

Supplementary Material. Gene Ontology category of genes up-regulated with magnesium supplementation. Displaying only results with $p < 0.05$.

GO biological process complete	Genes
mitochondrial ATP synthesis coupled electron transport (GO:0042775)	Cox1, Cob, Cox3, Cox7, Cyt1, Cox2, Sdh1
ATP synthesis coupled electron transport (GO:0042773)	Cox1, Cob, Cox3, Cox7, Cyt1, Cox2, Sdh1
Respiratory electron transport chain (GO:0022904)	Cox1, Cob, Cox3, Cox7, Cyt1, Cox2, Sdh1
Electron transport chain (GO:0022900)	Cox1, Cob, Cox3, Cox7, Cyt1, Cox2, Sdh1
Oxidative phosphorylation (GO:0006119)	Cox1, Cob, Cox3, Cox7, Cyt1, Cox2, Sdh1
ATP metabolic process (GO:0046034)	Cox1, Cob, Cox3, Cox7, Cyt1, Cox2, Sdh1, Err1, Err2, Oli1, Nde1
Purine ribonucleoside triphosphate metabolic process (GO:0009205)	Cox1, Cob, Cox3, Cox7, Cyt1, Cox2, Sdh1, Err1, Err2, Oli1, Nde1
Purine nucleoside triphosphate metabolic process (GO:0009144)	Cox1, Cob, Cox3, Cox7, Cyt1, Cox2, Sdh1, Err1, Err2, Oli1, Nde1
Ribonucleoside triphosphate metabolic process (GO:0009199)	Cox1, Cob, Cox3, Cox7, Cyt1, Cox2, Sdh1, Err1, Err2, Oli1, Nde1
Aerobic respiration (GO:0009060)	Cox1, Cob, Cox3, Cit3, Isf1, Icl1, Pet9, Cox2, Sdh1
Cellular respiration (GO:0045333)	Cox1, Cob, Cox3, Cit3, Isf1, Icl1, Pet9, Cox2, Sdh1, Cox7, Cyt1
Energy derivation by oxidation of organic compounds (GO:0015980)	Cox1, Cob, Cox3, Cox7, Cyt1, Cox2, Sdh1, Nde1, Cit3, Isf1, Icl1, Rgi1, Rgi2, Glc3, Pet9
Nucleoside triphosphate metabolic process (GO:0009141)	Err1, Cox1, Cob, Cox3, Err2, Cox7, Oli1, Nde1, Cyt1, Cox2, Sdh1
Generation of precursor metabolites and energy (GO:0006091)	Err1, Cox1, Cob, Cox3, Err2, Cox7, Oli1, Nde1, Cyt1, Cox2, Sdh1, Cit3, Isf1, Icl1, Rgi1, Glc3, Pet9
Purine ribonucleoside monophosphate metabolic process (GO:0009167)	Err1, Cox1, Cob, Cox3, Err2, Cox7, Oli1, Nde1, Cyt1, Cox2, Sdh1
Purine nucleoside monophosphate metabolic process (GO:0009126)	Err1, Cox1, Cob, Cox3, Err2, Cox7, Oli1, Nde1, Cyt1, Cox2, Sdh1
Ion transport (GO:0006811)	Pmp2, Ato3, Cox1, Tpo2, Cob, Cox3, Sfc1, Cox7,

Mup1, Ctr3, Bap3, Btn2, Bap2, Ady2, Jen1,
Oli1, Atx1, Avt6, Pet9, Cox2
