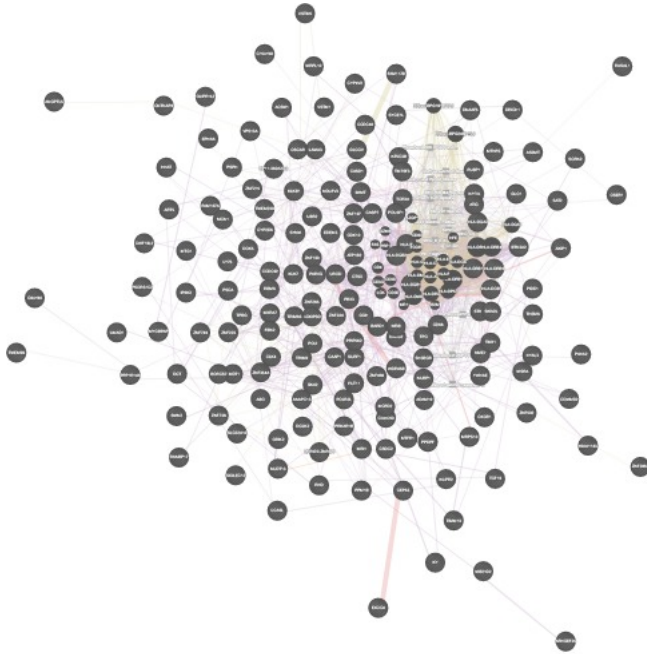


GeneMANIA report

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Application version : 3.6.0



Networks

- Consolidated-Pathways-2013
- InterPro
- Co-expression
- Physical Interactions
- Shared protein domains
- Predicted

Functions

N/A

Search parameters

Organism Homo sapiens (human)

Genes ENSG00000004534 , ENSG00000006042 , ENSG00000024048 , ENSG00000037757 ,
ENSG00000048544 , ENSG00000053747 , ENSG00000054219 , ENSG00000054392 ,
ENSG00000064115 , ENSG00000066855 , ENSG00000068745 , ENSG00000072682 ,
ENSG00000080166 , ENSG00000080224 , ENSG00000100147 , ENSG00000100197 ,
ENSG00000100505 , ENSG00000101134 , ENSG00000101751 , ENSG00000103274 ,
ENSG00000106415 , ENSG00000108953 , ENSG00000111344 , ENSG00000113240 ,
ENSG00000114744 , ENSG00000115705 , ENSG00000116406 , ENSG00000117593 ,
ENSG00000119242 , ENSG00000120159 , ENSG00000124767 , ENSG00000125534 ,
ENSG00000126088 , ENSG00000127995 , ENSG00000129055 , ENSG00000129226 ,
ENSG00000129244 , ENSG00000130193 , ENSG00000130413 , ENSG00000131558 ,
ENSG00000131845 , ENSG00000132305 , ENSG00000132823 , ENSG00000134809 ,
ENSG00000135074 , ENSG00000135747 , ENSG00000136371 , ENSG00000136449 ,
ENSG00000137310 , ENSG00000137563 , ENSG00000138032 , ENSG00000138363 ,
ENSG00000138376 , ENSG00000138439 , ENSG00000138829 , ENSG00000138964 ,
ENSG00000139921 , ENSG00000141295 , ENSG00000141504 , ENSG00000141519 ,
ENSG00000141580 , ENSG00000141698 , ENSG00000143156 , ENSG00000145029 ,
ENSG00000145476 , ENSG00000145725 , ENSG00000146242 , ENSG00000146733 ,
ENSG00000146842 , ENSG00000148290 , ENSG00000148824 , ENSG00000149054 ,
ENSG00000152404 , ENSG00000152492 , ENSG00000152910 , ENSG00000154319 ,
ENSG00000154328 , ENSG00000156968 , ENSG00000157578 , ENSG00000159111 ,
ENSG00000160194 , ENSG00000160284 , ENSG00000160886 , ENSG00000162613 ,
ENSG00000163807 , ENSG00000164344 , ENSG00000164418 , ENSG00000164818 ,
ENSG00000165621 , ENSG00000165806 , ENSG00000166275 , ENSG00000166321 ,
ENSG00000166436 , ENSG00000166452 , ENSG00000166503 , ENSG00000166743 ,
ENSG00000167081 , ENSG00000167311 , ENSG00000167641 , ENSG00000167653 ,
ENSG00000169035 , ENSG00000169085 , ENSG00000169131 , ENSG00000169609 ,
ENSG00000169629 , ENSG00000170390 , ENSG00000170909 , ENSG00000172346 ,
ENSG00000172687 , ENSG00000173421 , ENSG00000174611 , ENSG00000175164 ,
ENSG00000175170 , ENSG00000175806 , ENSG00000176125 , ENSG00000177595 ,
ENSG00000177700 , ENSG00000178386 , ENSG00000178882 , ENSG00000179344 ,
ENSG00000180398 , ENSG00000180481 , ENSG00000180611 , ENSG00000182093 ,
ENSG00000182253 , ENSG00000182534 , ENSG00000182923 , ENSG00000183172 ,
ENSG00000183303 , ENSG00000183891 , ENSG00000184999 , ENSG00000185290 ,
ENSG00000185324 , ENSG00000185437 , ENSG00000186230 , ENSG00000186283 ,
ENSG00000186448 , ENSG00000186470 , ENSG00000186792 , ENSG00000187010 ,
ENSG00000187151 , ENSG00000187595 , ENSG00000188191 , ENSG00000189068 ,
ENSG00000189269 , ENSG00000196126 , ENSG00000232629 , ENSG00000196653 ,
ENSG00000196968 , ENSG00000197020 , ENSG00000197969 , ENSG00000198502 ,
ENSG00000198951 , ENSG00000204351 , ENSG00000204531 , ENSG00000204538 ,
ENSG00000204604 , ENSG00000204764 , ENSG00000205078 , ENSG00000205302 ,

ENSG00000205571 , ENSG00000237541 , ENSG00000234745 , ENSG00000213214 ,
ENSG00000213672 , ENSG00000214376 , ENSG00000214435 , ENSG00000219545 ,
ENSG00000240053 , ENSG00000241106 , ENSG00000241043 , ENSG00000254521 ,
ENSG00000256043 , ENSG00000267508

Network Automatically selected weighting method
weighting

Networks **A**

Abu-Odeh-Aqeilan-2014 , Agrawal-Sedivy-2010 , Aichem-Groettrup-2012 , Albers-
Koegl-2005 , Alexandru-Deshaies-2008 , Alizadeh-Staudt-2000 , Andresen-Flores-
Morales-2014 , Arbuckle-Grant-2010 , Arroyo-Aloy-2014 , Arroyo-Aloy-2015

