

# STRINGdb Package Vignette

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## 1 INTRODUCTION

STRING (<https://www.string-db.org>) is a database of known and predicted protein-protein interactions. The interactions include direct (physical) and indirect (functional) associations. The database contains information from numerous sources, including experimental repositories, computational prediction methods and public text collections. Each interaction is associated with a combined confidence score that integrates the various evidences. We currently cover over 60 millions proteins from more than 12000 organisms.

As you will learn in this guide, the STRING database can be usefull to add meaning to list of genes (e.g. the best hits coming out from a screen or the most differentially expressed genes coming out from a Microarray/RNaseq experiment.)

We provide the STRINGdb R package in order to facilitate our users in accessing the STRING database from R. In this guide we explain, with examples, most of the package's features and functionalities.

In the STRINGdb R package we use the new ReferenceClasses of R (search for "ReferenceClasses" in the R documentation.). Besides we make use of the iGraph package (<http://igraph.sourceforge.net>) as a data structure to represent our protein-protein interaction network.

To begin, you should first know the NCBI taxonomy identifiers of the organism on which you have performed the experiment (e.g. 9606 for Human, 10090 for mouse). If you don't know that, you can search the NCBI Taxonomy (<http://www.ncbi.nlm.nih.gov/taxonomy>) or start looking at our species table (that you can also use to verify that your organism is represented in the STRING database).

Hence, if your species is not Human (i.e. our default species), you can find it and their taxonomy identifiers on STRING webpage under the 'organisms' section ([https://string-db.org/cgi/input?input\\_page\\_active\\_form=organ](https://string-db.org/cgi/input?input_page_active_form=organ)) or download the full list in the download section of STRING website.

```
> library(STRINGdb)
> string_db <- STRINGdb$new( version="12.0", species=9606,
+                             score_threshold=200, network_type="full", link_data='combined_only', in
```

To use the STRINGdb package, start by creating an instance of the STRINGdb reference class. In the class constructor, you can specify the STRING version and set a threshold for the combined interaction scores. Any interactions with scores below this threshold will not be loaded into the object (the default threshold is 400).

You can also choose the 'network\_type': "functional" for the full functional STRING network, or "physical" for the physical subnetwork that links only proteins within the same physical complex. STRING will automatically download additional data like protein name tables and link data as needed. By default, only combined scores are downloaded, but you can obtain more detailed information by setting the 'link\_data' parameter: "combined\_only" (default), "detailed" for scores separated by evidence channel, or "full" to further separate confidence score into direct and orthology-transferred. If you specify a local directory via the 'input\_directory' parameter, database files will be downloaded there so most methods can function offline. Otherwise, files will be cached in a temporary directory and automatically deleted when the R session ends.

For a better understanding of the package two other commands can be useful:

```
> STRINGdb$methods()           # To list all the methods available.

[1] ".objectPackage"           ".objectParent"
[3] "add_diff_exp_color"       "add_proteins_description"
[5] "benchmark_ppi"           "benchmark_ppi_pathway_view"
[7] "callSuper"                "copy"
[9] "enrichment_heatmap"      "export"
[11] "field"                    "getClass"
[13] "getRefClass"              "get_aliases"
[15] "get_annotations"         "get_bioc_graph"
[17] "get_clusters"            "get_enrichment"
[19] "get_graph"                "get_homologs"
[21] "get_homologs_besthits"    "get_homology_graph"
[23] "get_interactions"        "get_link"
[25] "get_neighbors"           "get_paralogs"
[27] "get_pathways_benchmarking_blackList" "get_png"
[29] "get_ppi_enrichment"      "get_ppi_enrichment_full"
[31] "get_proteins"            "get_pubmed"
[33] "get_pubmed_interaction"  "get_subnetwork"
[35] "get_summary"             "get_term_proteins"
[37] "import"                  "initFields"
[39] "initialize"              "load"
[41] "load_all"                "map"
[43] "mp"                       "plot_network"
[45] "plot_ppi_enrichment"     "post_payload"
[47] "ppi_enrichment"          "remove_homologous_interactions"
[49] "set_background"          "show"
[51] "show#envRefClass"        "trace"
[53] "untrace"                 "usingMethods"
```

```
> STRINGdb$help("get_graph")  # To visualize their documentation.
```

```
Call:
$get_graph()
```

Description:

Return an igraph object with the entire STRING network.  
We invite the user to use the functions of the iGraph package to conveniently

search/analyze the network.

References:

Csardi G, Nepusz T: The igraph software package for complex network research, InterJournal, Complex Systems 1695. 2006.  
<http://igraph.sf.net>

See Also:

In order to simplify the most common tasks, we do also provide convenient functions that wrap some iGraph functions.

```
get_interactions(string_ids) # returns the interactions in between the input proteins
get_neighbors(string_ids)   # Get the neighborhoods of a protein (or of a vector of proteins).
get_subnetwork(string_ids)  # returns a subgraph from the given input proteins
```

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For all the methods that we are going to explain below, you can always use the help function in order to get additional information/parameters with respect to those explained in this guide.

As an example, we use the analyzed data of a microarray study taken from GEO (Gene Expression Omnibus, GSE9008). This study investigates the activity of Resveratrol, a natural phytoestrogen found in red wine and a variety of plants, in A549 lung cancer cells. Microarray gene expression profiling after 48 hours exposure to Revestarol has been performed and compared to a control composed by A549 lung cancer cells threatened only with ethanol. This data is already analyzed for differential expression using the limma package: the genes are sorted by *fdr* corrected *p*values and the log fold change of the differential expression is also reported in the table.

```
> data(diff_exp_example1)
> head(diff_exp_example1)

      pvalue  logFC      gene
1 0.0001018 3.333461  VSTM2L
2 0.0001392 3.822383  TBC1D2
3 0.0001720 3.306056   LENG9
4 0.0001739 3.024605  TMEM27
5 0.0001990 3.854414 LOC100506014
6 0.0002393 3.082052   TSPAN1
```

As a first step, we map the gene names to the STRING database identifiers using the "map" method. In this particular example, we map from gene HUGO names, but our mapping function supports several other common identifiers (e.g. Entrez GeneID, ENSEMBL proteins, RefSeq transcripts ... etc.).

The map function adds an additional column with STRING identifiers to the dataframe that is passed as first parameter.

```
> example1_mapped <- string_db$map( diff_exp_example1, "gene", removeUnmappedRows = TRUE )
```

```
Warning: we couldn't map to STRING 15% of your identifiers
```

As you may have noticed, the previous command prints a warning showing the number of genes that we failed to map. In this particular example, we cannot map all the probes of the microarray that refer to position of the chromosome that are not assigned to a real gene (i.e. all the LOC genes). If we remove all these LOC genes before the mapping we obtain a much lower percentage of unmapped genes (i.e. < 6 %).

If you set to FALSE the "removeUnmappedRows" parameter, than the rows which corresponds to unmapped genes are left and you can manually inspect them.

Finally, we extract the most significant 200 genes and we produce an image of the STRING network for those. The image shows clearly the genes and how they are possibly functionally related. On the top of the plot, we insert a pvalue that represents the probability that you can expect such an equal or greater number of interactions by chance.

```
> hits <- example1_mapped$STRING_id[1:200]
```

```
> string_db$plot_network( hits )
```





## 2 PAYLOAD MECHANISM

This R library provides the ability to interact with the STRING payload mechanism. The payload appears as an additional colored "halo" around the bubbles.

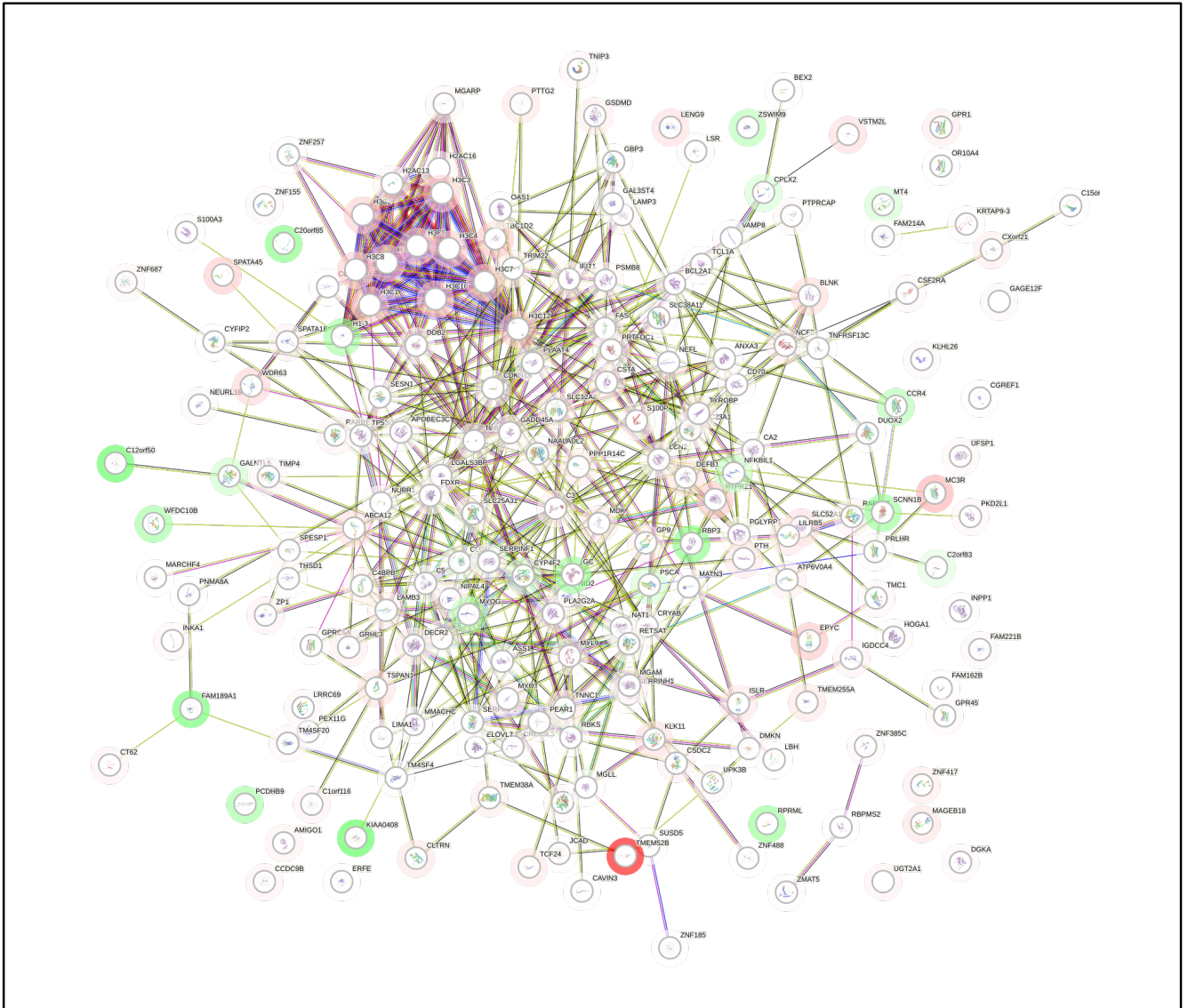
For example, this allows to color in green the genes that are down-regulated and in red the genes that are up-regulated. For this mechanism to work, we provide a function that posts the information on our web server.

```
> # filter by p-value and add a color column
> # (i.e. green down-regulated genes and red for up-regulated genes)
> example1_mapped_pval05 <- string_db$add_diff_exp_color( subset(example1_mapped, pvalue<0.05),
+                                                       logFcColStr="logFC" )

> # post payload information to the STRING server
> payload_id <- string_db$post_payload( example1_mapped_pval05$STRING_id,
+                                     colors=example1_mapped_pval05$color )

> # display a STRING network png with the "halo"
> string_db$plot_network( hits, payload_id=payload_id )
```

