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| --- | --- | --- | --- | --- | --- | --- |
| **node1** | **node2** | **node1 accession** | **node2 accession** | **node1 annotation** | **node2 annotation** | **score** |
| FAM13A | HHIP | ENSP00000264344 | ENSP00000296575 | Family with sequence similarity 13, member A | Hedgehog interacting protein; Modulates hedgehog signaling in several cell types including brain and lung through direct interaction with members of the hedgehog family | 0.53 |
| FAM13A | IREB2 | ENSP00000264344 | ENSP00000258886 | Family with sequence similarity 13, member A | Iron-responsive element binding protein 2; RNA-binding protein that binds to iron-responsive elements (IRES), which are stem-loop structures found in the 5’- UTR of ferritin, and delta aminolevulinic acid synthase mRNAs, and in the 3’-UTR of transferrin receptor mRNA. Binding to the IRE element in ferritin results in the repression of its mRNA translation. Binding of the protein to the transferrin receptor mRNA inhibits the degradation of this otherwise rapidly degraded mRNA | 0.53 |
| FAM13A | MMP1 | ENSP00000264344 | ENSP00000322788 | Family with sequence similarity 13, member A | Matrix metallopeptidase 1 (interstitial collagenase); Cleaves collagens of types I, II, and III at one site in the helical domain. Also cleaves collagens of types VII and X. In case of HIV infection, interacts and cleaves the secreted viral Tat protein, leading to a decrease in neuronal Tat’s mediated neurotoxicity | 0.42 |
| GPX5 | GSTO2 | ENSP00000392398 | ENSP00000345023 | Glutathione peroxidase 5 (epididymal androgen-related protein); Protects cells and enzymes from oxidative damage, by catalyzing the reduction of hydrogen peroxide, lipid peroxides and organic hydroperoxide, by glutathione. May constitute a glutathione peroxidase-like protective system against peroxide damage in sperm membrane lipids | Glutathione S-transferase omega 2; Exhibits glutathione-dependent thiol transferase activity. Has high dehydroascorbate reductase activity and may contribute to the recycling of ascorbic acid. Participates in the biotransformation of inorganic arsenic and reduces monomethylarsonic acid (MMA) | 0.93 |
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| MMP1 | FAM13A | ENSP00000322788 | ENSP00000264344 | Matrix metallopeptidase 1 (interstitial collagenase); Cleaves collagens of types I, II, and III at one site in the helical domain. Also cleaves collagens of types VII and X. In case of HIV infection, interacts and cleaves the secreted viral Tat protein, leading to a decrease in neuronal Tat’s mediated neurotoxicity | Family with sequence similarity 13, member A | 0.42 |
| MMP1 | TIMP1 | ENSP00000322788 | ENSP00000218388 | Matrix metallopeptidase 1 (interstitial collagenase); Cleaves collagens of types I, II, and III at one site in the helical domain. Also cleaves collagens of types VII and X. In case of HIV infection, interacts and cleaves the secreted viral Tat protein, leading to a decrease in neuronal Tat’s mediated neurotoxicity | TIMP metallopeptidase inhibitor 1; Metalloproteinase inhibitor that functions by forming one to one complexes with target metalloproteinases, such as collagenases, and irreversibly inactivates them by binding to their catalytic zinc cofactor. Acts on MMP1, MMP2, MMP3, MMP7, MMP8, MMP9, MMP10, MMP11, MMP12, MMP13 and MMP16. Does not act on MMP14. Also functions as a growth factor that regulates cell differentiation, migration and cell death and activates cellular signaling cascades via CD63 and ITGB1. Plays a role in integrin signaling. Mediates erythropoiesis in vitro; but, unlike IL3, [...] | 1 |
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