



Group 5 main functional clusters

- Ribonucleoside monophosphate metabolism
L2hgdh, Rdh13, Thns1l, Nudt15, Paics, Gart, Mthfd1, Pank4, Dpyd, Pcmt1, Cyb5r1, Slc28a2, Amd2, Amd1, Srr, Prps2, Prps1
- Cardiac muscle cell contraction
Hey2, Cacnb2, Camk2g, Scn5a, Gpd1l, Abcc9, Dsg2, Kcnj12, Kcnj2, Fgf13, Kcnn2
- Mixed, incl. nucleoid, and regulation of mitochondrial translation
Grsf1, Mterf4, Fastkd1, Ptcd1, Gtpbp10, Fastkd2, Mtpap, Mterf3, Mterf2, Ttc33, Fastkd5
- BTB and C-terminal Kelch
Cul2, Wwp1, Senp8, Cul3, Dcun1d2, Btbd1, Dcun1d4, Klhl15, Ociad1, Klhl23, Kbtbd4
- Vesicle tethering involved in exocytosis
Tbc1d4, Rab10, Myo5b, Rab21, Snap29, Rab14, Exoc8, Exoc7, Exoc3, Exoc6, Rilpl1
- Cysteine-type deubiquitinase activity
Usp13, Usp14, Jostd1, Ecpas, Usp10, Ublcp1, Usp15, Ubl4a, Katnal1, Ppp6r2
- mRNA surveillance pathway
Ppp2r2a, Ppp2ca, Ppp2r3c, Ppp2r5c, Ccng1, Fgfr1op2, Fgfr1op, Ppp2r3a, Ppp2r5e
- Mitochondrial translation
Mrpl1, Eif1ax, Mtrf1l, Ptcd3, Mtif2, Mrpl35, Mtif3, Mrrf, Tarsl2
- Complex I biogenesis
Ndufaf4, mt-Nd4, mt-Nd3, mt-Nd2, mt-Nd6, mt-Nd5, mt-Nd4l, Tmem186
- Propanoate metabolism
Hibch, Abat, Acox1, Acadsb, Echdc1, Aldh6a1, Acs11, Acacb

Group 6 main functional clusters

- Autophagy - animal
Mtor, Rb1cc1, Nbr1, Ulk2, Fyco1, Stx17, Atg9a, Rptor, Pik3r4, Prkaa2, Fnip1, Bmt2, Tecpr2, Pfkfb2
- Histone H3 acetylation
Spen, Ep300, Ncoa2, Kat6b, Rora, Ncoa6, Kat6a, Jade1, Prdm2, Prox1, Jmy
- Nucleocytoplasmic carrier activity
Cse1l, Xpo7, Xpo5, Kpna6, Tnp01, Xpo4, Kpna3, Kpna4, Ipo11, Tmem64
- Thyroid hormone signalling pathway
Med1, Med13l, Med13, Rarb, Med23, Med14, Thrb, Ncoa1, Med12l, Fam120b
- U2-type spliceosomal complex, and spliceosomal complex
Sf3a1, Prpf18, Rnpc3, Srrm2, Prpf8, Ddx46, Snrnp200, Dhx36, Prpf4b
- Dystrophin-associated glycoprotein complex
Itga7, Lama5, Dag1, Dtna, Sspn, Sgcl, Sgcd, Fktn, Large1
- Mixed, incl. ECM-receptor interaction, and cell-extracellular matrix interactions
Vcl, Flnb, Fermt2, Tln2, Itga1, Lims1, Cttna3, Cd28
- Clathrin-dependent endocytosis
Itsn2, Epn2, Trim23, Arl5a, Fcho2, Chrm2, Fnbp1l
- Cardiac muscle cell development
Actn2, Ttn, Myo18b, Neb1, Obscn, Rbm20, Myom1
- Cul3-RING ubiquitin ligase complex
Spopl, Kbtbd8, Klhl9, Kbtbd7, Klhl20, Klhl13, Klhl11