proteins: 200  
interactions: 546  
expected interactions: 333 (p-value: 0)



### 3 ENRICHMENT

We provide a method to compute the enrichment in Gene Ontology (Process, Function and Component), KEGG and Reactome pathways, PubMed publications, UniProt Keywords, and PFAM/INTERPRO/SMART domains for your set of proteins all in one simple call. The enrichment itself is computed using an hypergeometric test and the FDR is calculated using Benjamini-Hochberg procedure.

```
> enrichment <- string_db$get_enrichment( hits )  
> head(enrichment, n=20)
```

|    | category     | term         | number_of_genes | number_of_genes_in_background |
|----|--------------|--------------|-----------------|-------------------------------|
| 1  | COMPARTMENTS | GOCC:0000786 | 10              | 94                            |
| 2  | COMPARTMENTS | GOCC:0032993 | 12              | 198                           |
| 3  | COMPARTMENTS | GOCC:0005576 | 42              | 2079                          |
| 4  | COMPARTMENTS | GOCC:0043230 | 17              | 524                           |
| 5  | Process      | GO:0006335   | 10              | 32                            |
| 6  | Process      | GO:0006334   | 11              | 124                           |
| 7  | Process      | GO:0006952   | 35              | 1394                          |
| 8  | Process      | GO:0040029   | 10              | 123                           |
| 9  | Process      | GO:0032200   | 10              | 129                           |
| 10 | Process      | GO:0009607   | 32              | 1375                          |
| 11 | Process      | GO:0051707   | 31              | 1328                          |
| 12 | Process      | GO:0006955   | 30              | 1321                          |
| 13 | Component    | GO:0000786   | 13              | 133                           |
| 14 | Component    | GO:0070062   | 51              | 2096                          |
| 15 | Component    | GO:1903561   | 52              | 2120                          |
| 16 | Component    | GO:0032993   | 15              | 226                           |
| 17 | Component    | GO:0005576   | 76              | 4175                          |
| 18 | Component    | GO:0005615   | 63              | 3247                          |
| 19 | Component    | GO:0031982   | 65              | 3957                          |
| 20 | Component    | GO:0000228   | 10              | 244                           |
|    | ncbiTaxonId  |              |                 |                               |
| 1  | 9606         |              |                 |                               |
| 2  | 9606         |              |                 |                               |
| 3  | 9606         |              |                 |                               |
| 4  | 9606         |              |                 |                               |
| 5  | 9606         |              |                 |                               |
| 6  | 9606         |              |                 |                               |
| 7  | 9606         |              |                 |                               |
| 8  | 9606         |              |                 |                               |
| 9  | 9606         |              |                 |                               |
| 10 | 9606         |              |                 |                               |
| 11 | 9606         |              |                 |                               |
| 12 | 9606         |              |                 |                               |
| 13 | 9606         |              |                 |                               |
| 14 | 9606         |              |                 |                               |
| 15 | 9606         |              |                 |                               |
| 16 | 9606         |              |                 |                               |
| 17 | 9606         |              |                 |                               |
| 18 | 9606         |              |                 |                               |
| 19 | 9606         |              |                 |                               |
| 20 | 9606         |              |                 |                               |



|    |          |          |                             |
|----|----------|----------|-----------------------------|
| 9  | 1.45e-06 | 3.80e-03 | Telomere organization       |
| 10 | 1.15e-05 | 2.01e-02 | Response to biotic stimulus |
| 11 | 1.52e-05 | 2.38e-02 | Response to other organism  |
| 12 | 3.51e-05 | 4.29e-02 | Immune response             |
| 13 | 2.84e-09 | 3.30e-06 | Nucleosome                  |
| 14 | 3.19e-09 | 3.30e-06 | Extracellular exosome       |
| 15 | 1.61e-09 | 3.30e-06 | Extracellular vesicle       |
| 16 | 2.30e-08 | 7.84e-06 | protein-DNA complex         |
| 17 | 5.34e-08 | 1.56e-05 | Extracellular region        |
| 18 | 1.46e-07 | 3.74e-05 | Extracellular space         |
| 19 | 2.77e-05 | 5.70e-03 | Vesicle                     |
| 20 | 2.60e-04 | 4.83e-02 | Nuclear chromosome          |

If you have performed your experiment on a predefined set of proteins, it is important to run the enrichment statistics using that set as a background (otherwise you would get a wrong p-value!). Hence, before to launch the method above, you may want to set the background:

```
> backgroundV <- example1_mapped$STRING_id[1:2000] # as an example, we use the first 2000 genes
> string_db$set_background(backgroundV)
```

You can also set the background when you instantiate the STRINGdb object:

```
> string_db <- STRINGdb$new( score_threshold=200, backgroundV = backgroundV )
```

If you just want to know terms are assigned to your set of proteins (and not necessary enriched) you can use "get\_ annotations" method. This method will output all the terms from most of the categories (the exceptions are KEGG terms due to licensing issues and PubMed due to the size of the output) that are associated with your set of proteins.

```
> annotations <- string_db$get_ annotations( hits )
> head(annotations, n=20)
```

|    | category     | term_id      | number_of_genes | ratio_in_set | species |
|----|--------------|--------------|-----------------|--------------|---------|
| 1  | COMPARTMENTS | GOCC:0000109 | 1               | 0.005        | 9606    |
| 2  | COMPARTMENTS | GOCC:0000139 | 1               | 0.005        | 9606    |
| 3  | COMPARTMENTS | GOCC:0000151 | 2               | 0.010        | 9606    |
| 4  | COMPARTMENTS | GOCC:0000152 | 1               | 0.005        | 9606    |
| 5  | COMPARTMENTS | GOCC:0000228 | 10              | 0.050        | 9606    |
| 6  | COMPARTMENTS | GOCC:0000307 | 1               | 0.005        | 9606    |
| 7  | COMPARTMENTS | GOCC:0000323 | 6               | 0.030        | 9606    |
| 8  | COMPARTMENTS | GOCC:0000417 | 2               | 0.010        | 9606    |
| 9  | COMPARTMENTS | GOCC:0000502 | 1               | 0.005        | 9606    |
| 10 | COMPARTMENTS | GOCC:0000785 | 11              | 0.055        | 9606    |
| 11 | COMPARTMENTS | GOCC:0000786 | 10              | 0.050        | 9606    |
| 12 | COMPARTMENTS | GOCC:0000791 | 1               | 0.005        | 9606    |
| 13 | COMPARTMENTS | GOCC:0001533 | 1               | 0.005        | 9606    |
| 14 | COMPARTMENTS | GOCC:0001650 | 1               | 0.005        | 9606    |
| 15 | COMPARTMENTS | GOCC:0001669 | 1               | 0.005        | 9606    |

|    |              |              |    |       |      |
|----|--------------|--------------|----|-------|------|
| 16 | COMPARTMENTS | GOCC:0001725 | 2  | 0.010 | 9606 |
| 17 | COMPARTMENTS | GOCC:0001726 | 2  | 0.010 | 9606 |
| 18 | COMPARTMENTS | GOCC:0002133 | 1  | 0.005 | 9606 |
| 19 | COMPARTMENTS | GOCC:0005576 | 42 | 0.210 | 9606 |
| 20 | COMPARTMENTS | GOCC:0005577 | 1  | 0.005 | 9606 |

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19 9606. ENSP00000008938, 9606. ENSP00000216286, 9606. ENSP00000223642, 9606. ENSP00000243611, 9606. ENSP00000

