

Assignment 2 (14 marks total)

Download the data associated with this assignment using:

```
$ cd ~  
$ wget \br/>"https://www.bing.com" \br/>-O assignment_2.tar.gz  
$ tar xvzf assignment_2.tar.gz
```

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

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
106	current	ARS-UCD1.2 (GCF_002263795.1)	13	NC_037340.1 (47039937..47060168)
105	previous assembly	Bos_taurus_UMD_3.1.1 (GCF_000003055.6)	13	AC_000170.1 (47400392..47418507)

Chromosome 13 - NC_037340.1

[46527492] [47198189]

DIP2C LOC112449447 PRNP PRND

Table of contents

- Summary
- Genomic context
- Genomic regions, transcripts, and products
- Bibliography
- Interactions
- General gene information
 - Markers, Clone Names, Homology, Gene Ontology
- General protein information
- NCBI Reference Sequences (RefSeq)
- Related sequences
- Additional links

Genome Browsers

- Genome Data Viewer
- UCSC

Related information

- 3D structures
- BioProjects
- BioSystems
- Conserved Domains
- Full text in PMC
- Full text in PMC_nucleotide
- Functional Class
- Gene neighbors
- Genome
- GEO Profiles

Figure 2: An image