

Table S1 Central nodes by Cytoscape MCODE plus

Cluster	Score (Density*#Nodes)	Nodes	Edges	Node IDs
1	16.333	19	147	<i>SGOL2, KPNA2, KIF20B, CENPE, DEPDC1B, ECT2, MAD2L1, HMMR, NCAPG, GMNN, CCNA2, DLGAP5, GTSE1, DEPDC1, CENPK, CCNB1, CHEK1, CASC5, PLK4</i>
2	7.778	10	35	<i>DEPDC5, ATP6V1G2, ATP6V1B2, ATP5G3, ATP6V1B1, PPA2, CCDC115, FNIP1, ATP6V1C2, ATP5L2</i>
3	7.714	15	54	<i>FANCD2, GEN1, HIST1H4F, WRN, HDAC7, POLD3, HIST1H2AC, NBN, HIST1H1E, HIST1H2AJ, HIST1H2AI, HIST1H1B, HIST1H2BM, HIST1H2AE, HIST1H3J</i>
4	6.667	7	20	<i>CD1A, CD1B, IL5, IL7, CCRL2, CCL19, IL13</i>
5	6.462	14	42	<i>CPT2, UTP18, TFB1M, NOP14, DHX15, TRMT61B, PPARGC1A, UTP15, RIOK2, SLC27A6, MAK16, CPT1C, FABP4, ACADM</i>
6	5.556	10	25	<i>HSPA9, TNPO1, PSMA5, RPL17, NUP54, CCT2, TUBA1C, KPNB1, ETF1, UBE2I</i>
7	4	4	6	<i>BNIP2, BOC, CDON, MAPK12</i>
8	4	4	6	<i>SEMA5B, THSD7B, POFUT2, ADAMTS16</i>
9	4	4	6	<i>NAT2, NAT1, CYP1A1, UGT3A2</i>
10	3.882	18	33	<i>COX11, COX4I2, FASTKD2, NGRN, CLINT1, FASTKD1, COX18, AP2B1, KCNQ5, CHCHD4, LRPPRC, SDHD, AP2M1, BMP2K, GRPEL2, TEFM, DLAT, RPUSD4</i>
11	3.692	14	24	<i>PKP2, ANK2, LDB3, SNAI1, CLDN9, ESAM, NEXN, FGF12, CLDN11, BGLAP, GJA1, PLEC, MMP17, CTNNB1</i>
12	3.6	16	27	<i>SLC39A8, KIF1A, SLC30A9, CAV1, CACNA1C, PTGER3, PRKAR2A, MAP2, CAMK2B, GABRD, GNGT1, GLRB, ADCY5, GNG7, CLCC1, SLC30A5</i>
13	3.5	17	28	<i>CDKN1C, FZD3, CDIPT, XRCC6, PHF21A, WNT7B, DVL3, CCND3, CCNG1, WNT7A, SACM1L, ATAD5, PI4K2B, PRRT2, WHSC1, MTMR4, PI4K2A</i>
14	3.333	4	5	<i>HEXB, A4GALT, MAN2A1, GLB1</i>
15	3	3	3	<i>HSD17B4, DECR1, HADH</i>
16	3	3	3	<i>HS3ST1, GLCE, EXTL1</i>
17	3	3	3	<i>HACL1, IDE, BAAT</i>
18	3	5	6	<i>AK7, NAMPT, WARS, ADSL, DCK</i>
19	3	3	3	<i>FNBP1, ATG4B, FNBP1L</i>
20	3	3	3	<i>ASB6, CCDC181, TSPAN9</i>
21	2.667	7	8	<i>CNOT10, PDE12, MRPL16, CNOT6, MRPS35, MRPS27, CNOT7</i>
22	2.5	13	15	<i>COPS4, VHL, G3BP2, USO1, MCCC2, SENP8, TMED7, CDKN2A, SUCLG2, TWIST1, SPTBN5, OXCT1, UBA3</i>