

Table S4. Gene ontology slim categories enriched in genes misexpressed at the mRNA abundance and ribosome occupancy (RPF) levels. RPF underdominant genes were not enriched in any gene functions.

mRNA Underdominant (underexpressed)			
term_ID	description	log10pvalue	representative
GO:0000278	mitotic cell cycle	-9.2487	mitotic cell cycle
GO:0048285	organelle fission	-4.8245	mitotic cell cycle
GO:0000280	nuclear division	-5.2541	mitotic cell cycle
GO:0006996	organelle organization	-4.7547	mitotic cell cycle
GO:0044763	single-organism cellular process	-6.2454	mitotic cell cycle
GO:0051276	chromosome organization	-3.8428	mitotic cell cycle
GO:0007049	cell cycle	-7.4622	mitotic cell cycle
GO:0007059	chromosome segregation	-3.2387	mitotic cell cycle
GO:0051641	cellular localization	-2.6559	mitotic cell cycle
GO:0051301	cell division	-5.1942	mitotic cell cycle
GO:0009057	macromolecule catabolic process	-3.5642	macromolecule catabolism
GO:0090304	nucleic acid metabolic process	-7.2549	macromolecule catabolism
GO:0043632	modification-dependent macromolecule catabolic process	-2.9545	macromolecule catabolism
GO:0006139	nucleobase-containing compound metabolic process	-5.6396	macromolecule catabolism
GO:0034641	cellular nitrogen compound metabolic process	-4.2466	macromolecule catabolism
GO:0006366	transcription from RNA polymerase II promoter	-2.4759	macromolecule catabolism
GO:0016070	RNA metabolic process	-5.1353	macromolecule catabolism
GO:0006464	cellular protein modification process	-2.0525	macromolecule catabolism
GO:0044260	cellular macromolecule metabolic process	-5.4987	macromolecule catabolism
GO:0009987	cellular process	-5.4116	cellular process
GO:0044699	single-organism process	-5.2674	single-organism process
GO:0065007	biological regulation	-6.4058	biological regulation
GO:0071840	cellular component organization or biogenesis	-6.8034	cellular component organization or biogenesis
GO:0050794	regulation of cellular process	-6.5348	regulation of cellular process
GO:0043170	macromolecule metabolic process	-4.7778	macromolecule metabolism
GO:1901360	organic cyclic compound metabolic process	-3.9786	macromolecule metabolism
GO:0046483	heterocycle metabolic process	-4.6524	heterocycle metabolism
GO:0006725	cellular aromatic compound metabolic process	-4.6309	heterocycle metabolism
GO:0006807	nitrogen compound metabolic process	-2.9407	nitrogen compound metabolism

mRNA Overdominant (overexpressed)			
term_ID	description	log10pvalue	representative
GO:0006164	purine nucleotide biosynthetic process	-9.6069	purine nucleotide biosynthesis
GO:1901576	organic substance biosynthetic process	-2.5486	purine nucleotide biosynthesis
GO:0055086	nucleobase-containing small molecule metabolic process	-4.9392	purine nucleotide biosynthesis
GO:1901564	organonitrogen compound metabolic process	-10.6453	purine nucleotide biosynthesis
GO:0046112	nucleobase biosynthetic process	-2.6326	purine nucleotide biosynthesis
GO:1901566	organonitrogen compound biosynthetic process	-9.519	purine nucleotide biosynthesis
GO:1901137	carbohydrate derivative biosynthetic process	-6.1664	purine nucleotide biosynthesis
GO:1901605	alpha-amino acid metabolic process	-4.5918	purine nucleotide biosynthesis

GO:0009123	nucleoside monophosphate metabolic process	-7.1679	purine nucleotide biosynthesis
GO:0044281	small molecule metabolic process	-8.7138	purine nucleotide biosynthesis
GO:0072522	purine-containing compound biosynthetic process	-8.7296	purine nucleotide biosynthesis
GO:0072521	purine-containing compound metabolic process	-4.5616	purine nucleotide biosynthesis
GO:0006163	purine nucleotide metabolic process	-4.4721	purine nucleotide biosynthesis
GO:0090407	organophosphate biosynthetic process	-4.1909	purine nucleotide biosynthesis
GO:0046394	carboxylic acid biosynthetic process	-2.5264	purine nucleotide biosynthesis
GO:0019752	carboxylic acid metabolic process	-3.632	purine nucleotide biosynthesis
GO:0055114	oxidation-reduction process	-2.8902	purine nucleotide biosynthesis
GO:0006082	organic acid metabolic process	-3.378	purine nucleotide biosynthesis
GO:0042440	pigment metabolic process	-3.1396	purine nucleotide biosynthesis
GO:0006811	ion transport	-2.3434	ion transport
GO:0055085	transmembrane transport	-2.8476	ion transport
GO:0034220	ion transmembrane transport	-2.415	ion transport
GO:0008152	metabolic process	-2.0516	metabolism
GO:0009987	cellular process	-2.5053	cellular process
GO:0044710	single-organism metabolic process	-10.6148	single-organism metabolism
GO:1901135	carbohydrate derivative metabolic process	-4.7286	carbohydrate derivative metabolism
GO:0009058	biosynthetic process	-2.374	biosynthesis
GO:0006793	phosphorus metabolic process	-3.1591	phosphorus metabolism

RPF Overdominant (overexpressed)			
term_ID	description	log10pvalue	representative
GO:0006189	'de novo' IMP biosynthetic process	-14.8967	primede novoprime IMP biosynthesis
GO:0055086	nucleobase-containing small molecule metabolic process	-5.2224	primede novoprime IMP biosynthesis
GO:1901564	organonitrogen compound metabolic process	-8.0014	primede novoprime IMP biosynthesis
GO:0046112	nucleobase biosynthetic process	-4.9137	primede novoprime IMP biosynthesis
GO:1901566	organonitrogen compound biosynthetic process	-8.7202	primede novoprime IMP biosynthesis
GO:1901137	carbohydrate derivative biosynthetic process	-4.0189	primede novoprime IMP biosynthesis
GO:1901605	alpha-amino acid metabolic process	-5.7854	primede novoprime IMP biosynthesis
GO:0019438	aromatic compound biosynthetic process	-2.0551	primede novoprime IMP biosynthesis
GO:0009123	nucleoside monophosphate metabolic process	-9.6858	primede novoprime IMP biosynthesis
GO:0044281	small molecule metabolic process	-7.3388	primede novoprime IMP biosynthesis
GO:0072522	purine-containing compound biosynthetic process	-12.6204	primede novoprime IMP biosynthesis
GO:0072521	purine-containing compound metabolic process	-7.3924	primede novoprime IMP biosynthesis
GO:0006163	purine nucleotide metabolic process	-5.6913	primede novoprime IMP biosynthesis
GO:0090407	organophosphate biosynthetic process	-3.8273	primede novoprime IMP biosynthesis
GO:0019878	lysine biosynthetic process via amino adipic acid	-2.3469	primede novoprime IMP biosynthesis
GO:0019752	carboxylic acid metabolic process	-5.2161	primede novoprime IMP biosynthesis
GO:0006082	organic acid metabolic process	-5.0142	primede novoprime IMP biosynthesis
GO:0009066	aspartate family amino acid metabolic process	-3.3552	primede novoprime IMP biosynthesis
GO:0042440	pigment metabolic process	-5.8078	primede novoprime IMP biosynthesis
GO:0044710	single-organism metabolic process	-7.1985	single-organism metabolism
GO:1901135	carbohydrate derivative metabolic process	-2.4313	carbohydrate derivative metabolism