B

Bahr-Bowler-2013 , Bailey-Hieter-2015 , Bandyopadhyay-Ideker-2010 , Bantscheff-
Drewes-2011 , Barr-Knapp-2009 , Barrios-Rodiles-Wrana-2005 , Behrends-Harper-
2010 , Behzadnia-Lührmann-2007 , Bennett-Harper-2010 , Benzinger-Hermeking-
2005 , Berggård-James-2006 , Bett-Hay-2013 , Bhatnagar-Attie-2014 , Bild-Nevins-
2006 B , BIOGRID-SMALL-SCALE-STUDIES , BIOGRID-SMALL-SCALE-
STUDIES , Blandin-Richard-2013 , Blomen-Brummelkamp-2015 , Blomen-
Brummelkamp-2015 , Bogachek-Weigel-2014 , Boldrick-Relman-2002 , Bonacci-
Soubeyran-2014 , Bouwmeester-Supertti-Furga-2004 , Brajenovic-Drewes-2004 ,
Brehme-Supertti-Furga-2009 , Bruderer-Hay-2011 , Burington-Shaughnessy-2008 ,
Butland-Hayden-2014 , Byron-Humphries-2012

C

Cai-Conaway-2007 , Camargo-Brandon-2007 , Campos-Reinberg-2015 , Cao-
Chinnaiyan-2014 , Carmon-Liu-2014 , CELL_MAP , Chen-Brown-2002 , Chen-Ge-
2013 , Chen-Huang-2014 , Chen-Zhang-2013 , Christianson-Kopito-2011 , Cloutier-
Coulombe-2013 , Colland-Gauthier-2004 , Consolidated-Pathways-2013 , Corominas-
Iakoucheva-2014 , Couzens-Gingras-2013 , Cox-Rizzino-2013 , Coyaud-Raught-2015

D

Danielsen-Nielsen-2011 , Dart-Wells-2015 , de Hoog-Mann-2004 , Diner-Cristea-
2015 , Dobbin-Giordano-2005 , Drissi-Boisvert-2015 , Drug-interactions-2013 , Dyer-
Sobral-2010

E

Emanuele-Elledge-2011 , Emdal-Olsen-2015 , Ewing-Figeys-2007

F

Fenner-Prehn-2010 , Floyd-Pagliarini-2016 , Foerster-Ritter-2013 , Fogeron-Lange-
2013 , Foster-Marshall-2013 , Freibaum-Taylor-2010

G

Gabriel-Baumgrass-2016 , Galligan-Howley-2015 , Gao-Reinberg-2012 , Gautier-Hall-
2009 , Giannone-Liu-2010 , Glatte-Gstaiger-2009 , Gloeckner-Ueffing-2007 ,
Goehler-Wanker-2004 , Golebiowski-Hay-2009 , Goudreault-Gingras-2009 , Grant-

G

2010 , Greco-Cristea-2011 , Grossmann-Stelzl-2015 , Guarani-Harper-2014 , Gupta-Pelletier-2015

H

Hanson-Clayton-2014 , Hauri-Gstaiger-2013 , Havrylov-Redowicz-2009 , Havugimana-Emili-2012 , Hayes-Urbé-2012 , Hegele-Stelzl-2012 A , Hegele-Stelzl-2012 B , Hein-Mann-2015 , Hill-Livingston-2014 , HUMANCYC , Humphries-Humphries-2009 , Hutchins-Peters-2010 , Huttlin-Gygi-2015

I

I2D-BIND-Fly2Human , I2D-BIND-Mouse2Human , I2D-BIND-Rat2Human , I2D-BIND-Worm2Human , I2D-BIND-Yeast2Human , I2D-BioGRID-Fly2Human , I2D-BioGRID-Mouse2Human , I2D-BioGRID-Rat2Human , I2D-BioGRID-Worm2Human , I2D-BioGRID-Yeast2Human , I2D-Chen-Pawson-2009-PiwiScreen-Mouse2Human , I2D-Formstecher-Daviet-2005-Embryo-Fly2Human , I2D-Giot-Rothbert-2003-Low-Fly2Human , I2D-INNATEDB-Mouse2Human , I2D-IntAct-Fly2Human , I2D-IntAct-Mouse2Human , I2D-IntAct-Rat2Human , I2D-IntAct-Worm2Human , I2D-IntAct-Yeast2Human , I2D-Krogan-Greenblatt-2006-Core-Yeast2Human , I2D-Krogan-Greenblatt-2006-NonCore-Yeast2Human , I2D-Li-Vidal-2004-CORE-1-Worm2Human , I2D-Li-Vidal-2004-non-core-Worm2Human , I2D-Manual-Mouse2Human , I2D-Manual-Rat2Human , I2D-MGI-Mouse2Human , I2D-MINT-Fly2Human , I2D-MINT-Mouse2Human , I2D-MINT-Rat2Human , I2D-MINT-Worm2Human , I2D-MINT-Yeast2Human , I2D-Ptacek-Snyder-2005-Yeast2Human , I2D-Tarassov-PCA-Yeast2Human , I2D-Tewari-Vidal-2004-TGFb-Worm2Human , I2D-vonMering-Bork-2002-High-Yeast2Human , I2D-vonMering-Bork-2002-Low-Yeast2Human , I2D-vonMering-Bork-2002-Medium-Yeast2Human , I2D-Wang-Orkin-2006-ESmplx-Mouse2Human , I2D-Wang-Orkin-2006-ESmplxlow-Mouse2Human , I2D-Yu-Vidal-2008-GoldStd-Yeast2Human , IMID , Ingham-Pawson-2005 , Innocenti-Brown-2011 , INTERPRO , InterPro , IREF-BIND , IREF-BIOGRID , IREF-DIP , IREF-HPRD , IREF-INTACT , IREF-MATRIXDB , IREF-MPPI , IREF-PUBMED , IREF-SMALL-SCALE-STUDIES , IREF-SMALL-SCALE-STUDIES

J

Jeronimo-Coulombe-2007 , Jin-Pawson-2004 , Johnson-Kerner-Wichterle-2015 , Johnson-Shoemaker-2003 , Jones-MacBeath-2006 , Joshi-Cristea-2013 , Jäger-Krogan-2011

