



Group 9 main functional clusters

- Cytoplasmic translation
Tsen2, Stambp, Psmc4, Rpl23a, Psmc7, Psmc1, Psmc5, Rps12, Nhp2, Efl1, Rpp38, Mrto4, Pa2g4, Psma3, Psmc11, Rack1, Rpl19, Eif3g, Eif3b, Psma7, Psmc1, Eif4a1, Drg1, Psma5, Psmc4, Psmc2, Lsg1, Gtpbp4, Nob1, Fcf1, Ftsj3, Ltv1, Ngdn, Ddx18, Bud23, Prmt1, Eif4b, Eif3h, Exosc1, Rpl10a, Rpl13a, Rpl22, Rpl17, Rpl37, Rpl18a, Rpl21, Rpl27a, Rpl23, Rpl34, Rpl14, Fbl, Rpl32, Rpl4, Lyar, Mak16, Nsa2, Pes1, Rps11, Exosc9, Zc3h15, Fam207a, Sbds, Mettl27, Ptma, Sec61b, Eif3j2, Ubb, Habb4, Btf3, Ppia, Eif3a, Rrp7a, Utp11, Rpl36a, Rplp1, Rplp2, Rpl29, Mrpl33, Rpl10, Rps9, Rps27, Rps25, Rps23, Rps14, Rps24, Rps19, Rpl5, Rps6, Rps26, Rps4x, Rps28, Rpl12, Rps27a, Rps18, Rps8, Fau, Rps16, Rps29, Rpl28, Rps5, Pop4, Psmc8, Tsr2, Hif3a, Axin1, Ccdc92, Psmc10, Psmb1, Vwa7, Serf2, Llph, Larp1, Rnf181, Ube2e2, Mindy1, Uchl1, Esd, Ccdc86, Pop7, Cnksr1, Ccdc149
- Mixed, incl. preribosome, and ribosome biogenesis
Kri1, Mybbp1a, Aatf, Wdr46, Dcaf13, Utp14a, Gpatch4, Nop14, Pinx1, Abt1, Mphosph10, Utp3, Znhit6, Gar1, Ddx50, Rbm34, Nop58, Resf1, Rnf17
- Precatalytic spliceosome, and U4/U6 x U5 tri-snRNP complex
Prpf31, Cwc27, Ddx23, Cwc22, Rbm2, Sf3a3, Htatsf1, Snrnp35, Thumpd1, Rbm17, Slc25a14, Upf3a
- Chemokine receptors bind chemokines
Tmsb4x, Cxcl2, Spp1, Serpinb6a, Timp1, Serpine1, Edn1, Timp3, Ccl17, Mif, Prg4, Pf4
- Glutathione metabolism
Nqo1, Cyb5r3, Osgin1, Gss, Ephx1, Gm3776, Gsta1, Gsr, Srxn1, Gclm, Txndc12
- Aryl hydrocarbon receptor signalling
Hsp90ab1, Fkbp1a, Ppp3ca, Dnajb6, Tmem59l, H1f2, Fkbp1, Aip
- Mitophagy - animal
Becn1, Bcl2l1, Atg3, Bnip3, Uvrag, Dnajc14, Bcl2l2, Gabarapl1
- Amino acids regulate mTORC1
Atp6v1f, Castor1, Rragc, Atp6v0e2, Atp6v0d2, Atp6v0e, Atp6v0d1
- Vesicle fusion with vacuole
Chmp1a, Zfyve19, Hgs, Chmp4b, Chmp5, Chmp3
- S-100/ICaBP type calcium binding domain
S100a6, Csrp1, Fxyd5, Ahnak, Crip1, S100a13

Group 10 main functional clusters

- Tight junction assembly
Cdh1, Krt17, Crb3, Wwc1, Foxa1, Foxa2, Tjp3, Cldn2, Ephb2, Krt7, Cldn4, Cd24a, Krt19, Cldn3, Krt8, Krt18, Cldn1
- Phase I - Functionalization of compounds
Aldh1a1, Cyp2f2, Fmo3, Cbr2, Cyp4f15, Cyp2a5, Aox3, Mgst2, Cyp2s1, Cyp2e1, Fmo1, Aldh3b2, Chac1
- CoA-ligase activity
Acsl5, Slc25a1, Acat2, Aacs, Pcx, Acss2, Acox2, Acaa1b, Acss3, Thrsp
- Axonemal dynein complex, and inner dynein arm assembly
Ccdc103, Ppil6, Ccdc39, Rsph9, Rsph1, Drc1, Drc3, Dnajb13, Ropn11
- Tektin, and establishment of left/right asymmetry
Efhc1, Cfap52, Fhad1, Ccdc180, Dlec1, Ribc1, Lrrc23, Tekt4, Cfap45
- Inner dynein arm
Pih1d2, Dnah2, Dnah6, Cfap43, Dnah10, Dnah12, Cfap58
- Myosin II complex, and mesenchyme migration
Cnn1, Mylk, Tagln, Lmod1, Myh11, Spire2, Tnnt3
- Adrenaline,noradrenaline inhibits insulin secretion
Vpreb3, Gng3, Gnai1, Adra2a, Hcar1, Htr1b
- Wnt, and frizzled/secreted frizzled-related protein
Wnt2, Sfrp4, Wnt10b, Wnt16, Gpc3, Tbx4
- Mixed, incl. surface film, and alveolar lamellar body
Scgb1a1, Sftpb, Scgb3a2, Ager, Sec14l3, Gprc5a