

Supporting Information

Systematic name	Gene Name	Systematic name	Gene Name	Systematic name	Gene Name	Systematic name	Gene Name
YMR120C	ADE17	YER023W	PRO3	YIL052C	RPL34B	YIL069C	RPS24B
YMR300C	ADE4	YGL062W	PYC1	YDL191W	RPL35A	YGR027C	RPS25A
YGR061C	ADE6	YBR218C	PYC2	YDL136W	RPL35B	YLR333C	RPS25B
YMR169C	ALD3	YLR075W	RPL10	YLR325C	RPL38	YGL189C	RPS26A
YPR145W	ASN1	YPR102C	RPL11A	YPR043W	RPL43A	YER131W	RPS26B
YGR124W	ASN2	YGR085C	RPL11B	YBR031W	RPL4A	YOR167C	RPS28A
YDR168W	CDC37	YDL082W	RPL13A	YDR012W	RPL4B	YLR264W	RPS28B
YCR005C	CIT2	YMR142C	RPL13B	YML073C	RPL6A	YJR145C	RPS4A
YLR216C	CPR6	YKL006W	RPL14A	YLR448W	RPL6B	YHR203C	RPS4B
YML070W	DAK1	YHL001W	RPL14B	YGL076C	RPL7A	YPL090C	RPS6A
YHR068W	DYS1	YIL133C	RPL16A	YHL033C	RPL8A	YBR181C	RPS6B
YPL037C	EGD1	YKL180W	RPL17A	YLL045C	RPL8B	YNL096C	RPS7B
YMR250W	GAD1	YJL177W	RPL17B	YGL147C	RPL9A	YBL072C	RPS8A
YDL215C	GDH2	YNL301C	RPL18B	YDL130W	RPP1B	YER102W	RPS8B
YPR160W	GPH1	YBL027W	RPL19B	YOL039W	RPP2A	YPL081W	RPS9A
YKL152C	GPM1	YPL220W	RPL1A	YMR230W	RPS10B	YBR189W	RPS9B
YLR192C	HCR1	YGL135W	RPL1B	YDR025W	RPS11A	YOR007C	SGT2
YCL030C	HIS4	YMR242C	RPL20A	YBR048W	RPS11B	YAL005C	SSA1
YLL026W	HSP104	YOR312C	RPL20B	YMR143W	RPS16A	YNL209W	SSB2
YPL240C	HSP82	YBR191W	RPL21A	YDL083C	RPS16B	YLR150W	STM1
YFR053C	HXK1	YPL079W	RPL21B	YML024W	RPS17A	YBR126C	TPS1
YBL076C	ILS1	YLR061W	RPL22A	YDR447C	RPS17B	YML100W	TSL1
YLR432W	IMD3	YGL031C	RPL24A	YDR450W	RPS18A	YJR103W	URA8
YML056C	IMD4	YGR148C	RPL24B	YML026C	RPS18B	YJR014W	YJR014W
YOR232W	MGE1	YLR344W	RPL26A	YML063W	RPS1B	YOR251C	YOR251C
YJL042W	MHP1	YGR034W	RPL26B	YKR057W	RPS21A	YPL009C	YPL009C
YER165W	PAB1	YDR471W	RPL27B	YJL136C	RPS21B	YNL241C	ZWF1
YGR087C	PDC6	YOR063W	RPL3	YGR118W	RPS23A		
YGR240C	PFK1	YLR406C	RPL31B	YPR132W	RPS23B		
YMR205C	PFK2	YOR234C	RPL33B	YER074W	RPS24A		

Supplemental Table 1. Roughly a third of detectable exclusively cytoplasmic proteins (117/395) became significantly more insoluble following a two hour heat stress at 42°C (95% confidence level, Z-score ≥ 1.96).

Systematic Name	Gene Name
YGL234W	ADE5,7
YOR335C	ALA1
YGL105W	ARC1
YDR127W	ARO1
YGR155W	CYS4
YPR035W	GLN1
YCL030C	HIS4
YMR186W	HSC82
YDR171W	HSP42
YPL240C	HSP82
YER165W	PAB1
YDR450W	RPS18A
YHL034C	SBP1
YAL005C	SSA1
YDL229W	SSB1
YNL209W	SSB2
YKL081W	TEF4
YIL078W	THS1
YJL130C	URA2
YGR094W	VAS1
YGR234W	YHB1

Supplemental Table 2. Among the 50 cytoplasmic proteins that co-immunoprecipitate with Hsp82-GFP, a significant number (21) are also known to form intracellular foci (hypergeometric $p \leq 10^{-3}$ for proteins identified at the 97.7% confidence level, Z-score ≥ 2).