K

Kahle-Zoghbi-2011 , Kaltenbach-Hughes-2007 , Katsogiannou-Rocchi-2014 , Kim-Gygi-2011 , Kim-Major-2015 , Kneissl-Grummt-2003 , Koch-Hermeking-2007 , Kotlyar-Jurisica-2015 , Kristensen-Foster-2012 , Kärblane-Sarmiento-2015 , Kırılı-Görlich-2015

L

L

Lambert-Gingras-2015 , Lamoliatte-Thibault-2014 , Lau-Ronai-2012 , Lee-Songyang-2011 , Lehner-Sanderson-2004 A , Lehner-Sanderson-2004 B , Leng-Wang-2014 , Leung-Jones-2014 , Li-Chen-2015 , Li-Dorf-2011 A , Li-Dorf-2011 B , Li-Dorf-2014 , Li-Haura-2013 , Lim-Zoghbi-2006 , Lin-Smith-2010 , Lipp-Guthrie-2015 , Liu-Wang-2012 , Llères-Lamond-2010 , Loch-Strickler-2012 , Low-Heck-2014 , Lu-Zhang-2013 , Luo-Elledge-2009

M

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N

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Oliviero-Cagney-2015 , Olma-Pintard-2009 , Oláh-Ovádi-2011 , Oshikawa-Nakayama-2012 , Ouyang-Gill-2009

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Panigrahi-Pati-2012 , Papp-Lamia-2015 , Perez-Hernandez-Yáñez-Mó-2013 , Perou-Botstein-1999 , Perou-Botstein-2000 , Persaud-Rotin-2009 , Petschnigg-Stagljar-2014 , PFAM , Phillips-Corn-2013 , Pichlmair-Supert-Furga-2011 , Pichlmair-Supert-Furga-2012 , Pilot-Storck-Goillot-2010 , Povlsen-Choudhary-2012

R

Ramachandran-LaBaer-2004 , Raman-Harper-2015 , Ramaswamy-Golub-2001 , Ravasi-Hayashizaki-2010 , REACTOME , Reinke-Keating-2013 , Reyniers-Taymans-2014 , Richter-Chrzanowska-Lightowlers-2010 , Rieger-Chu-2004 , Rolland-Vidal-2014 , Rosenwald-Staudt-2001 , Roth-Zlotnik-2006 , Roux-Burke-2012 , Rowbotham-Mermoud-2011 , Roy-Pardo-2014 , Roy-Parent-2013 , Rual-Vidal-2005 A , Rual-Vidal-2005 B

S

Sang-Jackson-2011 , Sato-Conaway-2004 , Schadt-Shoemaker-2004 , Scholz-Taylor-2016 , Singh-Moore-2012 , Smirnov-Cheung-2009 , So-Colwill-2015 , Soler-López-Aloy-2011 , Sowa-Harper-2009 , Stehling-Lill-2012 , Stehling-Lill-2013 , Stelzl-Wanker-2005 , Stes-Gevaert-2014 , Stuart-Kim-2003 , Suter-Wanker-2013

T

Taipale-Lindquist-2012 , Taipale-Lindquist-2014 , Takahashi-Conaway-2011 , Tarallo-Weisz-2011 , Tatham-Hay-2011 , Teixeira-Gomes-2010 , Thalappilly-Duseti-

T

2008 , Thompson-Luchansky-2014 , Tong-Moran-2014 , Toyoshima-Grandori-2012 ,
Transcriptional-factor-targets-2013 , Tsai-Cristea-2012

U

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V

van Wijk-Timmers-2009 , Vandamme-Angrand-2011 , Varjosalo-Gstaiger-2013 ,
Varjosalo-Supertti-Furga-2013 , Venkatesan-Vidal-2009 , Vermeulen-Mann-2010 ,
Vinayagam-Wanker-2011 , Virok-Fülöp-2011 , Vizeacoumar-Moffat-2013

W

Wagner-Choudhary-2011 , Wallach-Kramer-2013 , Wan-Emili-2015 , Wang-Balch-
2006 , Wang-Cheung-2015 , Wang-He-2008 , Wang-Maris-2006 , Wang-Xu-2015 ,
Wang-Yang-2011 , Weimann-Stelzl-2013 A , Weimann-Stelzl-2013 B , Weinmann-
Meister-2009 , Wen-Wu-2014 , Whisenant-Salomon-2015 , Wilker-Yaffe-2007 ,
Willingham-Muchowski-2003 , Witt-Labeit-2008 , Wong-O'Bryan-2012 , Woods-
Monteiro-2012 , Woodsmith-Sanderson-2012 , Wu-Garvey-2007 , Wu-Li-2007 , Wu-
Ma-2012 , Wu-Stein-2010 , Wu-Stein-2010

X

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Y

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Z

Zanon-Pichler-2013 , Zhang-Shang-2006 , Zhang-Zou-2011 , Zhao-Krug-2005 , Zhao-
Yang-2011 , Zhou-Conrads-2004 , Zhou-Hanemann-2016

Genes

| Gene | Description | Rank |
|-------------------|--|-------------|
| GVQW1 | GVQW motif containing 1 [Source:HGNC Symbol;Acc:HGNC:31424] | N/A |
| ZNF738 | zinc finger protein 738 [Source:HGNC Symbol;Acc:HGNC:32469] | N/A |
| ZNF670- ZNF695 | ZNF670-ZNF695 readthrough (NMD candidate) [Source:HGNC Symbol;Acc:HGNC:49200] | N/A |
| VSTM5 | V-set and transmembrane domain containing 5 [Source:HGNC Symbol;Acc:HGNC:34443] | N/A |
| VSTM1 | V-set and transmembrane domain containing 1 [Source:HGNC Symbol;Acc:HGNC:29455] | N/A |
| UFSP1 | UFM1-specific peptidase 1 (inactive) [Source:HGNC Symbol;Acc:HGNC:33821] | N/A |
| ZNF385C | zinc finger protein 385C [Source:HGNC Symbol;Acc:HGNC:33722] | N/A |
| RGPD8 | RANBP2-like and GRIP domain containing 8 [Source:HGNC Symbol;Acc:HGNC:9849] | N/A |
| FAM182B | family with sequence similarity 182 member B [Source:HGNC Symbol;Acc:HGNC:34503] | N/A |
| GLIPR1L2 | GLI pathogenesis-related 1 like 2 [Source:HGNC Symbol;Acc:HGNC:28592] | N/A |
| KIAA1143 | KIAA1143 [Source:HGNC Symbol;Acc:HGNC:29198] | N/A |
| ARHGEF35 | Rho guanine nucleotide exchange factor 35 [Source:HGNC Symbol;Acc:HGNC:33846] | N/A |
| NUPR2 | nuclear protein 2, transcriptional regulator [Source:HGNC Symbol;Acc:HGNC:44164] | N/A |
| C8orf46 | chromosome 8 open reading frame 46 [Source:HGNC Symbol;Acc:HGNC:28498] | N/A |
| FAM101A | family with sequence similarity 101 member A [Source:HGNC Symbol;Acc:HGNC:27051] | N/A |
| LY6G5B | lymphocyte antigen 6 complex, locus G5B [Source:HGNC Symbol;Acc:HGNC:13931] | N/A |
| C15orf40 | chromosome 15 open reading frame 40 [Source:HGNC Symbol;Acc:HGNC:28443] | N/A |
| NEIL2 | nei like DNA glycosylase 2 [Source:HGNC Symbol;Acc:HGNC:18956] | N/A |
| UMAD1 | UBAP1-MVB12-associated (UMA) domain containing 1 [Source:HGNC Symbol;Acc:HGNC:48955] | N/A |
| CCDC36 | coiled-coil domain containing 36 [Source:HGNC Symbol;Acc:HGNC: | N/A |