20  
  
1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19 PGLYRP1, NID2, C5, C4BPB, C3, SERPINF1, THSD1, TUBB2B, LGALS3BP, C6, CSTA, ANXA3, ZP1, CA2, TIMP4, DEFB1, PSCA, SE

|   |  |                                    |
|---|--|------------------------------------|
|   |  | description                        |
| 1 |  | Nucleotide-excision repair complex |
| 2 |  | Golgi membrane                     |
| 3 |  | Ubiquitin ligase complex           |

```

4           Nuclear ubiquitin ligase complex
5           Nuclear chromosome
6 Cyclin-dependent protein kinase holoenzyme complex
7           Lytic vacuole
8           HIR complex
9           Proteasome complex
10          Chromatin
11          Nucleosome
12          Euchromatin
13          Cornified envelope
14          Fibrillar center
15          Acrosomal vesicle
16          Stress fiber
17          Ruffle
18          Polycystin complex
19          Extracellular region
20          Fibrinogen complex

```

## 4 CLUSTERING

The iGraph package provides several clustering/community algorithms: "fastgreedy", "walktrap", "springlass", "edge.betweenness". We encapsulate this in an easy-to-use function that returns the clusters in a list.

```

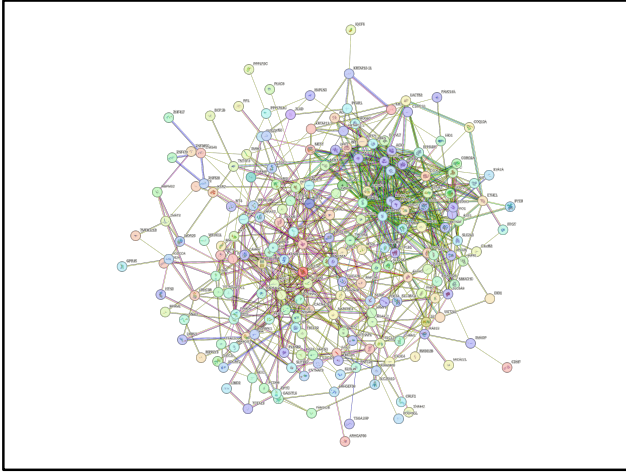
> # get clusters
> clustersList <- string_db$get_clusters(example1_mapped$STRING_id[1:600])

> # plot first 4 clusters
> par(mfrow=c(2,2))
> for(i in seq(1:4)){
+   string_db$plot_network(clustersList[[i]])
+ }

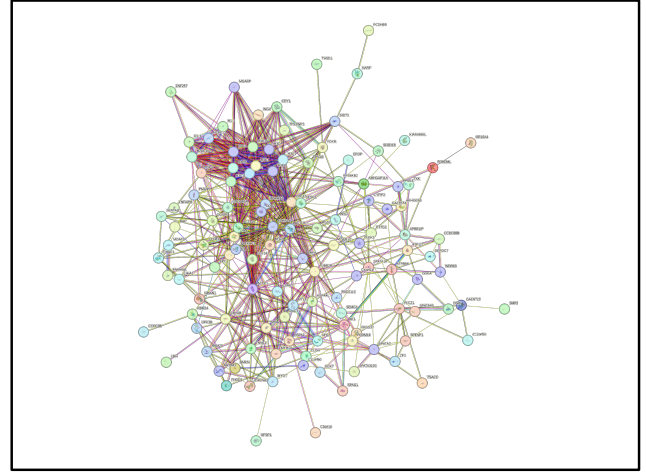
```



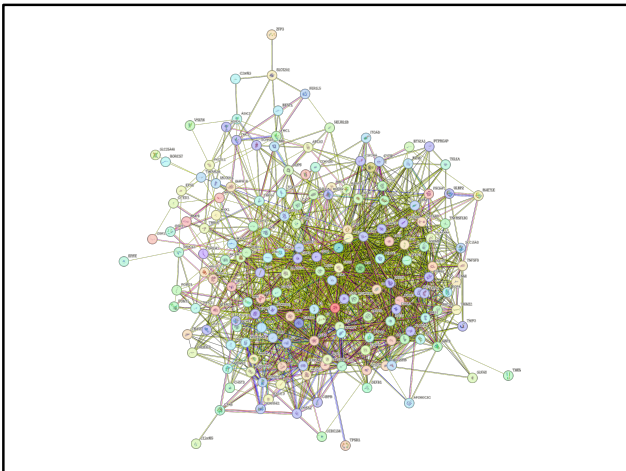
proteins: 204  
interactions: 673  
expected interactions: 238 (p-value: 0)



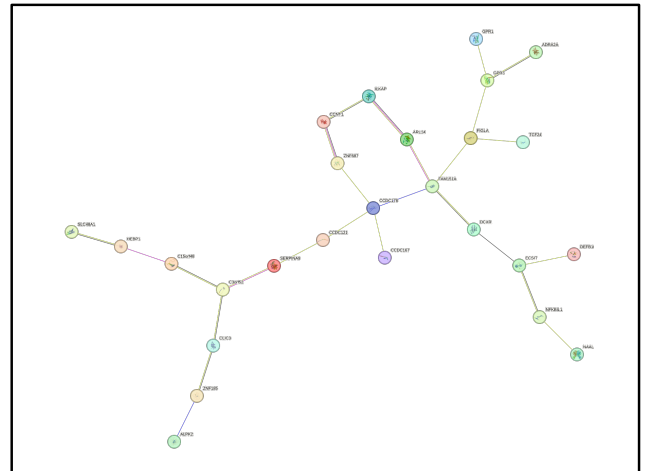
proteins: 121  
interactions: 581  
expected interactions: 165 (p-value: 0)



proteins: 173  
interactions: 1576  
expected interactions: 469 (p-value: 0)



proteins: 26  
interactions: 26  
expected interactions: 2 (p-value: 0)



## 5 ADDITIONAL PROTEIN INFORMATION

You can get a table that contains all the proteins that are present in our database of the species of interest. The protein table also include the preferred name, the size and a short description of each protein.

```
> string_proteins <- string_db$get_proteins()
```

In the following section we will show how to query STRING with R on some specific proteins. In the examples, we will use the famous tumor proteins TP53 and ATM .

First we need to get the STRING identifier of those proteins, using our mp method:

```
> tp53 = string_db$mp( "tp53" )
> atm = string_db$mp( "atm" )
```

The mp method (i.e. map proteins) is an alternative to our map method, to be used when you need to map only one or few proteins.

It takes in input a vector of protein aliases and returns a vector with the STRING identifiers of those proteins.

Using the following method, you can see the proteins that interact with one or more of your proteins:

```
> string_db$get_neighbors( c(tp53, atm) )

[1] "9606.ENSP00000001008" "9606.ENSP00000003084" "9606.ENSP00000003302"
[4] "9606.ENSP00000004531" "9606.ENSP00000004982" "9606.ENSP00000005178"
[7] "9606.ENSP00000005257" "9606.ENSP00000005260" "9606.ENSP00000005340"
[10] "9606.ENSP00000006015" "9606.ENSP00000006053" "9606.ENSP00000008527"
[13] "9606.ENSP00000009530" "9606.ENSP00000011619" "9606.ENSP00000011653"
[16] "9606.ENSP00000013807" "9606.ENSP00000014914" "9606.ENSP00000020945"
[19] "9606.ENSP00000025008" "9606.ENSP00000027335" "9606.ENSP00000037243"
[22] "9606.ENSP00000039007" "9606.ENSP00000044462" "9606.ENSP00000052754"
[25] "9606.ENSP00000053243" "9606.ENSP00000053867" "9606.ENSP00000055077"
[28] "9606.ENSP00000056233" "9606.ENSP00000072644" "9606.ENSP00000075120"
[31] "9606.ENSP00000078429" "9606.ENSP00000080059" "9606.ENSP00000085219"
[34] "9606.ENSP00000155840" "9606.ENSP00000155926" "9606.ENSP00000156084"
[37] "9606.ENSP00000156626" "9606.ENSP00000157812" "9606.ENSP00000159060"
[40] "9606.ENSP00000159111" "9606.ENSP00000160382" "9606.ENSP00000160827"
[43] "9606.ENSP00000161559" "9606.ENSP00000161863" "9606.ENSP00000162749"
[46] "9606.ENSP00000164139" "9606.ENSP00000164227" "9606.ENSP00000166345"
[49] "9606.ENSP00000167586" "9606.ENSP00000167588" "9606.ENSP00000168148"
[52] "9606.ENSP00000168712" "9606.ENSP00000170447" "9606.ENSP00000171887"
[55] "9606.ENSP00000172229" "9606.ENSP00000173229" "9606.ENSP00000174618"
[58] "9606.ENSP00000177694" "9606.ENSP00000178638" "9606.ENSP00000178640"
[61] "9606.ENSP00000179259" "9606.ENSP00000180166" "9606.ENSP00000181796"
[64] "9606.ENSP00000181839" "9606.ENSP00000184956" "9606.ENSP00000188790"
[67] "9606.ENSP00000198767" "9606.ENSP00000199280" "9606.ENSP00000199764"
[70] "9606.ENSP00000200181" "9606.ENSP00000200453" "9606.ENSP00000200676"
```

