Additional File 1. Compilation of high-throughput data for the 19S RP and 20S CP proteasomal subunits, as well as other proteins in Complexes 2 and 75 in Gavin $et\ al.$ ¹²

Complex	Subcomplex	OLN	Gene Name	Gavin 2	Gavin 75
19S RP ^a	Base	YGR232W	NAS6	M(93)	M(93)
		YHR027C	RPN1	_	C
		YIL075C	RPN2	A	A
		YLR421C	RPN13	_	C
		YKL145W	RPT1	_	C
		YDL007W	RPT2	_	A
		YDR394W	RPT3	_	A
		YOR259C	RPT4	_	A
		YOR117W	RPT5	_	A
		YGL048C	RPT6	_	A
	Hinge	YHR200W	RPN10	A	С
	Lid	YER021W	RPN3	M(93)	M(93)
		YDL147W	RPN5	_	C
		YDL097C	RPN6	_	C
		YPR108W	RPN7	_	C
		YOR261C	RPN8	A	C
		YDR427W	RPN9	_	C
		YFR004W	RPN11	_	C
		YFR052W	RPN12	_	C
		YDR363W-A	RPN15	_	_
20S CP ^b	α ring	YMR314W	PRE5	A	A
		YOL038W	PRE6	C^{c}	M(141)
		YML092C	PRE8	C^d	M(57)
		YGR135W	PRE9	A	A
		YOR362C	PRE10	C^{c}	M(141)
		YGR253C	PUP2	_	_
		YGL011C	SCL1	C^{c}	M(141)
	β ring	YER012W	PRE1	A	A
		YPR103W	PRE2	C^{c}	M(141)
		YJL001W	PRE3	C^c	M(141)
		YFR050C	PRE4	M(57)	M(57)
		YBL041W	PRE7	A	A
		YOR157C	PUPI	_	_
		YER094C	PUP3	C^{c}	M(141)
Other	Proteasome activator	YFL007W	BLM3	A	A
	Cell division control protein	YJL194W	CDC6	_	A
	Proteasome-associated protein	YHL030W	ECM29	A	C
	U3 snoRNP protein	YNL075W	IMP4	A	_
	DNA repair protein	YLR035C	MLH2	A	A
	DNA repair protein	YNL250W	RAD50	_	A
	Suppressor of Rho3	YPR032W	SRO7	_	A
	Deubiquitinating enzyme	YFR010W	UBP6	_	A
	Uncharacterised protein	YOL087C	<i>UBP</i> 0 *	_	A
	Onemaraciensea protein	1010070	-		11

Within each subcomplex, the proteins have been listed alphabetically by gene name. For each protein, the ordered locus name (OLN), gene name, and classification in Gavin $et~al.^{12}$ Complexes 2 and 75 ('Gavin 2' and 'Gavin 75' respectively) are provided. Gavin $et~al.^{12}$ classified proteins as core proteins (C), attachment proteins (A), or into a module X (M(X)). Other proteins from Complexes 2 and 75 (that were not part of either proteasomal complex) have been included under 'Other', with a brief description of their function in the 'Subcomplex' column obtained from Swissprot (www.expasy.ch) and Schmidt $et~al.^{39}$

- * (OLN YOL087C) and ** (OLN YOL098C) are novel proteins. The ribosomal protein Rps18b (OLN YML026C) was part of Complex 75 but was excluded from this table because ribosomal proteins are considered to be common, non
- specific contaminants that generate false positives.⁵

 ^a The protein composition of the 19S RP was sourced from Schmidt *et al.*³⁹ and Walz *et al.*³⁰. Since Nas6 interacts with the ATPase ring (in the 19S RP base) via Rpt3, it was assumed that Nas6 is also part of the 19S RP base.

 ^b The protein composition of the 20S RP was sourced from Baumeister *et al.*³⁷

- ^c This protein was classified as both a core and Module 141 protein by Gavin *et al.* ¹² in Complex 2. ^d This protein was classified as both a core and Module 57 protein by Gavin *et al.* ¹² in Complex 2.