

## Unified Human Interactome

**UniHI search:** Users can enter gene or protein identifiers from different organisms to obtain physical and regulatory interaction partners in the human interactome. Results are displayed by the UniHI visualisation tool which offers multiple options to filter interactions (e.g. based on source of interactions or amount of evidence). Drug targets in the retrieved network can be easily highlighted and analysed. Expression data from the UniHI database or uploaded by the user can be employed to derive tissue-, process- or disease-specific networks. Tools for examining the functional relevance of molecular networks are also provided to the user.

**Choose organism for entered identifiers:**

Enter your gene or protein identifiers (up to max. 50) separated by any delimiter: comma, space, tab or newline (see an [example](#)). Search is also possible using wild card "\*" for gene symbols (see an [example](#)).

HUMAN ▾

RAG2, KPNA1, HIST3H3, UBE2D2, VPRBP,  
DDB1

**UniHI needs you!** Please let [us](#) know if you encounter error messages or if you have suggestions for additional UniHI features to help your network analysis.

Current UniHI Reference: [Nucleic Acids Research 2014 Database Issue](#)

Further publications describing UniHI and the integrated data: [Nucleic Acids Research 2009](#) | [Nucleic Acids Research 2007](#) | [Bioinformatics 2007](#) | [Nucleic Acids Research 2009](#) | [Methods in Molecular Biology 2012](#)

## UniHI Search Results:

Proteins **Physical Interactions** Regulatory Interactions Network

Check All Uncheck All

- Gene Symbol :** RAG2 **Description:** recombination activating gene 2 [Info](#)  
**Synonyms:** 5897, Q71UK1, P55895, ENSG00000175097, LRG\_99, Hs.714519, NM\_000536, NM\_001243785, NM\_001243786, RAG-2, NP\_001230715, NP\_001230714, NP\_000527, RAG-2, RAG-2,  
**EntGID:** 5897 | **UID:** Q71UK1 | **NGID:** 5933787 | **EnsGID:** ENSG00000175097 | **OMIM:** 179616 | **RefSeq ID:** NM\_000536  
**KEGG Pathways:** Primary immunodeficiency  

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[REACTOME](#)
- Gene Symbol :** KPNA1 **Description:** karyopherin alpha 1 (importin alpha 5) [Info](#)  
**Synonyms:** 3836, B3KWR2, P52294, Q5BKZ2, B3KXZ2, ENSG00000114030, Hs.161008, NM\_002264, NR\_026698, NPI-1, RCH2, SRP1, IPOA5, NP\_002255, IPOA5, IPOA5,  
**EntGID:** 3836 | **UID:** P52294 | **NGID:** 2583825 | **EnsGID:** ENSG00000114030 | **OMIM:** 600686 | **RefSeq ID:** NM\_002264  
**KEGG Pathways:** Influenza A  

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- Gene Symbol :** HIST3H3 **Description:** "histone cluster 3, H3" [Info](#)  
**Synonyms:** 8290, Q16695, ENSG00000168148, Hs.248171, NM\_003493, H3t, H3FT, H3/g, MGC126886, MGC126888, H3.4, NP\_003484, H3.4, H3.4,  
**EntGID:** 8290 | **UID:** Q16695 | **NGID:** 4504298 | **EnsGID:** ENSG00000168148 | **OMIM:** 602820 | **RefSeq ID:** NM\_003493  
**KEGG Pathways:** Systemic lupus erythematosus Alcoholism Transcriptional misregulation in cancer  

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- Gene Symbol :** UBE2D2 **Description:** "ubiquitin-conjugating enzyme E2D 2 (UBC4/5 homolog, yeast)" [Info](#)  
**Synonyms:** 7322, Q96RP6, P62837, ENSG00000131508, Hs.108332, NM\_003339, NM\_181838, PUBC1, UBC4, UBCH5B, UBC4/5, E2(17)KB2, NP\_003330, NP\_862821, E2(17)KB2, E2(17)KB2,  
**EntGID:** 7322 | **UID:** P62837 | **NGID:** 4507774 | **EnsGID:** ENSG00000131508 | **OMIM:** 602962 | **RefSeq ID:** NM\_003339  
**KEGG Pathways:** Ubiquitin mediated proteolysis Shigellosis Protein processing in endoplasmic reticulum  

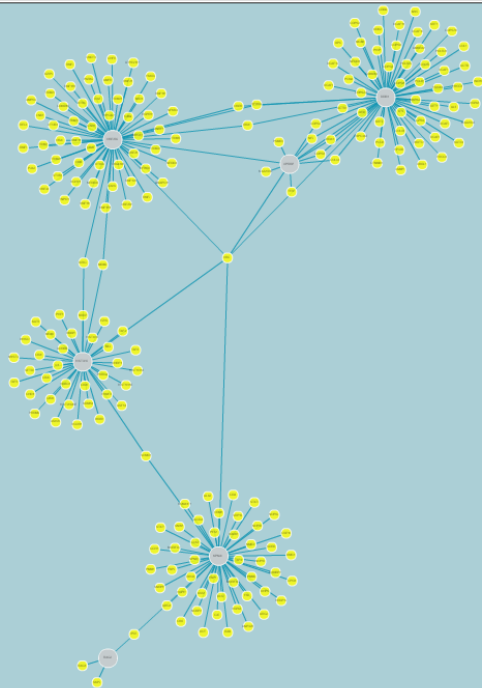
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- Gene Symbol :** VPRBP **Description:** Vpr (HIV-1) binding protein [Info](#)  
**Synonyms:** 9730, B3KN11, Q9Y4B6, ENSG00000260623, ENSG00000145041, Hs.716623, NM\_001171904, KIAA0800, MGC102804, DCAF1, NP\_055518, NP\_001165375, DCAF1, DCAF1,  
**EntGID:** 9730 | **UID:** Q9Y4B6 | **NGID:** 1384790 | **EnsGID:** ENSG00000145041 | **RefSeq ID:** NM\_001171904  

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- Gene Symbol :** DDB1 **Description:** "damage-specific DNA binding protein 1, 127kDa" [Info](#)  
**Synonyms:** 1642, B4DZP5, Q16531, B4DG00, B7Z859, B4DSA8, B7Z2A1, ENSG00000167986, Hs.290758, NM\_001923, UV-DDB1, XAP1, XPE, XPCE, DDBA, XPE-BF, NP\_001914, T08096, DDBA, DDBA,  
**EntGID:** 1642 | **UID:** Q16531 | **NGID:** 695361 | **EnsGID:** ENSG00000167986 | **OMIM:** 600045 | **RefSeq ID:** NM\_001923  
**KEGG Pathways:** Nucleotide excision repair Ubiquitin mediated proteolysis  

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## UniHI Search Results:

- [Proteins](#)
[Physical Interactions](#)
[Regulatory Interactions](#)
[Network](#)



**Filtering of Molecular Interactions** ?

- Filter by connectivity
- Filter by resource
- Filter by method of derivation
- Filter by scale of experiment
- Filter by minimum number of PubMed references
- Filter by type of interaction

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**Filtering and mapping of gene expression from DB**

**Filtering and mapping of own gene expression data**

**Filtering and mapping of Drug targets**

**Enrichment Analysis**

**Enriched Datasets and Phenotype Analysis**

**Map Your Genes**

**Export Network**

**Regulatory interactions**

**Interactions Between Partners**

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