| Gene | Description | Rank |
|-------------|---|-------------|
| | 27945] | |
| ZNF285 | zinc finger protein 285 [Source:HGNC Symbol;Acc:HGNC:13079] | N/A |
| MPV17L | MPV17 mitochondrial inner membrane protein like [Source:HGNC Symbol;Acc:HGNC:26827] | N/A |
| FAM117B | family with sequence similarity 117 member B [Source:HGNC Symbol;Acc:HGNC:14440] | N/A |
| LY6K | lymphocyte antigen 6 complex, locus K [Source:HGNC Symbol;Acc:HGNC:24225] | N/A |
| TTC32 | tetratricopeptide repeat domain 32 [Source:HGNC Symbol;Acc:HGNC:32954] | N/A |
| SMN2 | survival of motor neuron 2, centromeric [Source:HGNC Symbol;Acc:HGNC:11118] | N/A |
| CCDC50 | coiled-coil domain containing 50 [Source:HGNC Symbol;Acc:HGNC:18111] | N/A |
| CYP4V2 | cytochrome P450 family 4 subfamily V member 2 [Source:HGNC Symbol;Acc:HGNC:23198] | N/A |
| KY | kyphoscoliosis peptidase [Source:HGNC Symbol;Acc:HGNC:26576] | N/A |
| ZNF468 | zinc finger protein 468 [Source:HGNC Symbol;Acc:HGNC:33105] | N/A |
| EPHA6 | EPH receptor A6 [Source:HGNC Symbol;Acc:HGNC:19296] | N/A |
| SIGLEC12 | sialic acid binding Ig like lectin 12 (gene/pseudogene) [Source:HGNC Symbol;Acc:HGNC:15482] | N/A |
| MB21D2 | Mab-21 domain containing 2 [Source:HGNC Symbol;Acc:HGNC:30438] | N/A |
| ANGPTL5 | angiopoietin like 5 [Source:HGNC Symbol;Acc:HGNC:19705] | N/A |
| ZNF100 | zinc finger protein 100 [Source:HGNC Symbol;Acc:HGNC:12880] | N/A |
| EXOC4 | exocyst complex component 4 [Source:HGNC Symbol;Acc:HGNC:30389] | N/A |
| FAM167A | family with sequence similarity 167 member A [Source:HGNC Symbol;Acc:HGNC:15549] | N/A |
| CNTNAP4 | contactin associated protein like 4 [Source:HGNC Symbol;Acc:HGNC:18747] | N/A |
| TCF19 | transcription factor 19 [Source:HGNC Symbol;Acc:HGNC:11629] | N/A |
| ZNF749 | zinc finger protein 749 [Source:HGNC Symbol;Acc:HGNC:32783] | N/A |
| MYCBPAP | MYCBP associated protein [Source:HGNC Symbol;Acc:HGNC:19677] | N/A |
| CCDC40 | coiled-coil domain containing 40 [Source:HGNC Symbol;Acc:HGNC:26090] | N/A |

| Gene | Description | Rank |
|-------------|---|-------------|
| SMDT1 | single-pass membrane protein with aspartate rich tail 1 [Source:HGNC Symbol;Acc:HGNC:25055] | N/A |
| SLC22A10 | solute carrier family 22 member 10 [Source:HGNC Symbol;Acc:HGNC:18057] | N/A |
| FUT11 | fucosyltransferase 11 [Source:HGNC Symbol;Acc:HGNC:19233] | N/A |
| LCA5L | LCA5L, lebercilin like [Source:HGNC Symbol;Acc:HGNC:1255] | N/A |
| PIDD1 | p53-induced death domain protein 1 [Source:HGNC Symbol;Acc:HGNC:16491] | N/A |
| P4HA2 | prolyl 4-hydroxylase subunit alpha 2 [Source:HGNC Symbol;Acc:HGNC:8547] | N/A |
| DCLK2 | doublecortin like kinase 2 [Source:HGNC Symbol;Acc:HGNC:19002] | N/A |
| AS3MT | arsenite methyltransferase [Source:HGNC Symbol;Acc:HGNC:17452] | N/A |
| STK33 | serine/threonine kinase 33 [Source:HGNC Symbol;Acc:HGNC:14568] | N/A |
| CCDC134 | coiled-coil domain containing 134 [Source:HGNC Symbol;Acc:HGNC:26185] | N/A |
| PSORS1C2 | psoriasis susceptibility 1 candidate 2 [Source:HGNC Symbol;Acc:HGNC:17199] | N/A |
| SCRN2 | secernin 2 [Source:HGNC Symbol;Acc:HGNC:30381] | N/A |
| MRPL10 | mitochondrial ribosomal protein L10 [Source:HGNC Symbol;Acc:HGNC:14055] | N/A |
| SPATC1L | spermatogenesis and centriole associated 1-like [Source:HGNC Symbol;Acc:HGNC:1298] | N/A |
| MTHFS | 5,10-methenyltetrahydrofolate synthetase (5-formyltetrahydrofolate cyclo-ligase) [Source:HGNC Symbol;Acc:HGNC:7437] | N/A |
| AKIP1 | A-kinase interacting protein 1 [Source:HGNC Symbol;Acc:HGNC:1170] | N/A |
| MRI1 | methylthioribose-1-phosphate isomerase 1 [Source:HGNC Symbol;Acc:HGNC:28469] | N/A |
| OXGR1 | oxoglutarate receptor 1 [Source:HGNC Symbol;Acc:HGNC:4531] | N/A |
| ZNF502 | zinc finger protein 502 [Source:HGNC Symbol;Acc:HGNC:23718] | N/A |
| OSCAR | osteoclast associated, immunoglobulin-like receptor [Source:HGNC Symbol;Acc:HGNC:29960] | N/A |
| DRICH1 | aspartate rich 1 [Source:HGNC Symbol;Acc:HGNC:28031] | N/A |
| NDUFV3 | NADH:ubiquinone oxidoreductase subunit V3 [Source:HGNC Symbol;Acc:HGNC:7719] | N/A |
| TMEM209 | transmembrane protein 209 [Source:HGNC Symbol;Acc:HGNC: | N/A |

