

Supplementary Table 2

#	Annotation	ln(Bayes factor)	p value	Genes
1	GO:0006412 [6]: protein biosynthesis	31.81	1.40906E-05	EIF2B2 MKNK1 MRPL16 MRPL30 MRPL48 MRPS25 RPL10A RPL12 RPL15 RPL18 RPL26 RPL26L1 RPL31 RPL35 RPL36 RPL37 RPL39L RPL7A RPS10 RPS17 RPS3
2	GO:0009059 [5]: macromolecule biosynthesis	29.61	1.40906E-05	EIF2B2 MKNK1 MRPL16 MRPL30 MRPL48 MRPS25 RPL10A RPL12 RPL15 RPL18 RPL26 RPL26L1 RPL31 RPL35 RPL36 RPL37 RPL39L RPL7A RPS10 RPS17 RPS3
3	GO:0044249 [5]: cellular biosynthesis	22.82	1.40906E-05	EIF2B2 MKNK1 MRPL16 MRPL30 MRPL48 MRPS25 QTRT1 RPL10A RPL12 RPL15 RPL18 RPL26 RPL26L1 RPL31 RPL35 RPL36 RPL37 RPL39L RPL7A RPS10 RPS17 RPS3
4	GO:0009058 [4]: biosynthesis	21.89	1.40906E-05	EIF2B2 MKNK1 MRPL16 MRPL30 MRPL48 MRPS25 QTRT1 RPL10A RPL12 RPL15 RPL18 RPL26 RPL26L1 RPL31 RPL35 RPL36 RPL37 RPL39L RPL7A RPS10 RPS17 RPS3
5	GO:0043170 [4]: macromolecule metabolism	9.99	1.40906E-05	CLPX EIF2B2 LIPT1 MKNK1 MRPL16 MRPL30 MRPL48 MRPS25 PTPN1 RNF130 RPL10A RPL12 RPL15 RPL18 RPL26 RPL26L1 RPL31 RPL35 RPL36 RPL37 RPL39L RPL7A RPS10 RPS17 RPS3 SPAM1 TALDO1 UBE2V1 ZNF313
6	GO:0044267 [6]: cellular protein metabolism	9.76	1.40906E-05	CLPX EIF2B2 LIPT1 MKNK1 MRPL16 MRPL30 MRPL48 MRPS25 PTPN1 RNF130 RPL10A RPL12 RPL15 RPL18 RPL26 RPL26L1 RPL31 RPL35 RPL36 RPL37 RPL39L RPL7A RPS10 RPS17 RPS3 UBE2V1 ZNF313
7	GO:0044260 [5]: cellular macromolecule metabolism	9.73	1.40906E-05	CLPX EIF2B2 LIPT1 MKNK1 MRPL16 MRPL30 MRPL48 MRPS25 PTPN1 RNF130 RPL10A RPL12 RPL15 RPL18 RPL26 RPL26L1 RPL31 RPL35 RPL36 RPL37 RPL39L RPL7A RPS10 RPS17 RPS3 TALDO1 UBE2V1 ZNF313
8	GO:0019538 [5]: protein metabolism	9.62	1.40906E-05	CLPX EIF2B2 LIPT1 MKNK1 MRPL16 MRPL30 MRPL48 MRPS25 PTPN1 RNF130 RPL10A RPL12 RPL15 RPL18 RPL26 RPL26L1 RPL31 RPL35 RPL36 RPL37 RPL39L RPL7A RPS10 RPS17 RPS3 UBE2V1 ZNF313
9	GO:0008152 [3]: metabolism	9.51	1.40906E-05	CLPX DFFA EIF2B2 G3BP LIPT1 MAOA MGC15763 MGC4172 MKNK1 MNDA MRPL16 MRPL30 MRPL48 MRPS25 PHF3 PRDX2 PSPC1 PTPN1 QTRT1 RNF130 RNMTL1 RPL10A RPL12 RPL15 RPL18 RPL26 RPL26L1 RPL31 RPL35 RPL36 RPL37 RPL39L RPL7A RPS10 RPS17 RPS3 SPAM1 TALDO1 TFAM TOP3A TTF1 U2AF1 UBE2V1 ZNF313
10	GO:0044237 [4]: cellular metabolism	8.43	1.40906E-05	CLPX DFFA EIF2B2 G3BP LIPT1 MAOA MGC15763 MKNK1 MNDA MRPL16 MRPL30 MRPL48 MRPS25 PHF3 PRDX2 PSPC1 PTPN1 QTRT1 RNF130 RNMTL1 RPL10A RPL12 RPL15 RPL18 RPL26 RPL26L1 RPL31 RPL35 RPL36 RPL37 RPL39L RPL7A RPS10 RPS17 RPS3 TALDO1 TFAM TOP3A TTF1 U2AF1 UBE2V1 ZNF313