[73] "9606.ENSP00000201031" "9606.ENSP00000201979" "9606.ENSP00000202017"  
[76] "9606.ENSP00000202556" "9606.ENSP00000202967" "9606.ENSP00000203407"  
[79] "9606.ENSP00000203629" "9606.ENSP00000203630" "9606.ENSP00000203664"  
[82] "9606.ENSP00000204517" "9606.ENSP00000204961" "9606.ENSP00000205143"  
[85] "9606.ENSP00000205636" "9606.ENSP00000205948" "9606.ENSP00000206513"  
[88] "9606.ENSP00000206765" "9606.ENSP00000209668" "9606.ENSP00000209728"  
[91] "9606.ENSP00000209875" "9606.ENSP00000210313" "9606.ENSP00000210444"  
[94] "9606.ENSP00000211287" "9606.ENSP00000211998" "9606.ENSP00000212015"  
[97] "9606.ENSP00000212355" "9606.ENSP00000214869" "9606.ENSP00000215057"  
[100] "9606.ENSP00000215071" "9606.ENSP00000215530" "9606.ENSP00000215567"  
[103] "9606.ENSP00000215574" "9606.ENSP00000215631" "9606.ENSP00000215659"  
[106] "9606.ENSP00000215743" "9606.ENSP00000215754" "9606.ENSP00000215781"  
[109] "9606.ENSP00000215793" "9606.ENSP00000215794" "9606.ENSP00000215829"  
[112] "9606.ENSP00000215832" "9606.ENSP00000215882" "9606.ENSP00000215909"  
[115] "9606.ENSP00000216037" "9606.ENSP00000216039" "9606.ENSP00000216044"  
[118] "9606.ENSP00000216099" "9606.ENSP00000216115" "9606.ENSP00000216117"  
[121] "9606.ENSP00000216122" "9606.ENSP00000216133" "9606.ENSP00000216139"  
[124] "9606.ENSP00000216160" "9606.ENSP00000216181" "9606.ENSP00000216185"  
[127] "9606.ENSP00000216211" "9606.ENSP00000216218" "9606.ENSP00000216223"  
[130] "9606.ENSP00000216225" "9606.ENSP00000216254" "9606.ENSP00000216271"  
[133] "9606.ENSP00000216274" "9606.ENSP00000216277" "9606.ENSP00000216297"  
[136] "9606.ENSP00000216330" "9606.ENSP00000216336" "9606.ENSP00000216341"  
[139] "9606.ENSP00000216373" "9606.ENSP00000216392" "9606.ENSP00000216420"  
[142] "9606.ENSP00000216446" "9606.ENSP00000216455" "9606.ENSP00000216479"  
[145] "9606.ENSP00000216489" "9606.ENSP00000216492" "9606.ENSP00000216629"  
[148] "9606.ENSP00000216639" "9606.ENSP00000216714" "9606.ENSP00000216727"  
[151] "9606.ENSP00000216733" "9606.ENSP00000216780" "9606.ENSP00000216797"  
[154] "9606.ENSP00000216802" "9606.ENSP00000216807" "9606.ENSP00000216862"  
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It is also possible to retrieve the interactions that connect certain input proteins between each other. Using the "get\_interactions" method we can clearly see that TP53 and ATM interact with each other with a good evidence/score.

```
> string_db$get_interactions( c(tp53, atm) )

      from                to combined_score
1 9606.ENSP00000269305 9606.ENSP00000278616      999
2 9606.ENSP00000269305 9606.ENSP00000278616      999
```

STRING provides a way to get homologous proteins: in our database we store ALL-AGAINST-ALL alignments within all 5090 organisms. You can retrieve all of the paralogs of the protein using "get\_paralogs" method.

```
> # Get all homologs of TP53 in human.
> string_db$get_paralogs(tp53)

[1] X9606                X9606.ENSP00000269305    X9606.1
[4] X9606.ENSP00000269305.1 X815.8
<0 rows> (or 0-length row.names)
```

STRING also stores best hits (as measured by bitscore) between the proteins from different species. "get\_homologs\_besthits" lets you retrieve these homologs.

```
> # get the best hits of the following protein in all the STRING species
> string_db$get_homologs_besthits(tp53)
```

|    |       |                       |         |                            |        |
|----|-------|-----------------------|---------|----------------------------|--------|
|    | X9606 | X9606.ENSPO0000269305 | X9597   | X9597.ENSPPAP00000011040   | X815.8 |
| 1  | 9606  | 9606.ENSPO0000269305  | 9598    | 9598.ENSPTRP00000014836    | 815.8  |
| 2  | 9606  | 9606.ENSPO0000269305  | 9606    | 9606.ENSPO0000269305       | 815.8  |
| 3  | 9606  | 9606.ENSPO0000269305  | 9601    | 9601.ENSPPYP00000008923    | 799.3  |
| 4  | 9606  | 9606.ENSPO0000269305  | 61621   | 61621.ENSRBIP00000028632   | 786.6  |
| 5  | 9606  | 9606.ENSPO0000269305  | 61622   | 61622.ENSRR0P00000026843   | 786.6  |
| 6  | 9606  | 9606.ENSPO0000269305  | 591936  | 591936.ENSPT0P00000010553  | 785.8  |
| 7  | 9606  | 9606.ENSPO0000269305  | 60711   | 60711.ENS0SAP00000007551   | 785.0  |
| 8  | 9606  | 9606.ENSPO0000269305  | 9541    | 9541.ENS0FAP00000038526    | 783.9  |
| 9  | 9606  | 9606.ENSPO0000269305  | 9544    | 9544.ENS0MUP00000011334    | 783.9  |
| 10 | 9606  | 9606.ENSPO0000269305  | 9565    | 9565.ENS0GEP00000031378    | 783.1  |
| 11 | 9606  | 9606.ENSPO0000269305  | 9531    | 9531.ENS0CATP00000032045   | 738.8  |
| 12 | 9606  | 9606.ENSPO0000269305  | 9568    | 9568.ENS0LEP00000037099    | 738.4  |
| 13 | 9606  | 9606.ENSPO0000269305  | 9555    | 9555.ENS0PANP00000033477   | 737.3  |
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| 15 | 9606  | 9606.ENSPO0000269305  | 9516    | 9516.ENS0CCAP00000029525   | 729.6  |
| 16 | 9606  | 9606.ENSPO0000269305  | 1868482 | 1868482.ENS0SYP00000023752 | 707.6  |
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| 21 | 9606  | 9606.ENSPO0000269305  | 9999    | 9999.ENS0SUPAP00010019485  | 696.4  |
| 22 | 9606  | 9606.ENSPO0000269305  | 99837   | 99837.ENS0SDAP00000002829  | 696.0  |
| 23 | 9606  | 9606.ENSPO0000269305  | 9986    | 9986.ENS0CUP00000000989    | 683.7  |
| 24 | 9606  | 9606.ENSPO0000269305  | 9483    | 9483.ENS0CJAP000000066800  | 682.6  |
| 25 | 9606  | 9606.ENSPO0000269305  | 30608   | 30608.ENS0MICP00000039812  | 681.8  |
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| 28 | 9606  | 9606.ENSPO0000269305  | 9749    | 9749.Q8SPZ3                | 676.4  |
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| 31 | 9606  | 9606.ENSPO0000269305  | 9593    | 9593.ENS0GGOP00000030954   | 671.4  |
| 32 | 9606  | 9606.ENSPO0000269305  | 310752  | 310752.A0A383YUA7          | 669.8  |
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| 36 | 9606  | 9606.ENSPO0000269305  | 39432   | 39432.ENS0SBOP00000008181  | 656.4  |
| 37 | 9606  | 9606.ENSPO0000269305  | 30611   | 30611.ENS0GAP00000015106   | 655.6  |
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| 40 | 9606  | 9606.ENSPO0000269305  | 83772   | 83772.ENS0EASP000005028399 | 653.7  |
| 41 | 9606  | 9606.ENSPO0000269305  | 51154   | 51154.ENS0CWAP00000005800  | 652.9  |
| 42 | 9606  | 9606.ENSPO0000269305  | 230844  | 230844.ENS0PEMP00000010300 | 651.7  |
| 43 | 9606  | 9606.ENSPO0000269305  | 68415   | 68415.ENS0MSP00000026578   | 640.6  |
| 44 | 9606  | 9606.ENSPO0000269305  | 9646    | 9646.ENS0AMEP00000017825   | 640.2  |
| 45 | 9606  | 9606.ENSPO0000269305  | 885580  | 885580.ENS0FDAP00000011613 | 636.3  |
| 46 | 9606  | 9606.ENSPO0000269305  | 9643    | 9643.ENS0UAMP00000000913   | 635.6  |
| 47 | 9606  | 9606.ENSPO0000269305  | 116960  | 116960.A0A3Q7Y5W2          | 634.4  |

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| 48 | 9606 | 9606.ENSPO0000269305 | 29073   | 29073.ENSUMAP00000023207     | 634.4 |
| 49 | 9606 | 9606.ENSPO0000269305 | 286419  | 286419.ENSCAFP00020009510    | 634.0 |
| 50 | 9606 | 9606.ENSPO0000269305 | 9708    | 9708.A0A2U3VT95              | 634.0 |
| 51 | 9606 | 9606.ENSPO0000269305 | 9361    | 9361.ENSDNOP00000004075      | 633.6 |
| 52 | 9606 | 9606.ENSPO0000269305 | 9615    | 9615.ENSCAFP000000064590     | 633.3 |
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| 54 | 9606 | 9606.ENSPO0000269305 | 59479   | 59479.ENSRFEP00010016808     | 631.7 |
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| 59 | 9606 | 9606.ENSPO0000269305 | 72004   | 72004.ENSBMUP000000028863    | 622.9 |
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| 63 | 9606 | 9606.ENSPO0000269305 | 391180  | 391180.A0A2Y9L4Q2            | 620.5 |
| 64 | 9606 | 9606.ENSPO0000269305 | 9913    | 9913.ENSBTAP000000001420     | 620.2 |
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| 66 | 9606 | 9606.ENSPO0000269305 | 9925    | 9925.ENSHIP000000030141      | 618.2 |
| 67 | 9606 | 9606.ENSPO0000269305 | 9669    | 9669.ENSMUPP000000008945     | 617.8 |
| 68 | 9606 | 9606.ENSPO0000269305 | 30522   | 30522.A0A4W2I2P0             | 617.5 |
| 69 | 9606 | 9606.ENSPO0000269305 | 42254   | 42254.ENSSARP000000005616    | 617.1 |
| 70 | 9606 | 9606.ENSPO0000269305 | 51337   | 51337.ENSJAP000000008090     | 616.7 |
| 71 | 9606 | 9606.ENSPO0000269305 | 9940    | 9940.ENSOARP000000016707     | 616.7 |
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| 77 | 9606 | 9606.ENSPO0000269305 | 51338   | 51338.ENSCNP000000017223     | 604.7 |
| 78 | 9606 | 9606.ENSPO0000269305 | 10096   | 10096.MGP_SPRETEiJ_P0028933  | 603.6 |
| 79 | 9606 | 9606.ENSPO0000269305 | 10093   | 10093.MGP_PahariEiJ_P0034306 | 601.3 |
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| 82 | 9606 | 9606.ENSPO0000269305 | 37548   | 37548.ENSCAPP000000017521    | 600.1 |
| 83 | 9606 | 9606.ENSPO0000269305 | 10141   | 10141.ENSCPOP000000029751    | 599.0 |
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| 86 | 9606 | 9606.ENSPO0000269305 | 1328070 | 1328070.ENSPSMP000000026875  | 595.5 |
| 87 | 9606 | 9606.ENSPO0000269305 | 10103   | 10103.ENSMSIP000000031034    | 595.1 |
| 88 | 9606 | 9606.ENSPO0000269305 | 10047   | 10047.ENSMUGP000000017526    | 593.6 |
| 89 | 9606 | 9606.ENSPO0000269305 | 9785    | 9785.ENSLAFP000000006292     | 592.0 |
| 90 | 9606 | 9606.ENSPO0000269305 | 9823    | 9823.ENSSSCP000000050664     | 591.7 |
| 91 | 9606 | 9606.ENSPO0000269305 | 9978    | 9978.ENSOPRP000000005906     | 586.3 |
| 92 | 9606 | 9606.ENSPO0000269305 | 246437  | 246437.L9KM90                | 574.3 |
| 93 | 9606 | 9606.ENSPO0000269305 | 9813    | 9813.ENSPCAP000000011892     | 568.5 |
| 94 | 9606 | 9606.ENSPO0000269305 | 10020   | 10020.ENSDORP000000023664    | 562.4 |
| 95 | 9606 | 9606.ENSPO0000269305 | 59463   | 59463.ENSMUP000000005861     | 559.3 |
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| 97 | 9606 | 9606.ENSPO0000269305 | 38626   | 38626.ENSPCIP000000039513    | 502.3 |
| 98 | 9606 | 9606.ENSPO0000269305 | 29139   | 29139.ENSVURP00010004263     | 496.1 |