| Gene | Description | Rank |
|-------------|--|-------------|
| | 21898] | |
| BORCS7 | BLOC-1 related complex subunit 7 [Source:HGNC Symbol;Acc:HGNC:23516] | N/A |
| COMMD2 | COMM domain containing 2 [Source:HGNC Symbol;Acc:HGNC:24993] | N/A |
| CWF19L2 | CWF19-like 2, cell cycle control (<i>S. pombe</i>) [Source:HGNC Symbol;Acc:HGNC:26508] | N/A |
| ZNF215 | zinc finger protein 215 [Source:HGNC Symbol;Acc:HGNC:13007] | N/A |
| PSPH | phosphoserine phosphatase [Source:HGNC Symbol;Acc:HGNC:9577] | N/A |
| RHD | Rh blood group D antigen [Source:HGNC Symbol;Acc:HGNC:10009] | N/A |
| DCT | dopachrome tautomerase [Source:HGNC Symbol;Acc:HGNC:2709] | N/A |
| OR5P2 | olfactory receptor family 5 subfamily P member 2 [Source:HGNC Symbol;Acc:HGNC:14783] | N/A |
| MSRA | methionine sulfoxide reductase A [Source:HGNC Symbol;Acc:HGNC:7377] | N/A |
| GRIK2 | glutamate ionotropic receptor kainate type subunit 2 [Source:HGNC Symbol;Acc:HGNC:4580] | N/A |
| TMEM98 | transmembrane protein 98 [Source:HGNC Symbol;Acc:HGNC:24529] | N/A |
| GLCCI1 | glucocorticoid induced 1 [Source:HGNC Symbol;Acc:HGNC:18713] | N/A |
| RASAL1 | RAS protein activator like 1 [Source:HGNC Symbol;Acc:HGNC:9873] | N/A |
| ZNF304 | zinc finger protein 304 [Source:HGNC Symbol;Acc:HGNC:13505] | N/A |
| MRPS10 | mitochondrial ribosomal protein S10 [Source:HGNC Symbol;Acc:HGNC:14502] | N/A |
| NICN1 | nicolin 1 [Source:HGNC Symbol;Acc:HGNC:18317] | N/A |
| ART5 | ADP-ribosyltransferase 5 [Source:HGNC Symbol;Acc:HGNC:24049] | N/A |
| IP6K2 | inositol hexakisphosphate kinase 2 [Source:HGNC Symbol;Acc:HGNC:17313] | N/A |
| ACSM1 | acyl-CoA synthetase medium-chain family member 1 [Source:HGNC Symbol;Acc:HGNC:18049] | N/A |
| MXRA7 | matrix remodeling associated 7 [Source:HGNC Symbol;Acc:HGNC:7541] | N/A |
| NT5C3B | 5'-nucleotidase, cytosolic IIIB [Source:HGNC Symbol;Acc:HGNC:28300] | N/A |
| THEM6 | thioesterase superfamily member 6 [Source:HGNC Symbol;Acc:HGNC:29656] | N/A |
| HYAL3 | hyaluronoglucosaminidase 3 [Source:HGNC Symbol;Acc:HGNC:5322] | N/A |

| Gene | Description | Rank |
|-------------|---|-------------|
| RANBP17 | RAN binding protein 17 [Source:HGNC Symbol;Acc:HGNC:14428] | N/A |
| NUDT13 | nudix hydrolase 13 [Source:HGNC Symbol;Acc:HGNC:18827] | N/A |
| ABO | ABO blood group (transferase A, alpha 1-3-N-acetylgalactosaminyltransferase; transferase B, alpha 1-3-galactosyltransferase) [Source:HGNC Symbol;Acc:HGNC:79] | N/A |
| OSER1 | oxidative stress responsive serine rich 1 [Source:HGNC Symbol;Acc:HGNC:16105] | N/A |
| ZNF223 | zinc finger protein 223 [Source:HGNC Symbol;Acc:HGNC:13016] | N/A |
| PSCA | prostate stem cell antigen [Source:HGNC Symbol;Acc:HGNC:9500] | N/A |
| TM7SF3 | transmembrane 7 superfamily member 3 [Source:HGNC Symbol;Acc:HGNC:23049] | N/A |
| LY75 | lymphocyte antigen 75 [Source:HGNC Symbol;Acc:HGNC:6729] | N/A |
| HHAT | hedgehog acyltransferase [Source:HGNC Symbol;Acc:HGNC:18270] | N/A |
| TIMM10 | translocase of inner mitochondrial membrane 10 homolog (yeast) [Source:HGNC Symbol;Acc:HGNC:11814] | N/A |
| VPS13A | vacuolar protein sorting 13 homolog A [Source:HGNC Symbol;Acc:HGNC:1908] | N/A |
| NME7 | NME/NM23 family member 7 [Source:HGNC Symbol;Acc:HGNC:20461] | N/A |
| PRKAR1B | protein kinase cAMP-dependent type I regulatory subunit beta [Source:HGNC Symbol;Acc:HGNC:9390] | N/A |
| CYP2D6 | cytochrome P450 family 2 subfamily D member 6 [Source:HGNC Symbol;Acc:HGNC:2625] | N/A |
| SAT2 | spermidine/spermine N1-acetyltransferase family member 2 [Source:HGNC Symbol;Acc:HGNC:23160] | N/A |
| PPP1R14A | protein phosphatase 1 regulatory inhibitor subunit 14A [Source:HGNC Symbol;Acc:HGNC:14871] | N/A |
| TOR3A | torsin family 3 member A [Source:HGNC Symbol;Acc:HGNC:11997] | N/A |
| KLKB1 | kallikrein B1 [Source:HGNC Symbol;Acc:HGNC:6371] | N/A |
| SYCE1L | synaptonemal complex central element protein 1 like [Source:HGNC Symbol;Acc:HGNC:37236] | N/A |
| EDEM3 | ER degradation enhancing alpha-mannosidase like protein 3 [Source:HGNC Symbol;Acc:HGNC:16787] | N/A |
| MTFR1 | mitochondrial fission regulator 1 [Source:HGNC Symbol;Acc:HGNC:29510] | N/A |
| TRIM9 | tripartite motif containing 9 [Source:HGNC Symbol;Acc:HGNC:16288] | N/A |

