# Protein Coding

There is a search bar. In with six different standard IDs (UniProt, HGNC, Approved symbol UCSC, Ensembl and RefSeq) you can search one protein-coding gene. For each gene protein-coding regions and Pfam, and CATH domains are shown if available, with information about approved symbol, UniProt ID, strand and chromosome which belong to, length of the protein coding and exon counts.

# Candidate Pfam Domains

There is a biograph with connection between cancer types and Pfam protein domains. By clicking on each cancer type, Pfam candidate domains for them are shown with green color and edges in with red or vice versa. Zoom in and zoom out is available. You can move the diagram easily. To find the name of domains or cancers you can use search box.

# More Charts

There are four graphs.

## Candidate CATH Domains

Similar to candidate Pfam domains, but it belongs to CATH domains.

## Candidate Mitochondrial Genes

Similar to candidate Pfam domains, but it belongs to candidate mitochondrial genes for cancers.

## Candidate Stem Cell Genes

Similar to candidate Pfam domains, but it belongs to candidate stem cell genes for cancers.

## Candidate DNA repair Genes

Similar to candidate Pfam domains, but it belongs to candidate stem cell genes for cancers.

# Downloads

There are 12 available files for download.

## Cancer types

Contains the name and abbreviations for each one.

## Candidate CATH Domains

List of candidate CATH domains for each cancer type is shown in each column of the table.

## Candidate Mitochondrial Genes

List of candidate mitochondrial genes for each cancer type is shown in each column of the table.

Candidate Pfam Domains

List of candidate Pfam domains for each cancer type is shown in each column of the table.

Candidate DNA Repair Genes

List of candidate DNA repair genes for each cancer type is shown in each column of the table.

Candidate Stem Cell Genes

List of candidate stem cell genes for each cancer type is shown in each column of the table.

List of DNA Repair Genes

This table contains the list of DNA repair genes, which studies in this study. More information is reachable from the paper.

List of Stem Cell Genes

This table contains the list of stem cell, which studies in this study. More information is reachable from the paper.

Protein Coding Genes

This file contains comprehensive information about protein-coding genes, such as chromosome, DNA strand, different IDs, protein names, exon numbers, protein-coding regions, protein length and position of Pfam and CATH domains for each protein.

Whole Proteom CATH Domain List

This file shows the information about CATH domains, such as accumulative length of this domain in whole proteome and number of repetitions.

Whole Proteom Pfam Domain List

This file shows the information about Pfam domains, such as accumulative length of this domain in whole proteome and number of repetitions.

Pfam vs. CATH

This picture shows the CATH vs. Pfam candidate domain coverage for patients in each cancer type.

**For more information, please contact us:** [**seirana.hashemi@ut.ac.ir**](mailto:seirana.hashemi@ut.ac.ir)