

Supplementary II

The proteins are either abundant yeast proteins or proteins not seen in all the three triplicates

	Protein ^a	Function
Proteins of interest not appearing in all three repeats	SRO9	Cytoplasmic RNA-binding protein that associates with translating ribosomes
	MEX67	Poly(A)RNA binding protein involved in nuclear mRNA export
	BRR2	Required for disruption of U4/U6 base-pairing to activate the spliceosome for catalysis
	NOP58	Protein involved in pre-rRNA processing, 18S rRNA and snoRNA synthesis
	TIF34	Subunit of the core complex of translation initiation factor 3(eIF3)
	HYP2	Translation initiation factor eIF-5A, promotes formation of the first peptide bond
	UTP22	Possible U3 snoRNP protein involved in maturation of pre-18S rRNA
Ribosomal proteins	RPS1A	Ribosomal protein 10 (rp10) of the small (40S) subunit;
	RPL9A	Protein component of the large (60S) ribosomal subunit
	RPS7B	Protein component of the small (40S) ribosomal subunit
	RPL5	Protein component of the large (60S) ribosomal subunit
	RPL11B*	Protein component of the large (60S) ribosomal subunit
	MDN1*	Dynein-related AAA-type ATPase, forms extended pre-60S particle with Rix1 complex
	RPL40A*	A ribosomal protein of the large (60S) ribosomal subunit
	RPL30	Protein component of the large (60S) ribosomal subunit
	RPS22A	Protein component of the small (40S) ribosomal subunit
	RPL31B	Protein component of the large (60S) ribosomal subunit

	Protein	Function
Yeast abundant enzymes	CDC19*	Pyruvate kinase, functions in glycolysis to convert phosphoenolpyruvate to pyruvate
	TDH1*	Glyceraldehyde-3-phosphate dehydrogenase, involved in glycolysis and gluconeogenesis
	TDH3*	Glyceraldehyde-3-phosphate dehydrogenase, involved in glycolysis and gluconeogenesis
	SNF1*	Serine/threonine protein kinase, required for transcription of glucose-repressed genes
	GCV2	Part of mitochondrial glycine decarboxylase complex, required for the catabolism of glycine
	DYN1	Microtubule motor protein, required for anaphase spindle elongation
	MAS1	Mitochondrial processing protease
	PBS2	MAP kinase that plays a pivotal role in the osmosensing signal-transduction pathway
	BEM2	Rho GTPase activating protein, controls of cytoskeleton organization & cellular morphogenesis
	GCN1	Positive regulator of the Gcn2p kinase activity
	TDH2	Glyceraldehyde-3-phosphate dehydrogenase, involved in glycolysis and gluconeogenesis
	ENO1	Enolase I: involved in glycolysis and gluconeogenesis
	ENO2	Enolase II: involved in glycolysis and gluconeogenesis
	TPS3	Regulatory subunit of trehalose-6-phosphate synthase/phosphatase complex
	SEC23	GTPase-activating protein
	ACS2	Acetyl-coA synthetase isoform, is the nuclear source of acetyl-coA for histone acetylation
	THS1	Threonyl-tRNA synthetase, essential cytoplasmic protein
	TFP1	Vacuolar ATPase V1 domain subunit A containing the catalytic nucleotide binding sites
	ADH3	Mitochondrial alcohol dehydrogenase isozyme III
	GLK1	Glucokinase, catalyzes phosphorylation of glucose in glucose metabolism
	TPS1	Trehalose-6-phosphate synthase; which synthesizes the storage carbohydrate trehalose
	URA2	Catalyzes the first two enzymatic steps in the de novo biosynthesis of pyrimidines
	NUP159	Nucleoporin, subunit of the nuclear pore complex; required for mRNA export

	Protein	Function
Heat shock proteins	YDJ1*	Protein chaperone involved in regulation of the HSP90 and HSP70 functions
	SSA2*	Member of HSP70 family; ATP binding protein involved in protein folding & transport
	SIS1	Type II HSP40 co-chaperone
	SSA1	Member of HSP70 family; ATPase involved in protein folding and nuclear transport

^aThe asterix beside the protein names indicate the contaminants found in control pull-downs.