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| 101 | 9606 | 9606. ENSP00000269305 | 9371    | 9371. ENSETEP00000007296    | 420.2 |
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| 103 | 9606 | 9606. ENSP00000269305 | 9545    | 9545. ENSMNEP00000030865    | 399.8 |
| 104 | 9606 | 9606. ENSP00000269305 | 56216   | 56216. AOA1A6GWM4           | 394.0 |
| 105 | 9606 | 9606. ENSP00000269305 | 7897    | 7897. ENSLACP00000015915    | 393.3 |
| 106 | 9606 | 9606. ENSP00000269305 | 8496    | 8496. AOA151MW63            | 373.6 |
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| 108 | 9606 | 9606. ENSP00000269305 | 9315    | 9315. ENSMEUP00000011978    | 371.7 |
| 109 | 9606 | 9606. ENSP00000269305 | 8478    | 8478. ENSCPBP00000031582    | 364.8 |
| 110 | 9606 | 9606. ENSP00000269305 | 113540  | 113540. ENSSFOP00015035795  | 361.3 |
| 111 | 9606 | 9606. ENSP00000269305 | 38654   | 38654. AOA3Q0FUE5           | 359.8 |
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| 113 | 9606 | 9606. ENSP00000269305 | 13735   | 13735. ENSPSIP00000014905   | 359.4 |
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| 115 | 9606 | 9606. ENSP00000269305 | 7918    | 7918. ENSLOCP00000017063    | 359.0 |
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| 117 | 9606 | 9606. ENSP00000269305 | 1676925 | 1676925. ENSPKIP00000014805 | 357.1 |
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| 119 | 9606 | 9606. ENSP00000269305 | 75366   | 75366. ENSSGRP00000074183   | 356.3 |
| 120 | 9606 | 9606. ENSP00000269305 | 8030    | 8030. ENSSSAP00000057928    | 355.5 |
| 121 | 9606 | 9606. ENSP00000269305 | 307959  | 307959. ENSSRHP00000051429  | 353.2 |
| 122 | 9606 | 9606. ENSP00000269305 | 1608454 | 1608454. ENSSANP00000026698 | 352.8 |
| 123 | 9606 | 9606. ENSP00000269305 | 27687   | 27687. ENSECRP00000015713   | 351.7 |
| 124 | 9606 | 9606. ENSP00000269305 | 8005    | 8005. ENSEEEP00000033982    | 345.9 |
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| 128 | 9606 | 9606. ENSP00000269305 | 96440   | 96440. ENSSMRP00000003871   | 340.9 |
| 129 | 9606 | 9606. ENSP00000269305 | 7955    | 7955. ENSDARP00000116736    | 340.9 |
| 130 | 9606 | 9606. ENSP00000269305 | 84645   | 84645. AOA498NKF5           | 340.1 |
| 131 | 9606 | 9606. ENSP00000269305 | 8364    | 8364. ENSXETP00000041856    | 339.7 |
| 132 | 9606 | 9606. ENSP00000269305 | 37347   | 37347. ENSTBEP00000010189   | 336.7 |
| 133 | 9606 | 9606. ENSP00000269305 | 299321  | 299321. ENSDCDP00000007017  | 332.0 |
| 134 | 9606 | 9606. ENSP00000269305 | 8469    | 8469. M7CJF0                | 330.9 |
| 135 | 9606 | 9606. ENSP00000269305 | 103695  | 103695. ENSPVIP00000017506  | 324.3 |
| 136 | 9606 | 9606. ENSP00000269305 | 623744  | 623744. AOA553PV69          | 319.7 |
| 137 | 9606 | 9606. ENSP00000269305 | 8508    | 8508. ENSSPUP00000018842    | 313.9 |
| 138 | 9606 | 9606. ENSP00000269305 | 2489341 | 2489341. ENSSHBP00005007544 | 313.2 |
| 139 | 9606 | 9606. ENSP00000269305 | 42514   | 42514. ENSPNAP00000014501   | 313.2 |
| 140 | 9606 | 9606. ENSP00000269305 | 61221   | 61221. ENSVKKP00000029045   | 310.8 |
| 141 | 9606 | 9606. ENSP00000269305 | 7994    | 7994. ENSAMXP00000021366    | 309.3 |
| 142 | 9606 | 9606. ENSP00000269305 | 7950    | 7950. ENSCHAP00000042143    | 305.1 |
| 143 | 9606 | 9606. ENSP00000269305 | 586833  | 586833. ENSMMDP00005051289  | 304.7 |
| 144 | 9606 | 9606. ENSP00000269305 | 8022    | 8022. AOA060XN97            | 304.3 |
| 145 | 9606 | 9606. ENSP00000269305 | 8081    | 8081. ENSPREP00000019676    | 293.5 |
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| 147 | 9606 | 9606. ENSP00000269305 | 47969   | 47969. ENSOABP00000003944   | 291.6 |
| 148 | 9606 | 9606. ENSP00000269305 | 181472  | 181472. ENSSFAP00005012771  | 291.6 |
| 149 | 9606 | 9606. ENSP00000269305 | 375764  | 375764. ENSSORP00005058467  | 291.6 |

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| 152 | 9606 | 9606.ENSPO0000269305 | 215358  | 215358.ENSLCRP00005011976  | 290.8 |
| 153 | 9606 | 9606.ENSPO0000269305 | 80972   | 80972.ENSACOP00000001385   | 290.0 |
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| 157 | 9606 | 9606.ENSPO0000269305 | 64176   | 64176.ENSMPRP00000017811   | 289.3 |
| 158 | 9606 | 9606.ENSPO0000269305 | 441366  | 441366.ENSGWIP00000038103  | 288.9 |
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| 162 | 9606 | 9606.ENSPO0000269305 | 32473   | 32473.ENSXCOP00000002276   | 285.8 |
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| 164 | 9606 | 9606.ENSPO0000269305 | 244447  | 244447.ENSCEP00000003997   | 285.4 |
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| 169 | 9606 | 9606.ENSPO0000269305 | 64144   | 64144.ENSATEP00000028323   | 284.3 |
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| 171 | 9606 | 9606.ENSPO0000269305 | 210632  | 210632.ENSPRNP00000030862  | 283.5 |
| 172 | 9606 | 9606.ENSPO0000269305 | 48699   | 48699.ENSPLAP00000022694   | 283.1 |
| 173 | 9606 | 9606.ENSPO0000269305 | 61819   | 61819.ENSACTIP00000020373  | 282.3 |
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| 175 | 9606 | 9606.ENSPO0000269305 | 299123  | 299123.ENSLSDP00000017092  | 280.4 |
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| 178 | 9606 | 9606.ENSPO0000269305 | 137246  | 137246.AOA401SCC1          | 279.3 |
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| 182 | 9606 | 9606.ENSPO0000269305 | 41447   | 41447.ENSSDUP00000028226   | 276.6 |
| 183 | 9606 | 9606.ENSPO0000269305 | 59729   | 59729.ENSTGUP00000021519   | 276.2 |
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| 185 | 9606 | 9606.ENSPO0000269305 | 33528   | 33528.ENSGAFP00000008062   | 276.2 |
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| 188 | 9606 | 9606.ENSPO0000269305 | 143630  | 143630.AOA402EXU8          | 275.4 |
| 189 | 9606 | 9606.ENSPO0000269305 | 240159  | 240159.AOA4U5UJG8          | 275.4 |
| 190 | 9606 | 9606.ENSPO0000269305 | 52670   | 52670.AOA2I4CET8           | 275.0 |
| 191 | 9606 | 9606.ENSPO0000269305 | 69293   | 69293.ENSGACP00000018012   | 275.0 |
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| 193 | 9606 | 9606.ENSPO0000269305 | 8049    | 8049.ENSXMOP00000000401    | 274.6 |
| 194 | 9606 | 9606.ENSPO0000269305 | 303518  | 303518.ENSPNYP00000025442  | 274.2 |
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| 198 | 9606 | 9606.ENSPO0000269305 | 28377   | 28377.ENSACAP00000001746   | 273.9 |
| 199 | 9606 | 9606.ENSPO0000269305 | 75743   | 75743.AOA401P193           | 273.5 |
| 200 | 9606 | 9606.ENSPO0000269305 | 109280  | 109280.ENSHCOP00000022970  | 273.1 |