| Gene | Description | Rank |
|-------------|---|-------------|
| ZNF197 | zinc finger protein 197 [Source:HGNC Symbol;Acc:HGNC:12988] | N/A |
| MTG1 | mitochondrial ribosome associated GTPase 1 [Source:HGNC Symbol;Acc:HGNC:32159] | N/A |
| CDK10 | cyclin dependent kinase 10 [Source:HGNC Symbol;Acc:HGNC:1770] | N/A |
| KLK7 | kallikrein related peptidase 7 [Source:HGNC Symbol;Acc:HGNC:6368] | N/A |
| CSDC2 | cold shock domain containing C2 [Source:HGNC Symbol;Acc:HGNC:30359] | N/A |
| PPM1B | protein phosphatase, Mg ²⁺ /Mn ²⁺ dependent 1B [Source:HGNC Symbol;Acc:HGNC:9276] | N/A |
| FBN2 | fibrillin 2 [Source:HGNC Symbol;Acc:HGNC:3604] | N/A |
| POLR2L | polymerase (RNA) II subunit L [Source:HGNC Symbol;Acc:HGNC:9199] | N/A |
| ANAPC13 | anaphase promoting complex subunit 13 [Source:HGNC Symbol;Acc:HGNC:24540] | N/A |
| CLK4 | CDC like kinase 4 [Source:HGNC Symbol;Acc:HGNC:13659] | N/A |
| LAMA3 | laminin subunit alpha 3 [Source:HGNC Symbol;Acc:HGNC:6483] | N/A |
| MCFD2 | multiple coagulation factor deficiency 2 [Source:HGNC Symbol;Acc:HGNC:18451] | N/A |
| SH3BGR | SH3 domain binding glutamate rich protein [Source:HGNC Symbol;Acc:HGNC:10822] | N/A |
| BTN3A2 | butyrophilin subfamily 3 member A2 [Source:HGNC Symbol;Acc:HGNC:1139] | N/A |
| PPDPF | pancreatic progenitor cell differentiation and proliferation factor [Source:HGNC Symbol;Acc:HGNC:16142] | N/A |
| CASD1 | CAS1 domain containing 1 [Source:HGNC Symbol;Acc:HGNC:16014] | N/A |
| UROD | uroporphyrinogen decarboxylase [Source:HGNC Symbol;Acc:HGNC:12591] | N/A |
| TPBG | trophoblast glycoprotein [Source:HGNC Symbol;Acc:HGNC:12004] | N/A |
| DNAAF5 | dynein (axonemal) assembly factor 5 [Source:HGNC Symbol;Acc:HGNC:26013] | N/A |
| PARVG | parvin gamma [Source:HGNC Symbol;Acc:HGNC:14654] | N/A |
| NCKIPSD | NCK interacting protein with SH3 domain [Source:HGNC Symbol;Acc:HGNC:15486] | N/A |
| FUBP1 | far upstream element binding protein 1 [Source:HGNC Symbol;Acc:HGNC:4004] | N/A |

| Gene | Description | Rank |
|---------------|--|-------------|
| NAGA | alpha-N-acetylgalactosaminidase [Source:HGNC Symbol;Acc:HGNC:7631] | N/A |
| ADAM19 | ADAM metallopeptidase domain 19 [Source:HGNC Symbol;Acc:HGNC:197] | N/A |
| SNX2 | sorting nexin 2 [Source:HGNC Symbol;Acc:HGNC:11173] | N/A |
| CTSO | cathepsin O [Source:HGNC Symbol;Acc:HGNC:2542] | N/A |
| TMX1 | thioredoxin related transmembrane protein 1 [Source:HGNC Symbol;Acc:HGNC:15487] | N/A |
| CCDC92 | coiled-coil domain containing 92 [Source:HGNC Symbol;Acc:HGNC:29563] | N/A |
| CEP63 | centrosomal protein 63 [Source:HGNC Symbol;Acc:HGNC:25815] | N/A |
| DARS2 | aspartyl-tRNA synthetase 2, mitochondrial [Source:HGNC Symbol;Acc:HGNC:25538] | N/A |
| ZNF354A | zinc finger protein 354A [Source:HGNC Symbol;Acc:HGNC:11628] | N/A |
| CD68 | CD68 molecule [Source:HGNC Symbol;Acc:HGNC:1693] | N/A |
| RP11-382A20.3 | Hepatoma-derived growth factor-related protein 3 [Source:UniProtKB/Swiss-Prot;Acc:Q9Y3E1] | N/A |
| GLO1 | glyoxalase I [Source:HGNC Symbol;Acc:HGNC:4323] | N/A |
| SURF1 | surfeit 1 [Source:HGNC Symbol;Acc:HGNC:11474] | N/A |
| POLI | polymerase (DNA) iota [Source:HGNC Symbol;Acc:HGNC:9182] | N/A |
| ATP1B2 | ATPase Na ⁺ /K ⁺ transporting subunit beta 2 [Source:HGNC Symbol;Acc:HGNC:805] | N/A |
| TRIM66 | tripartite motif containing 66 [Source:HGNC Symbol;Acc:HGNC:29005] | N/A |
| SYNM | synemin [Source:HGNC Symbol;Acc:HGNC:24466] | N/A |
| DOK5 | docking protein 5 [Source:HGNC Symbol;Acc:HGNC:16173] | N/A |
| WDR45B | WD repeat domain 45B [Source:HGNC Symbol;Acc:HGNC:25072] | N/A |
| IMMT | inner membrane mitochondrial protein [Source:HGNC Symbol;Acc:HGNC:6047] | N/A |
| UBR2 | ubiquitin protein ligase E3 component n-recognin 2 [Source:HGNC Symbol;Acc:HGNC:21289] | N/A |
| POU5F1 | POU class 5 homeobox 1 [Source:HGNC Symbol;Acc:HGNC:9221] | N/A |
| NUBP1 | nucleotide binding protein 1 [Source:HGNC Symbol;Acc:HGNC:8041] | N/A |
| WRB | tryptophan rich basic protein [Source:HGNC Symbol;Acc:HGNC:12790] | N/A |
| PPIP5K2 | diphosphoinositol pentakisphosphate kinase 2 [Source:HGNC Symbol; | N/A |

