence]	315	364	Forward	50	78.0	1.4e-14	88.00 [Alignment]
2:143640763-143640808 [Sequence]	Forward	[Sequence]	674	720	Forward	47	77.0	1.9e-14	95.74 [Alignment]
15:62661589-62661642 [Sequence]	Forward	[Sequence]	721	788	Forward	68	76.0	5.5e-14	76.47 [Alignment]
2:118795489-118795532 [Sequence]	Forward	[Sequence]	632	675	Forward	44	75.0	6.0e-14	90.91 [Alignment]
4:56497665-56497706 [Sequence]	Forward	[Sequence]	746	787	Forward	42	75.0	9.6e-14	92.86 [Alignment]
1:166837108-166837164 [Sequence]	Forward	[Sequence]	608	656	Forward	57	75.0	1.0e-13	80.70 [Alignment]
				781	Forward	55	72.0	5.8e-13	87.27 [Alignment]
				287	Forward	39	70.0	2.4e-12	94.87 [Alignment]
				345	Forward	35	66.0	2.9e-11	97.14 [Alignment]
				807	Forward	47	64.0	1.8e-10	82.98 [Alignment]
				733	Forward	41	63.0	4.1e-10	92.68 [Alignment]

HSP distribution on genome:



Scroll down to see results location on genome

click on Alignment to see alignment of that particular result