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| 206 | 9606 | 9606.ENSPO0000269305 | 156563 | 156563.ENSCEP00000019692  | 271.6 |
| 207 | 9606 | 9606.ENSPO0000269305 | 12930  | 12930.AOA0Q3T504          | 271.6 |
| 208 | 9606 | 9606.ENSPO0000269305 | 333673 | 333673.AOA3MOIU8          | 271.2 |
| 209 | 9606 | 9606.ENSPO0000269305 | 8996   | 8996.ENSNMEP00000004526   | 271.2 |
| 210 | 9606 | 9606.ENSPO0000269305 | 9157   | 9157.ENSMPJP00000017734   | 271.2 |
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| 212 | 9606 | 9606.ENSPO0000269305 | 9135   | 9135.ENSSEAP00000001137   | 270.8 |
| 213 | 9606 | 9606.ENSPO0000269305 | 93934  | 93934.ENSJPP00005010805   | 270.4 |
| 214 | 9606 | 9606.ENSPO0000269305 | 409849 | 409849.ENSMPGP00000017230 | 270.4 |
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| 216 | 9606 | 9606.ENSPO0000269305 | 9049   | 9049.ENSSTP00000007061    | 270.4 |
| 217 | 9606 | 9606.ENSPO0000269305 | 9054   | 9054.ENSCLP000000024156   | 270.4 |
| 218 | 9606 | 9606.ENSPO0000269305 | 13146  | 13146.ENSUNP00000017973   | 270.4 |
| 219 | 9606 | 9606.ENSPO0000269305 | 372326 | 372326.AOA1V4KNI0         | 270.0 |
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| 221 | 9606 | 9606.ENSPO0000269305 | 94827  | 94827.AOA099ZQ65          | 269.6 |
| 222 | 9606 | 9606.ENSPO0000269305 | 44316  | 44316.ENSEG0P00005018987  | 269.2 |
| 223 | 9606 | 9606.ENSPO0000269305 | 55661  | 55661.AOA091G407          | 269.2 |
| 224 | 9606 | 9606.ENSPO0000269305 | 94237  | 94237.ENSMMOP00000018694  | 269.2 |
| 225 | 9606 | 9606.ENSPO0000269305 | 128390 | 128390.AOA091UUY0         | 269.2 |
| 226 | 9606 | 9606.ENSPO0000269305 | 441894 | 441894.ENSSEUP00000005331 | 269.2 |
| 227 | 9606 | 9606.ENSPO0000269305 | 7868   | 7868.ENSCHIP00000007753   | 269.2 |
| 228 | 9606 | 9606.ENSPO0000269305 | 9238   | 9238.AOA093R114           | 269.2 |
| 229 | 9606 | 9606.ENSPO0000269305 | 55544  | 55544.AOA4D9E5P9          | 268.9 |
| 230 | 9606 | 9606.ENSPO0000269305 | 85066  | 85066.AOA091EA06          | 268.9 |
| 231 | 9606 | 9606.ENSPO0000269305 | 198806 | 198806.ENSPPUP00000025340 | 268.9 |
| 232 | 9606 | 9606.ENSPO0000269305 | 308060 | 308060.ENSARWP00000009421 | 268.9 |
| 233 | 9606 | 9606.ENSPO0000269305 | 425635 | 425635.ENSPPGP00000026631 | 268.9 |
| 234 | 9606 | 9606.ENSPO0000269305 | 8502   | 8502.ENSPPRP00005017750   | 268.9 |
| 235 | 9606 | 9606.ENSPO0000269305 | 8790   | 8790.ENSNDVP00000009001   | 268.9 |
| 236 | 9606 | 9606.ENSPO0000269305 | 8823   | 8823.ENSAP0P00000009000   | 268.9 |
| 237 | 9606 | 9606.ENSPO0000269305 | 8824   | 8824.ENSAPWP00000012514   | 268.9 |
| 238 | 9606 | 9606.ENSPO0000269305 | 9244   | 9244.AOA091HZ84           | 268.9 |
| 239 | 9606 | 9606.ENSPO0000269305 | 30464  | 30464.ENSNEP00000010833   | 268.9 |
| 240 | 9606 | 9606.ENSPO0000269305 | 40217  | 40217.ENSJHYP00000001101  | 268.9 |
| 241 | 9606 | 9606.ENSPO0000269305 | 50402  | 50402.AOA0A0AU13          | 268.5 |
| 242 | 9606 | 9606.ENSPO0000269305 | 118200 | 118200.AOA093GLW0         | 268.5 |
| 243 | 9606 | 9606.ENSPO0000269305 | 132585 | 132585.ENSABRP00000009434 | 268.5 |
| 244 | 9606 | 9606.ENSPO0000269305 | 194338 | 194338.ENSACUP00000017269 | 268.5 |
| 245 | 9606 | 9606.ENSPO0000269305 | 211598 | 211598.ENSANIP00000006686 | 268.5 |
| 246 | 9606 | 9606.ENSPO0000269305 | 241587 | 241587.ENSACOP00000010351 | 268.5 |
| 247 | 9606 | 9606.ENSPO0000269305 | 8840   | 8840.ENSAPLP000000032186  | 268.5 |
| 248 | 9606 | 9606.ENSPO0000269305 | 8845   | 8845.ENSACDP00005018035   | 268.5 |
| 249 | 9606 | 9606.ENSPO0000269305 | 8932   | 8932.AOA2I0LU30           | 268.5 |
| 250 | 9606 | 9606.ENSPO0000269305 | 30419  | 30419.AOA091VW97          | 268.5 |
| 251 | 9606 | 9606.ENSPO0000269305 | 223781 | 223781.ENSACCP00020004462 | 268.1 |

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| 252 | 9606 | 9606.ENSPO0000269305 | 328815  | 328815.ENSMVIP00005001759 | 268.1 |
| 253 | 9606 | 9606.ENSPO0000269305 | 9233    | 9233.A0A087R7Z2           | 268.1 |
| 254 | 9606 | 9606.ENSPO0000269305 | 9258    | 9258.ENSOANP00000021753   | 268.1 |
| 255 | 9606 | 9606.ENSPO0000269305 | 321398  | 321398.ENSLCOP00000004510 | 267.7 |
| 256 | 9606 | 9606.ENSPO0000269305 | 10029   | 10029.G3GT84              | 266.9 |
| 257 | 9606 | 9606.ENSPO0000269305 | 8663    | 8663.ENSNSUP00000003328   | 264.6 |
| 258 | 9606 | 9606.ENSPO0000269305 | 7757    | 7757.ENSPMAP00000010479   | 258.1 |
| 259 | 9606 | 9606.ENSPO0000269305 | 32507   | 32507.ENSNBRP00000026855  | 257.7 |
| 260 | 9606 | 9606.ENSPO0000269305 | 9009    | 9009.A0A226MN96           | 255.4 |
| 261 | 9606 | 9606.ENSPO0000269305 | 7764    | 7764.ENSEBUP00000013202   | 251.9 |
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| 263 | 9606 | 9606.ENSPO0000269305 | 7739    | 7739.C3XPU2               | 230.3 |
| 264 | 9606 | 9606.ENSPO0000269305 | 9014    | 9014.A0A226P7S4           | 224.2 |
| 265 | 9606 | 9606.ENSPO0000269305 | 283909  | 283909.R7UHV7             | 209.1 |
| 266 | 9606 | 9606.ENSPO0000269305 | 6573    | 6573.A0A210QTK4           | 203.4 |
| 267 | 9606 | 9606.ENSPO0000269305 | 7719    | 7719.ENSCINP00000003956   | 200.7 |
| 268 | 9606 | 9606.ENSPO0000269305 | 37653   | 37653.A0A0L8G262          | 198.7 |
| 269 | 9606 | 9606.ENSPO0000269305 | 225164  | 225164.V4A869             | 194.5 |
| 270 | 9606 | 9606.ENSPO0000269305 | 6526    | 6526.A0A2C9K4K6           | 193.7 |
| 271 | 9606 | 9606.ENSPO0000269305 | 7574    | 7574.A0A1S3IK29           | 192.2 |
| 272 | 9606 | 9606.ENSPO0000269305 | 188477  | 188477.A0A433U4Z3         | 190.7 |
| 273 | 9606 | 9606.ENSPO0000269305 | 51511   | 51511.ENSCSAVP00000016940 | 185.7 |
| 274 | 9606 | 9606.ENSPO0000269305 | 10195   | 10195.A0A3M7Q6B9          | 184.5 |
| 275 | 9606 | 9606.ENSPO0000269305 | 7668    | 7668.W4XZV7               | 175.3 |
| 276 | 9606 | 9606.ENSPO0000269305 | 10228   | 10228.B3RZS6              | 162.2 |
| 277 | 9606 | 9606.ENSPO0000269305 | 46731   | 46731.A0A3M6T6Q0          | 161.8 |
| 278 | 9606 | 9606.ENSPO0000269305 | 287889  | 287889.A0A369SDE5         | 161.8 |
| 279 | 9606 | 9606.ENSPO0000269305 | 407821  | 407821.A0A087U4M0         | 159.5 |
| 280 | 9606 | 9606.ENSPO0000269305 | 50429   | 50429.A0A2B4RUK1          | 158.7 |
| 281 | 9606 | 9606.ENSPO0000269305 | 6832    | 6832.A0A553NYY4           | 153.3 |
| 282 | 9606 | 9606.ENSPO0000269305 | 307972  | 307972.A0A2G8L3N1         | 150.6 |
| 283 | 9606 | 9606.ENSPO0000269305 | 418985  | 418985.A0A1V9Y190         | 149.8 |
| 284 | 9606 | 9606.ENSPO0000269305 | 7070    | 7070.D7EJV6               | 144.1 |
| 285 | 9606 | 9606.ENSPO0000269305 | 45351   | 45351.A7S162              | 142.9 |
| 286 | 9606 | 9606.ENSPO0000269305 | 30538   | 30538.ENSVAP00000011479   | 137.5 |
| 287 | 9606 | 9606.ENSPO0000269305 | 6669    | 6669.E9FW11               | 135.2 |
| 288 | 9606 | 9606.ENSPO0000269305 | 6945    | 6945.B7QF52               | 134.0 |
| 289 | 9606 | 9606.ENSPO0000269305 | 6973    | 6973.A0A2P8XLZ2           | 134.0 |
| 290 | 9606 | 9606.ENSPO0000269305 | 400727  | 400727.A0A2T7PT95         | 131.0 |
| 291 | 9606 | 9606.ENSPO0000269305 | 35525   | 35525.A0A0P5UBN4          | 127.1 |
| 292 | 9606 | 9606.ENSPO0000269305 | 126957  | 126957.T1INQ8             | 124.4 |
| 293 | 9606 | 9606.ENSPO0000269305 | 7029    | 7029.J9JP39               | 123.2 |
| 294 | 9606 | 9606.ENSPO0000269305 | 121224  | 121224.E0V916             | 122.5 |
| 295 | 9606 | 9606.ENSPO0000269305 | 224129  | 224129.A0A1W4XBPO         | 121.7 |
| 296 | 9606 | 9606.ENSPO0000269305 | 136037  | 136037.A0A067QKS2         | 120.9 |
| 297 | 9606 | 9606.ENSPO0000269305 | 1661398 | 1661398.A0A482VJ27        | 120.9 |
| 298 | 9606 | 9606.ENSPO0000269305 | 6412    | 6412.T1EZJ4               | 120.2 |
| 299 | 9606 | 9606.ENSPO0000269305 | 121845  | 121845.A0A3Q0IPE1         | 113.6 |
| 300 | 9606 | 9606.ENSPO0000269305 | 543379  | 543379.A0A232FJ48         | 112.8 |
| 301 | 9606 | 9606.ENSPO0000269305 | 195883  | 195883.A0A482XMX2         | 110.2 |
| 302 | 9606 | 9606.ENSPO0000269305 | 7425    | 7425.K7IV69               | 109.8 |

