

[illegible]

				Up
				Up
ER related	Down	ER-to-Golgi vesicle mediated transport	5 uncharacterized 16 genes	Down
	Down	Glycerolipid biosynthesis	CHO2, PSD1 + 4 uncharacterized 12 genes	Down
	Down	Peptide metabolic process	RPB4, GCN3 + 24 uncharacterized 12 genes	Down
	Down	Proteasomal ubiquitin independent protein catabolism	5 uncharacterized 11 genes	Down
	Down	Protein folding	20 uncharacterized 11, 22 genes	Up
	Down	Protein localisation to the ER	6 uncharacterized 11 genes	Up
	Down	Protein localisation to vacuolar membrane	2 uncharacterized 12 genes	
	Down	Protein refolding	5 uncharacterized 22 genes	
	Down	Protein transmembrane transport	4 uncharacterized 22 genes	
	Down	Signal peptide processing	5 uncharacterized 11 genes	
	Down	Tail anchored membrane protein insertion into ER membrane		
	Down		12 GET3, GET1	
Metal ion related	Up	Cation transmembrane transport	ZIP2, ENA1, SIT1, CTR4, PMC1, ZRC1 + 8 uncharacterized 14 genes	Down
	Up	Copper ion transport	10 COX17, SCO1	Up
	Up	Transition metal ion transport	ZIP2, CTR4 + 3 uncharacterized 14 genes	Up



GO term	SOMs cluster	Genes
Autophagy of mitochondrion	22	APG9, HSV2 + 1 uncharacterized genes
Cellular oxidant detoxification	7, 16	SRX1, CAT1, GPX2 + 5 uncharacterized genes
Cellular response to nitrosative stress	17	FHB1 + 1 uncharacterized genes
Cellular response to oxidative stress	11	CCP1, PIM1, TAL1, TPS1 + 5 uncharacterized genes
Glutathione metabolic process	11	TRX1 + 4 uncharacterized genes
Glycoprotein biosynthetic process	7	KRE5, KTR3 + 3 uncharacterized genes
Golgi vesicle docking	1	2 uncharacterized genes
Hydrogen peroxide catabolic process	1	TSA1, GPX2
Late endosome vacuole transport	16	DDI1 + 6 uncharacterized genes
Organelle fusion	11	TRX1 + 7 uncharacterized genes
Organelle membrane fusion	1	SEC6 + 4 uncharacterized genes
Protein catabolic process in the vacuole	11	3 uncharacterized genes
Protein localisation to ER	3	2 uncharacterized genes
Protein localisation to vacuole	22	4 uncharacterized genes
Regulation of actin filament polymerisation	1	CIN1 + 3 uncharacterized genes
Regulation of kinase activity	17	MKK2, PTP2 + 1 uncharacterized genes
Regulation of vacuole fusion	16	4 uncharacterized genes
Response to topologically incorrect protein	3	4 uncharacterized genes
Stress granule disassembly	3	2 uncharacterized genes

Transition metal ion transport	YKE4, ZIP2, CTR4 + 3 11 uncharacterized genes
Ubiquitin-dependent ERAD pathway	3 2 uncharacterized genes
Ergosterol biosynthesis	ERG28, ERG26, ERG27, ERG20 10 + 1 uncharacterized genes
GPI anchor biosynthesis	10 4 uncharacterized genes
Iron ion transmembrane transport	CFT1, LAC2 + 1 10 uncharacterized genes
Peptide biosynthesis	RPB4 + 23 uncharacterized 10 genes
Post-translational protein targeting to the membrane	3 2 uncharacterized genes
Proteolysis	3 4 uncharacterized genes
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Iron ion transmembrane transport	CFT1, LAC2 + 1 10 uncharacterized genes
Copper ion transport	7 COX17, SCO1 ZIP2, FRE3, CTR4, PXA2, ENA1, PMC1, ZRC1, SIT1, PDR5-2, AQY1 + 27 uncharacterized
Ion transport	11, 12 genes

Transition metal ion
transport

YKE4, ZIP2, CTR4 + 3
11 uncharacterized genes