| Gene | Description | Rank |
|-------------|--|-------------|
| | Acc:HGNC:29035] | |
| GGH | gamma-glutamyl hydrolase [Source:HGNC Symbol;Acc:HGNC:4248] | N/A |
| CAAP1 | caspase activity and apoptosis inhibitor 1 [Source:HGNC Symbol;Acc:HGNC:25834] | N/A |
| SKIV2L | Ski2 like RNA helicase [Source:HGNC Symbol;Acc:HGNC:10898] | N/A |
| PBX3 | PBX homeobox 3 [Source:HGNC Symbol;Acc:HGNC:8634] | N/A |
| CASP7 | caspase 7 [Source:HGNC Symbol;Acc:HGNC:1508] | N/A |
| YWHAE | tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein epsilon [Source:HGNC Symbol;Acc:HGNC:12851] | N/A |
| RBM6 | RNA binding motif protein 6 [Source:HGNC Symbol;Acc:HGNC:9903] | N/A |
| ATIC | 5-aminoimidazole-4-carboxamide ribonucleotide formyltransferase/IMP cyclohydrolase [Source:HGNC Symbol;Acc:HGNC:794] | N/A |
| TPO | thyroid peroxidase [Source:HGNC Symbol;Acc:HGNC:12015] | N/A |
| BARD1 | BRCA1 associated RING domain 1 [Source:HGNC Symbol;Acc:HGNC:952] | N/A |
| HLA-B | major histocompatibility complex, class I, B [Source:HGNC Symbol;Acc:HGNC:4932] | N/A |
| HLA-DQB2 | major histocompatibility complex, class II, DQ beta 2 [Source:HGNC Symbol;Acc:HGNC:4945] | N/A |
| HLA-DOB | major histocompatibility complex, class II, DO beta [Source:HGNC Symbol;Acc:HGNC:4937] | N/A |
| HLA-DQA2 | major histocompatibility complex, class II, DQ alpha 2 [Source:HGNC Symbol;Acc:HGNC:4943] | N/A |
| HLA-DRB5 | major histocompatibility complex, class II, DR beta 5 [Source:HGNC Symbol;Acc:HGNC:4953] | N/A |
| HLA-DQB1 | major histocompatibility complex, class II, DQ beta 1 [Source:HGNC Symbol;Acc:HGNC:4944] | N/A |
| HLA-DRB1 | major histocompatibility complex, class II, DR beta 1 [Source:HGNC Symbol;Acc:HGNC:4948] | N/A |
| HLA-DRB3 | major histocompatibility complex, class II, DR beta 3 [Source:HGNC Symbol;Acc:HGNC:4951] | 1 |
| HLA-DRB4 | major histocompatibility complex, class II, DR beta 4 [Source:HGNC Symbol;Acc:HGNC:4952] | 2 |
| HLA-DPB1 | major histocompatibility complex, class II, DP beta 1 [Source:HGNC Symbol;Acc:HGNC:4940] | 3 |
| HLA-DMB | major histocompatibility complex, class II, DM beta [Source:HGNC | 4 |

| Gene | Description | Rank |
|-------------------|---|------|
| | Symbol;Acc:HGNC:4935] | |
| XXbac-BPG246D15.9 | | 5 |
| HLA-DQA1 | major histocompatibility complex, class II, DQ alpha 1 [Source:HGNC Symbol;Acc:HGNC:4942] | 6 |
| HLA-DRA | major histocompatibility complex, class II, DR alpha [Source:HGNC Symbol;Acc:HGNC:4947] | 7 |
| HLA-DPA1 | major histocompatibility complex, class II, DP alpha 1 [Source:HGNC Symbol;Acc:HGNC:4938] | 8 |
| XXbac-BPG181M17.5 | | 9 |
| HLA-DMA | major histocompatibility complex, class II, DM alpha [Source:HGNC Symbol;Acc:HGNC:4934] | 10 |
| HLA-DOA | major histocompatibility complex, class II, DO alpha [Source:HGNC Symbol;Acc:HGNC:4936] | 11 |
| HLA-F | major histocompatibility complex, class I, F [Source:HGNC Symbol;Acc:HGNC:4963] | 12 |
| HLA-C | major histocompatibility complex, class I, C [Source:HGNC Symbol;Acc:HGNC:4933] | 13 |
| HLA-A | major histocompatibility complex, class I, A [Source:HGNC Symbol;Acc:HGNC:4931] | 14 |
| HLA-G | major histocompatibility complex, class I, G [Source:HGNC Symbol;Acc:HGNC:4964] | 15 |
| HLA-E | major histocompatibility complex, class I, E [Source:HGNC Symbol;Acc:HGNC:4962] | 16 |
| CD3E | CD3e molecule [Source:HGNC Symbol;Acc:HGNC:1674] | 17 |
| CD4 | CD4 molecule [Source:HGNC Symbol;Acc:HGNC:1678] | 18 |
| LCK | LCK proto-oncogene, Src family tyrosine kinase [Source:HGNC Symbol;Acc:HGNC:6524] | 19 |
| CD3G | CD3g molecule [Source:HGNC Symbol;Acc:HGNC:1675] | 20 |
| CD3D | CD3d molecule [Source:HGNC Symbol;Acc:HGNC:1673] | 21 |
| HFE | hemochromatosis [Source:HGNC Symbol;Acc:HGNC:4886] | 22 |
| MR1 | major histocompatibility complex, class I-related [Source:HGNC Symbol;Acc:HGNC:4975] | 23 |
| FCGRT | Fc fragment of IgG receptor and transporter [Source:HGNC Symbol;Acc:HGNC:3621] | 24 |
| AZGP1 | alpha-2-glycoprotein 1, zinc-binding [Source:HGNC Symbol;Acc: | 25 |

| Gene | Description | Rank |
|-------------|---|-------------|
| | HGNC:910] | |
| GZMB | granzyme B [Source:HGNC Symbol;Acc:HGNC:4709] | 26 |
| PRF1 | perforin 1 [Source:HGNC Symbol;Acc:HGNC:9360] | 27 |
| B2M | beta-2-microglobulin [Source:HGNC Symbol;Acc:HGNC:914] | 28 |
| CD80 | CD80 molecule [Source:HGNC Symbol;Acc:HGNC:1700] | 29 |
| FAS | Fas cell surface death receptor [Source:HGNC Symbol;Acc:HGNC:11920] | 30 |