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| 303 | 9606 | 9606.ENSPO0000269305 | 597456  | 597456.AOAOL7RJB6  | 108.6 |
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| 305 | 9606 | 9606.ENSPO0000269305 | 81824   | 81824.A9UZX3       | 106.7 |
| 306 | 9606 | 9606.ENSPO0000269305 | 568069  | 568069.AOA1J1HKW3  | 105.5 |
| 307 | 9606 | 9606.ENSPO0000269305 | 166423  | 166423.AOAON1IU42  | 105.1 |
| 308 | 9606 | 9606.ENSPO0000269305 | 178035  | 178035.AOA154PH19  | 105.1 |
| 309 | 9606 | 9606.ENSPO0000269305 | 94128   | 94128.AOA2A3EPF3   | 104.8 |
| 310 | 9606 | 9606.ENSPO0000269305 | 7460    | 7460.AOA088AGC6    | 104.4 |
| 311 | 9606 | 9606.ENSPO0000269305 | 268475  | 268475.AOA0V1H034  | 103.6 |
| 312 | 9606 | 9606.ENSPO0000269305 | 6337    | 6337.AOA0VOXWZ0    | 103.6 |
| 313 | 9606 | 9606.ENSPO0000269305 | 105785  | 105785.AOA2J7RT65  | 103.2 |
| 314 | 9606 | 9606.ENSPO0000269305 | 268474  | 268474.AOA0V1MEE0  | 102.4 |
| 315 | 9606 | 9606.ENSPO0000269305 | 13347   | 13347.AOA444TIG8   | 102.1 |
| 316 | 9606 | 9606.ENSPO0000269305 | 13249   | 13249.T1HHW8       | 101.3 |
| 317 | 9606 | 9606.ENSPO0000269305 | 70415   | 70415.AOA5S6Q6J5   | 100.5 |
| 318 | 9606 | 9606.ENSPO0000269305 | 990121  | 990121.AOA0VOZFM8  | 96.3  |
| 319 | 9606 | 9606.ENSPO0000269305 | 45882   | 45882.AOA0V1D8F8   | 95.5  |
| 320 | 9606 | 9606.ENSPO0000269305 | 92179   | 92179.AOA0VOWQ02   | 95.5  |
| 321 | 9606 | 9606.ENSPO0000269305 | 144512  | 144512.AOA0VOU5U4  | 95.5  |
| 322 | 9606 | 9606.ENSPO0000269305 | 667725  | 667725.AOA0LOG1F4  | 95.5  |
| 323 | 9606 | 9606.ENSPO0000269305 | 6335    | 6335.AOA0V1LDC9    | 95.5  |
| 324 | 9606 | 9606.ENSPO0000269305 | 610380  | 610380.E2B2V4      | 95.1  |
| 325 | 9606 | 9606.ENSPO0000269305 | 104421  | 104421.E2APG2      | 94.7  |
| 326 | 9606 | 9606.ENSPO0000269305 | 6689    | 6689.AOA3R7SPV9    | 94.7  |
| 327 | 9606 | 9606.ENSPO0000269305 | 7209    | 7209.AOA1I7VBH3    | 94.7  |
| 328 | 9606 | 9606.ENSPO0000269305 | 946362  | 946362.F2U8Q9      | 94.4  |
| 329 | 9606 | 9606.ENSPO0000269305 | 181606  | 181606.AOA0V0V4L8  | 93.6  |
| 330 | 9606 | 9606.ENSPO0000269305 | 92180   | 92180.AOA0V1P3X2   | 93.2  |
| 331 | 9606 | 9606.ENSPO0000269305 | 77166   | 77166.N6UG92       | 92.8  |
| 332 | 9606 | 9606.ENSPO0000269305 | 6336    | 6336.AOA0V0S9D5    | 92.0  |
| 333 | 9606 | 9606.ENSPO0000269305 | 42155   | 42155.AOA0R3QQH5   | 90.9  |
| 334 | 9606 | 9606.ENSPO0000269305 | 51028   | 51028.AOA0N4VCR4   | 90.5  |
| 335 | 9606 | 9606.ENSPO0000269305 | 456900  | 456900.AOA195C1G0  | 89.7  |
| 336 | 9606 | 9606.ENSPO0000269305 | 6334    | 6334.AOA0V1B7T2    | 89.7  |
| 337 | 9606 | 9606.ENSPO0000269305 | 7176    | 7176.B0W6K7        | 89.0  |
| 338 | 9606 | 9606.ENSPO0000269305 | 42156   | 42156.AOA3P7K7U3   | 88.2  |
| 339 | 9606 | 9606.ENSPO0000269305 | 46835   | 46835.AOA504YVH4   | 87.4  |
| 340 | 9606 | 9606.ENSPO0000269305 | 6183    | 6183.AOA3Q0KN56    | 87.4  |
| 341 | 9606 | 9606.ENSPO0000269305 | 6280    | 6280.AOA0N4TIF7    | 87.4  |
| 342 | 9606 | 9606.ENSPO0000269305 | 595528  | 595528.AOA0D2X0F0  | 86.3  |
| 343 | 9606 | 9606.ENSPO0000269305 | 6282    | 6282.AOA044R7Z7    | 86.3  |
| 344 | 9606 | 9606.ENSPO0000269305 | 6186    | 6186.AOA183JFI6    | 85.9  |
| 345 | 9606 | 9606.ENSPO0000269305 | 60517   | 60517.AOA158R7U3   | 85.1  |
| 346 | 9606 | 9606.ENSPO0000269305 | 1147741 | 1147741.AOA0R3RXLO | 85.1  |
| 347 | 9606 | 9606.ENSPO0000269305 | 6184    | 6184.AOA430QT47    | 84.7  |
| 348 | 9606 | 9606.ENSPO0000269305 | 102285  | 102285.AOA0R3TMT8  | 84.3  |
| 349 | 9606 | 9606.ENSPO0000269305 | 300112  | 300112.AOA4S2JFH1  | 84.3  |
| 350 | 9606 | 9606.ENSPO0000269305 | 278856  | 278856.AOA212FJ15  | 84.0  |
| 351 | 9606 | 9606.ENSPO0000269305 | 6182    | 6182.AOA4Z2CRH0    | 84.0  |
| 352 | 9606 | 9606.ENSPO0000269305 | 6211    | 6211.AOA087VYM5    | 84.0  |
| 353 | 9606 | 9606.ENSPO0000269305 | 6277    | 6277.AOA498SGZ8    | 84.0  |

