

# Genome Browsers – Tutorial

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# Task1

- Go to the human p53 gene
- Where is it located?
- How many splice forms do you find
  - According to the UCSC gene controls
  - According to ENSEMBL gene controls
- Which ENSEMBL transcript corresponds to the RefSeq gene?
- How does sequence conservation correspond to the exon structure?
- Which RefSeq genes are upstream and downstream of p53 on the same strand? What is roughly the distance?
- Do a similar search using UCSC and ENSEMBL! Which one is easier to use?

# Task 2

- Go to your favourite gene
- Customize the tracks according to your interest
- Make a picture in the PDF format
- Are there any miRNAs targeting your gene?
- Add the provided PicTar miRNA prediction track and check again
- Are there any PicTar targets for the human HIC2 genes? Where are they located in the gene?