11	GO:0044238 [4]: primary metabolism	8.37	1.40906E-05	CLPX DFFA EIF2B2 G3BP LIPT1 MAOA MKNK1 MNDA MRPL16 MRPL30 MRPL48 MRPS25 PHF3 PSPC1 PTPN1 QTRT1 RNF130 RNMTL1 RPL10A RPL12 RPL15 RPL18 RPL26 RPL26L1 RPL31 RPL35 RPL36 RPL37 RPL39L RPL7A RPS10 RPS17 RPS3 SPAM1 TALDO1 TFAM TOP3A TTF1 U2AF1 UBE2V1 ZNF313
12	GO:0007582 [2]: physiological process	1.94	0.005407329	ARRB1 C1QBP CLPX DFFA EIF2B2 G3BP LIPT1 MAOA MGC15763 MGC4172 MKNK1 MNDA MRPL16 MRPL30 MRPL48 MRPS25 PHF3 PRDX2 PSPC1 PTPN1 QTRT1 RAB5A RNF130 RNMTL1 RPL10A RPL12 RPL15 RPL18 RPL26 RPL26L1 RPL31 RPL35 RPL36 RPL37 RPL39L RPL7A RPS10 RPS17 RPS3 SLC25A5 SMC1L2 SPAM1 TALDO1 TFAM TOP3A TTF1 U2AF1 UBE2V1 ZNF313
13	GO:0050875 [3]: cellular physiological process	1.78	0.00634556	CLPX DFFA EIF2B2 G3BP LIPT1 MAOA MGC15763 MKNK1 MNDA MRPL16 MRPL30 MRPL48 MRPS25 PHF3 PRDX2 PSPC1 PTPN1 QTRT1 RAB5A RNF130 RNMTL1 RPL10A RPL12 RPL15 RPL18 RPL26 RPL26L1 RPL31 RPL35 RPL36 RPL37 RPL39L RPL7A RPS10 RPS17 RPS3 SLC25A5 SMC1L2 TALDO1 TFAM TOP3A TTF1 U2AF1 UBE2V1 ZNF313
14	GO:0042451 [7]: purine nucleoside biosynthesis	0.89	0.014846368	QTRT1
15	GO:0042455 [7]: ribonucleoside biosynthesis	0.89	0.014846368	QTRT1
16	GO:0046114 [9]: guanosine biosynthesis	0.89	0.014846368	QTRT1
17	GO:0046116 [11]: queuosine metabolism	0.89	0.014846368	QTRT1
18	GO:0046118 [10]: 7-methylguanosine biosynthesis	0.89	0.014846368	QTRT1
19	GO:0046129 [8]: purine ribonucleoside biosynthesis	0.89	0.014846368	QTRT1
20	GO:0006390 [8]: transcription from mitochondrial promoter	0.89	0.014846368	TFAM
21	GO:0008616 [8]: queuosine biosynthesis	0.89	0.014846368	QTRT1
22	GO:0008618 [10]: 7-methylguanosine metabolism	0.89	0.014846368	QTRT1
23	GO:0009163 [6]: nucleoside biosynthesis	0.89	0.014846368	QTRT1
24	GO:0006356 [8]: regulation of transcription from Pol I promoter	0.49	0.021927801	TFAM
25	GO:0008617 [9]: guanosine metabolism	0.49	0.021927801	QTRT1
26	GO:0006396 [6]: RNA processing	0.42	0.023052063	G3BP PSPC1 QTRT1 RNMTL1 U2AF1
27	GO:0007126 [8]: meiosis	0.37	0.024723526	SMC1L2 TOP3A