

Table 1. Noise-change genes in Δ STP1 and Δ STP2

Name: Genes that showed noise change in Δ STP1 or Δ STP2 are listed; Interaction: Noise change genes that had not been reported as STP1 or STP2 downstream in Yeastract are labeled as “Novel”; GO term: GO terms retrieved from SGD GO slim mapper (Yeast GO-Slim process). In the novel STP1 candidates, there were no enriched GO terms ($p < 0.01$; SGD GO term finder process). In the novel STP2 candidates, GO terms were enriched in transport-related genes, in which STP2 downstream genes are involved ($p < 0.01$; SGD GO Term Finder; Process).

Name	Interaction	GO term
STP1		
BIO2	Novel	vitamin metabolic process, monocarboxylic acid metabolic process
RPL26A	Novel	cytoplasmic translation, ribosomal large subunit biogenesis
ILV5	Novel	cellular amino acid metabolic process, mitochondrion organization
CLN1	Novel	protein phosphorylation, mitotic cell cycle, regulation of protein modification process, regulation of cell cycle
WSC2	Novel	cell wall organization or biogenesis, response to heat
MET6	Known	cellular amino acid metabolic process
MUP1	Known	ion transport, amino acid transport, transmembrane transport
TOS4	Known	cellular response to DNA damage stimulus
GAS3	Known	cell wall organization or biogenesis, carbohydrate metabolic process
CDC21	Known	nucleobase-containing small molecule metabolic process
STP2		
TIM9	Novel	mitochondrion organization, protein targeting
SIT1	Novel	ion transport, transmembrane transport, cellular ion homeostasis
NOP16	Novel	rRNA processing, ribosomal large subunit biogenesis
HXT4	Novel	ion transport, transmembrane transport, carbohydrate transport
GSY2	Novel	carbohydrate metabolic process, generation of precursor metabolites and energy
RPS17A	Novel	ribosomal small subunit biogenesis, ribosome assembly, cytoplasmic translation
GAS3	Novel	cell wall organization or biogenesis, carbohydrate metabolic process
ARG1	Novel	cellular amino acid metabolic process
FIT3	Novel	ion transport
CIN2	Novel	protein folding, cell morphogenesis
CLN2	Novel	mitotic cell cycle, protein phosphorylation, response to chemical, regulation of cell cycle, regulation of protein modification process, conjugation
MUP1	Known	ion transport, transmembrane transport, amino acid transport
YGP1	Known	cell wall organization or biogenesis
CDC21	Known	nucleobase-containing small molecule metabolic process
FIT2	Known	ion transport