Networks

| | |
|---|--------|
| Consolidated-Pathways-2013 | 46.15% |
| Autoimmune thyroid disease | 6.74% |
| Translocation of ZAP-70 to ... | 6.60% |
| Phosphorylation of CD3 and ... | 5.39% |
| PD-1 signaling | 4.93% |
| Allograft rejection | 4.19% |
| Graft-versus-host disease | 3.92% |
| Type I diabetes mellitus | 3.60% |
| Asthma | 3.07% |
| Interferon gamma signaling | 2.97% |
| Generation of second messenger ... | 2.80% |
| Downstream TCR signaling | 1.93% |
| InterPro | 36.58% |
| MHC_II_b_N | 16.44% |
| Ig/MHC_CS | 7.26% |
| MHC_I/II-like_Ag-recog | 6.82% |
| Ig_C1-set | 6.06% |
| Co-expression | 13.20% |
| Mallon-McKay-2013 | 2.25% |
| StemCellDB: the human pluripotent stem cell database at the National Institutes of Health. Mallon et al (2013). <i>Stem Cell Res</i> Co-expression with 585,265 interactions from GEO | |
| Chen-Brown-2002 | 1.62% |
| Gene expression patterns in human liver cancers. Chen et al (2002). <i>Mol Biol Cell</i> Co-expression with 282,241 interactions from supplementary material | |
| Noble-Diehl-2008 | 1.60% |
| Regional variation in gene expression in the healthy colon is dysregulated in ulcerative colitis. Noble et al (2008). <i>Gut</i> Co-expression with 661,539 interactions from GEO | |
| Rosenwald-Staudt-2001 | 1.25% |
| Relation of gene expression phenotype to immunoglobulin mutation genotype in B cell chronic lymphocytic leukemia. Rosenwald et al (2001). <i>J Exp Med</i> Co-expression with 114,694 interactions from supplementary material | |

| Co-expression | 13.20% |
|---|---------------|
| Wang-Cheung-2015 | 1.17% |
| Genetic variation in insulin-induced kinase signaling. Wang et al (2015). <i>Mol Syst Biol</i> | |
| Co-expression with 411,047 interactions from GEO | |
| Alizadeh-Staudt-2000 | 0.90% |
| Distinct types of diffuse large B-cell lymphoma identified by gene expression profiling. Alizadeh et al (2000). <i>Nature</i> | |
| Co-expression with 90,336 interactions from supplementary material | |
| Burington-Shaughnessy-2008 | 0.89% |
| Tumor cell gene expression changes following short-term in vivo exposure to single agent chemotherapeutics are related to survival in multiple myeloma. Burington et al (2008). <i>Clin Cancer Res</i> | |
| Co-expression with 290,538 interactions from GEO | |
| Smirnov-Cheung-2009 | 0.87% |
| Genetic analysis of radiation-induced changes in human gene expression. Smirnov et al (2009). <i>Nature</i> | |
| Co-expression with 461,500 interactions from GEO | |
| Bahr-Bowler-2013 | 0.71% |
| Peripheral blood mononuclear cell gene expression in chronic obstructive pulmonary disease. Bahr et al (2013). <i>Am J Respir Cell Mol Biol</i> | |
| Co-expression with 274,949 interactions from GEO | |
| Perou-Botstein-2000 | 0.52% |
| Molecular portraits of human breast tumours. Perou et al (2000). <i>Nature</i> | |
| Co-expression with 185,068 interactions from supplementary material | |
| Bild-Nevins-2006 B | 0.49% |
| Oncogenic pathway signatures in human cancers as a guide to targeted therapies. Bild et al (2006). <i>Nature</i> | |
| Co-expression with 280,683 interactions from GEO | |
| Innocenti-Brown-2011 | 0.43% |
| Identification, replication, and functional fine-mapping of expression quantitative trait loci in primary human liver tissue. Innocenti et al (2011). <i>PLoS Genet</i> | |
| Co-expression with 603,765 interactions from GEO | |
| Wu-Garvey-2007 | 0.36% |
| The effect of insulin on expression of genes and biochemical pathways in human skeletal muscle. Wu et al (2007). <i>Endocrine</i> | |
| Co-expression with 267,109 interactions from GEO | |
| Dobbin-Giordano-2005 | 0.11% |
| Interlaboratory comparability study of cancer gene expression analysis using oligonucleotide microarrays. Dobbin et al (2005). <i>Clin Cancer Res</i> | |
| Co-expression with 444,931 interactions from GEO | |
| Wang-Maris-2006 | 0.03% |
| Integrative genomics identifies distinct molecular classes of neuroblastoma and shows that multiple genes are targeted by regional alterations in DNA copy number. Wang et al (2006). <i>Cancer Res</i> | |
| Co-expression with 264,023 interactions from GEO | |
| Physical Interactions | 3.49% |
| Camargo-Brandon-2007 | 1.55% |

| | |
|---|--------------|
| Physical Interactions | 3.49% |
| Camargo-Brandon-2007 | |
| Disrupted in Schizophrenia 1 Interactome: evidence for the close connectivity of risk genes and a potential synaptic basis for schizophrenia. Camargo et al (2007). <i>Mol Psychiatry</i> | |
| Physical Interactions with 267 interactions from iRefIndex | |
| Woods-Monteiro-2012 | 0.62% |
| Charting the landscape of tandem BRCT domain-mediated protein interactions. Woods et al (2012). <i>Sci Signal</i> | |
| Physical Interactions with 919 interactions from iRefIndex | |
| Oliviero-Cagney-2015 | 0.60% |
| The variant Polycomb Repressor Complex 1 component PCGF1 interacts with a pluripotency sub-network that includes DPPA4, a regulator of embryogenesis. Oliviero et al (2015). <i>Sci Rep</i> | |
| Physical Interactions with 675 interactions from BioGRID | |
| Huttlin-Gygi-2015 | 0.45% |
| The BioPlex Network: A Systematic Exploration of the Human Interactome. Huttlin et al (2015). <i>Cell</i> | |
| Physical Interactions with 23,399 interactions from BioGRID | |
| IREF-HPRD | 0.20% |
| Physical Interactions with 34,206 interactions from iRefIndex | |
| IREF-SMALL-SCALE-STUDIES | 0.07% |
| Physical Interactions with 71,996 interactions from iRefIndex | |
| Shared protein domains | 0.40% |
| INTERPRO | 0.40% |
| Shared protein domains with 608,863 interactions from InterPro | |
| Predicted | 0.19% |
| Stuart-Kim-2003 | 0.19% |
| A gene-coexpression network for global discovery of conserved genetic modules. Stuart et al (2003). <i>Science</i> | |
| Predicted with 24,872 interactions from supplementary material | |