

## Assignment 2 (14 marks total)

Download the data associated with this assignment using:

```
$ cd ~  
$ wget \br/>"https://www.dropbox.com/scl/fi/4fjad0q6nlz7hlwd8sxa/assignment_2.zip?rlkey=9rht\  
ytiuu8ir9n1xedijkd4z6&dl=0" \  
-O assignment_2.zip  
$ unzip assignment_2.zip
```

### Question 1

10 marks

Question text goes here

#### Answer

Information for marking

```
Can have text in texinfo blocks
```

```
echo "Or code in bash blocks"
```

### Question 2

2 marks

Another question

#### Answer

Answer info

## Assignment 2

### Question 3

2 marks

A question with an image:

Find genes by...	Search text
free text	<a href="#">human muscular dystrophy</a>
chromosome and symbol	<a href="#">(ll[chr] OR 2[chr]).AND adh*[sym]</a>
partial name and multiple species	<a href="#">alive[prop] AND transporter[title] AND ("Drosophila melanogaster"[orgn] OR "Mus musculus"[orgn])</a>
associated sequence accession	<a href="#">M11313[accn]</a>
gene name (symbol)	<a href="#">BRCA1[sym]</a>
publication (PubMed ID)	<a href="#">11331580[PMID]</a>
Gene Ontology (GO) terms or identifiers	<a href="#">"cell adhesion"[GO]</a> <a href="#">10030[GO]</a>
genes with short variants of medical interest	<a href="#">"clinvar_gene_specific"[Filter]</a>
chromosome and species	<a href="#">Y[CHR] AND human[ORGN]</a>
Enzyme Commission (EC) numbers	<a href="#">1.9.3.1[EC]</a>

Figure 1: An image

Answer

Information for marking

Can have text in texinfo blocks

## Assignment 2

```
echo "Or code in bash blocks"
```

NCBI Resources How To Sign in to NCBI

Gene Gene ((Bos taurus[Organism]) AND 13[Chromosome]) AND 47039937:47060168[Base Position] Search

Create RSS Save search Advanced Help

Full Report Send to: Hide sidebar >>

Showing Current items.

**PRNP prion protein [ *Bos taurus* (cattle) ]** Download Datasets

Gene ID: 281427, updated on 12-Feb-2021

**Summary**

**Official Symbol** PRNP provided by [VGNC](#)

**Official Full Name** prion protein provided by [VGNC](#)

**Primary source** [VGNC:VGNC:33356](#)

**See related** [BGD:BT10271](#)

**Gene type** protein coding

**RefSeq status** VALIDATED

**Organism** [Bos taurus](#)

**Lineage** Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Laurasiatheria; Artiodactyla; Ruminantia; Pecora; Bovidae; Bovinae; Bos

**Also known as** PrP; prn; AltPrP

**Orthologs** [human](#) [mouse](#) [all](#)

**NEW** Try the new [Gene table](#)

Try the new [Transcript table](#)

**Genomic context**

Location: chromosome: 13 See PRNP in [Genome Data Viewer](#)

Exon count: 3

Annotation release	Status	Assembly	Chr	Location
<a href="#">106</a>	current	ARS-UCD1.2 ( <a href="#">GCF_002263795.1</a> )	13	NC_037340.1 (47039937..47060168)
<a href="#">105</a>	previous assembly	Bos_taurus_UMD_3.1.1 ( <a href="#">GCF_000003055.6</a> )	13	AC_000170.1 (47400392..47418507)

**Chromosome 13 - NC\_037340.1**

[ 46527492 ] [ 47198189 ]

DIP2C LOC112449447 ZNF7011 PRNP PRND

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**Genome Browsers**

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- Full text in PMC\_nucleotide
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Figure 2: An image