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| 354 | 9606 | 9606.ENSPO0000269305 | 64791   | 64791.AOA151XH99   | 83.6 |
| 355 | 9606 | 9606.ENSPO0000269305 | 6185    | 6185.AOA095C5C5    | 83.2 |
| 356 | 9606 | 9606.ENSPO0000269305 | 6210    | 6210.W6U916        | 82.8 |
| 357 | 9606 | 9606.ENSPO0000269305 | 7160    | 7160.AOA182GIF0    | 82.8 |
| 358 | 9606 | 9606.ENSPO0000269305 | 7159    | 7159.Q171M1        | 81.6 |
| 359 | 9606 | 9606.ENSPO0000269305 | 53468   | 53468.AOAOR3U6F0   | 80.9 |
| 360 | 9606 | 9606.ENSPO0000269305 | 6293    | 6293.AOA1I8EB15    | 80.9 |
| 361 | 9606 | 9606.ENSPO0000269305 | 6205    | 6205.AOAOR3WQW6    | 80.5 |
| 362 | 9606 | 9606.ENSPO0000269305 | 79923   | 79923.AOA3R7GQP5   | 80.1 |
| 363 | 9606 | 9606.ENSPO0000269305 | 147828  | 147828.AOA4S2LLK3  | 80.1 |
| 364 | 9606 | 9606.ENSPO0000269305 | 6198    | 6198.AOA074ZCBO    | 80.1 |
| 365 | 9606 | 9606.ENSPO0000269305 | 6216    | 6216.AOAOR3S7X9    | 79.7 |
| 366 | 9606 | 9606.ENSPO0000269305 | 103372  | 103372.F4X756      | 79.0 |
| 367 | 9606 | 9606.ENSPO0000269305 | 2015173 | 2015173.AOA026WHR3 | 79.0 |
| 368 | 9606 | 9606.ENSPO0000269305 | 34720   | 34720.AOA195FHS0   | 78.6 |
| 369 | 9606 | 9606.ENSPO0000269305 | 37001   | 37001.AOA1A9W1P0   | 78.6 |
| 370 | 9606 | 9606.ENSPO0000269305 | 66420   | 66420.AOAON1PE05   | 77.8 |
| 371 | 9606 | 9606.ENSPO0000269305 | 168631  | 168631.AOA437B4Y2  | 77.8 |
| 372 | 9606 | 9606.ENSPO0000269305 | 520822  | 520822.AOA195B173  | 77.8 |
| 373 | 9606 | 9606.ENSPO0000269305 | 471704  | 471704.AOA195DK69  | 77.4 |
| 374 | 9606 | 9606.ENSPO0000269305 | 12957   | 12957.AOA158ND95   | 77.4 |
| 375 | 9606 | 9606.ENSPO0000269305 | 451379  | 451379.AOAON5B0J2  | 77.0 |
| 376 | 9606 | 9606.ENSPO0000269305 | 7398    | 7398.AOA1A9ZZR1    | 77.0 |
| 377 | 9606 | 9606.ENSPO0000269305 | 29172   | 29172.AOA0D8Y6I2   | 75.9 |
| 378 | 9606 | 9606.ENSPO0000269305 | 400682  | 400682.AOA1X7UD97  | 75.1 |
| 379 | 9606 | 9606.ENSPO0000269305 | 201502  | 201502.AOA1A9YB05  | 74.7 |
| 380 | 9606 | 9606.ENSPO0000269305 | 6265    | 6265.AOA0B2UVT7    | 74.3 |
| 381 | 9606 | 9606.ENSPO0000269305 | 37546   | 37546.AOA1B0G0N7   | 73.6 |
| 382 | 9606 | 9606.ENSPO0000269305 | 76193   | 76193.AOAONOPCE7   | 72.0 |
| 383 | 9606 | 9606.ENSPO0000269305 | 7395    | 7395.AOA1A9UZU7    | 72.0 |
| 384 | 9606 | 9606.ENSPO0000269305 | 62324   | 62324.AOA182RCW2   | 70.5 |
| 385 | 9606 | 9606.ENSPO0000269305 | 199890  | 199890.AOA182PA25  | 70.5 |
| 386 | 9606 | 9606.ENSPO0000269305 | 158441  | 158441.AOA226DFT1  | 70.1 |
| 387 | 9606 | 9606.ENSPO0000269305 | 69004   | 69004.AOA3F2YX69   | 69.3 |
| 388 | 9606 | 9606.ENSPO0000269305 | 43151   | 43151.W5JCA5       | 68.9 |
| 389 | 9606 | 9606.ENSPO0000269305 | 7167    | 7167.AOA182FR67    | 68.6 |
| 390 | 9606 | 9606.ENSPO0000269305 | 334426  | 334426.AOAOR3Q2A0  | 67.0 |
| 391 | 9606 | 9606.ENSPO0000269305 | 7102    | 7102.AOA2A4JNC2    | 67.0 |
| 392 | 9606 | 9606.ENSPO0000269305 | 139723  | 139723.AOA182M5Y6  | 66.6 |
| 393 | 9606 | 9606.ENSPO0000269305 | 6313    | 6313.AOAOKODP08    | 66.6 |
| 394 | 9606 | 9606.ENSPO0000269305 | 6290    | 6290.AOAON4W3M7    | 66.2 |
| 395 | 9606 | 9606.ENSPO0000269305 | 7168    | 7168.AOA182N4N0    | 65.9 |
| 396 | 9606 | 9606.ENSPO0000269305 | 41427   | 41427.AOA182J735   | 65.9 |
| 397 | 9606 | 9606.ENSPO0000269305 | 51031   | 51031.W2SWL6       | 65.5 |
| 398 | 9606 | 9606.ENSPO0000269305 | 53326   | 53326.AOA016WYV3   | 65.5 |
| 399 | 9606 | 9606.ENSPO0000269305 | 48709   | 48709.AOA1D2NAH9   | 65.1 |
| 400 | 9606 | 9606.ENSPO0000269305 | 7165    | 7165.F5HK78        | 65.1 |
| 401 | 9606 | 9606.ENSPO0000269305 | 7260    | 7260.B4N9F0        | 65.1 |
| 402 | 9606 | 9606.ENSPO0000269305 | 1518534 | 1518534.AOA182LFH4 | 65.1 |
| 403 | 9606 | 9606.ENSPO0000269305 | 74873   | 74873.AOA084W6W1   | 63.9 |
| 404 | 9606 | 9606.ENSPO0000269305 | 112268  | 112268.AOA182VY33  | 63.9 |

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| 405 | 9606 | 9606.ENSPO0000269305 | 30066  | 30066.AOA182V190  | 63.9 |
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| 407 | 9606 | 9606.ENSPO0000269305 | 42157  | 42157.AOA182ELX1  | 63.9 |
| 408 | 9606 | 9606.ENSPO0000269305 | 46245  | 46245.AOAOR3NKT4  | 63.2 |
| 409 | 9606 | 9606.ENSPO0000269305 | 29170  | 29170.AOA368F8M2  | 63.2 |
| 410 | 9606 | 9606.ENSPO0000269305 | 318479 | 318479.AOAON4UDB8 | 62.8 |
| 411 | 9606 | 9606.ENSPO0000269305 | 7234   | 7234.B4GZG1       | 62.4 |
| 412 | 9606 | 9606.ENSPO0000269305 | 30069  | 30069.AOA182Y7A0  | 61.6 |
| 413 | 9606 | 9606.ENSPO0000269305 | 43041  | 43041.AOA182K2G4  | 60.5 |
| 414 | 9606 | 9606.ENSPO0000269305 | 7217   | 7217.AOAOP8XYV2   | 59.3 |
| 415 | 9606 | 9606.ENSPO0000269305 | 7227   | 7227.FBpp0083753  | 58.5 |
| 416 | 9606 | 9606.ENSPO0000269305 | 7232   | 7232.AOA484BSX2   | 58.5 |
| 417 | 9606 | 9606.ENSPO0000269305 | 387005 | 387005.AOA183H0Z1 | 57.0 |
| 418 | 9606 | 9606.ENSPO0000269305 | 7222   | 7222.B4JSF4       | 57.0 |
| 419 | 9606 | 9606.ENSPO0000269305 | 7238   | 7238.B4HFA1       | 57.0 |
| 420 | 9606 | 9606.ENSPO0000269305 | 70667  | 70667.AOA183STT5  | 56.6 |
| 421 | 9606 | 9606.ENSPO0000269305 | 7370   | 7370.AOA1I8N839   | 56.6 |
| 422 | 9606 | 9606.ENSPO0000269305 | 35570  | 35570.AOA1I8QBH4  | 56.6 |
| 423 | 9606 | 9606.ENSPO0000269305 | 7091   | 7091.E9JEI4       | 56.2 |
| 424 | 9606 | 9606.ENSPO0000269305 | 27835  | 27835.AOAON4YQF9  | 55.1 |
| 425 | 9606 | 9606.ENSPO0000269305 | 7240   | 7240.B4R1C4       | 54.3 |
| 426 | 9606 | 9606.ENSPO0000269305 | 34690  | 34690.AOA182UJE7  | 53.5 |
| 427 | 9606 | 9606.ENSPO0000269305 | 7375   | 7375.AOA0LOCLI5   | 53.1 |
| 428 | 9606 | 9606.ENSPO0000269305 | 7266   | 7266.AOA3B0JRN9   | 52.0 |
| 429 | 9606 | 9606.ENSPO0000269305 | 30019  | 30019.AOA0M3QXK1  | 52.0 |
| 430 | 9606 | 9606.ENSPO0000269305 | 947166 | 947166.AOA1D1VBG3 | 51.6 |
| 431 | 9606 | 9606.ENSPO0000269305 | 7244   | 7244.B4MB49       | 51.2 |
| 432 | 9606 | 9606.ENSPO0000269305 | 54126  | 54126.H3FK89      | 50.8 |

... or you can specify the species of interest (i.e. all the blast hits):

```
> # get the homologs of the following two proteins in the mouse (i.e. species_id=10090)
> string_db$get_homologs_besthits(c(tp53, atm), target_species_id=10090)

X9606 X9606.ENSPO0000269305 X10090 X10090.ENSMUSP00000104298 X598.2
1 9606 9606.ENSPO0000278616 10090 10090.ENSMUSP00000156344 5328.8
```

## 6 CITATION

Please cite:

Szklarczyk D, Kirsch R, Koutrouli M, Nastou K, Mehryary F, Hachilif R, Annika GL, Fang T, Doncheva NT, Pyysalo S, Bork P, Jensen LJ, von Mering C. 'The STRING database in 2023: protein-protein association networks and functional enrichment analyses for any sequenced genome of interest.' *Nucleic Acids Res.* 2023 Jan 6;51(D1):D638-646