

Table S1, Raijmakers et al.

Experiment	Protein	# Quantified peptides	Average log 2 ratio	Standard deviation log 2 ratio
300 fmol light ;10 fmol heavy	BSA	10	-5.041	0.529
300 fmol light ;30 fmol heavy	BSA	10	-3.410	0.701
300 fmol light ;100 fmol heavy	BSA	10	-1.733	0.538
300 fmol light ;300 fmol heavy	BSA	10	0.003	0.229
100 fmol light ;300 fmol heavy	BSA	10	1.645	0.454
30 fmol light ;300 fmol heavy	BSA	10	3.544	0.349
10 fmol light ;300 fmol heavy	BSA	10	5.132	0.337

Quantitation data corresponding to Raijmakers et al., Figure 3

Table S2, Raijmakers et al.

Accession number	# Quantified peptides	Average log 2 ratio	Standard deviation log 2 ratio
IPI00830223	2	-0.144	0.279
IPI00336362	2	-0.127	0.174
IPI00117857	2	-0.122	0.270
IPI00229080	10	-0.108	0.192
IPI00330804	2	-0.100	0.018
IPI00116074	3	-0.085	0.354
IPI00124692	2	-0.075	0.116
IPI00308885	2	-0.067	0.103
IPI00469952	3	-0.041	0.255
IPI00226430	3	-0.040	0.276
IPI00137409	6	-0.035	0.111
IPI00169463	6	-0.031	0.154
IPI00127596	3	-0.026	0.018
IPI00119111	2	-0.020	0.046
IPI00127560	3	-0.016	0.082
IPI00380436	3	-0.013	0.254
IPI00123313	6	-0.009	0.147
IPI00123924	5	-0.007	0.276
IPI00555059	5	-0.005	0.083
IPI00469114	3	-0.001	0.117
IPI00553333	4	0.009	0.161
IPI00136906	2	0.011	0.154
IPI00230212	3	0.014	0.100
IPI00380873	8	0.015	0.291
IPI00319994	3	0.015	0.172
IPI00115679	2	0.015	0.004
IPI00131830	9	0.017	0.201
IPI00323357	10	0.020	0.117
IPI00462072	2	0.022	0.026
IPI00221402	6	0.022	0.109
IPI00230395	4	0.023	0.042
IPI00405058	5	0.024	0.050
IPI00131138	7	0.025	0.141
IPI00113223	10	0.025	0.132
IPI00119667	2	0.026	0.017
IPI00110753	5	0.028	0.142
IPI00123223	2	0.035	0.073
IPI00405227	34	0.036	0.173
IPI00132722	7	0.041	0.093

Accession number	# Quantified peptides	Average log 2 ratio	Standard deviation log 2 ratio
IPI00377351	4	0.042	0.042
IPI00110850	13	0.042	0.137
IPI00121209	3	0.042	0.052
IPI00309768	2	0.044	0.033
IPI00623845	2	0.045	0.022
IPI00169916	4	0.048	0.157
IPI00115522	3	0.053	0.129
IPI00117167	3	0.053	0.204
IPI00355382	2	0.055	0.246
IPI00466069	5	0.058	0.062
IPI00848801	5	0.064	0.127
IPI00131695	13	0.066	0.101
IPI00114375	11	0.067	0.206
IPI00555069	3	0.069	0.061
IPI00457659	2	0.070	0.045
IPI00139788	3	0.072	0.083
IPI00462934	2	0.072	0.015
IPI00468203	3	0.077	0.031
IPI00776343	3	0.078	0.071
IPI00128642	10	0.086	0.147
IPI00624663	5	0.087	0.092
IPI00323592	4	0.090	0.103
IPI00323624	4	0.091	0.039
IPI00317309	10	0.092	0.054
IPI00318671	3	0.093	0.155
IPI00316491	2	0.097	0.137
IPI00387422	3	0.101	0.097
IPI00336324	4	0.103	0.113
IPI00408119	2	0.113	0.065
IPI00126248	2	0.119	0.104
IPI00465786	17	0.133	0.179
IPI00125091	3	0.133	0.122
IPI00223757	2	0.156	0.008
IPI00622235	7	0.190	0.378
IPI00123181	2	0.202	0.335
IPI00420882	2	0.206	0.334
IPI00129526	2	0.212	0.004
IPI00312058	3	0.223	0.126
IPI00467447	3	0.246	0.005

All proteins accession numbers corresponding to IPI mouse v3.36

Quantitation data corresponding to Raijmakers et al., Figure 4A

Table S3, Raijmakers et al.

Accession number	# Quantified peptides	Average log 2 ratio	Standard deviation log 2 ratio	Accession number	# Quantified peptides	Average log 2 ratio	Standard deviation log 2 ratio
IPI00230044	3	-2.202	0.248	IPI00128249	2	0.046	0.129
IPI00555059	7	-2.063	0.156	IPI00776343	3	0.058	0.044
IPI00230212	4	-2.049	0.099	IPI00462072	6	0.072	0.307
IPI00121440	4	-2.031	0.255	IPI00323357	6	0.076	0.305
IPI00317309	3	-2.008	0.092	IPI00114375	3	0.084	0.132
IPI00116498	3	-1.992	0.041	IPI00312058	4	0.101	0.145
IPI00353727	2	-1.989	0.176	IPI00323624	3	0.127	0.060
IPI00128642	11	-1.975	0.154	IPI00131695	8	0.136	0.141
IPI00113996	3	-1.956	0.487	IPI00137409	6	0.138	0.231
IPI00230682	2	-1.919	0.432	IPI00127560	3	0.169	0.017
IPI00221890	2	-1.919	0.130	IPI00119667	2	0.170	0.075
IPI00121209	8	-1.763	0.126	IPI00387422	3	0.303	0.018
IPI00553333	5	-1.717	0.122	IPI00318671	2	0.369	0.213
IPI00316491	2	-1.681	0.081	IPI00131830	6	0.445	0.253
IPI00465786	3	-1.595	0.569	IPI00387422	2	1.143	0.194
IPI00110658	3	-1.591	0.096	IPI00110658	2	1.164	0.457
IPI00230706	2	-1.481	0.748	IPI00553333	2	1.526	0.004
IPI00131830	9	-0.488	0.543	IPI00648086	3	1.645	0.266
IPI00758028	2	-0.299	0.513	IPI00127596	4	1.727	0.178
IPI00626662	3	-0.156	0.245	IPI00132722	4	1.796	0.207
IPI00110753	5	-0.147	0.131	IPI00319994	2	1.822	0.136
IPI00380873	2	-0.101	0.274	IPI00229080	5	1.874	0.111
IPI00230108	4	-0.090	0.387	IPI00652436	6	1.893	0.236
IPI00407130	5	-0.088	0.424	IPI00405227	15	1.912	0.111
IPI00115522	3	-0.086	0.139	IPI00124692	3	1.949	0.116
IPI00623845	7	-0.086	0.195	IPI00136906	2	1.972	0.020
IPI00139788	2	-0.060	0.009	IPI00133580	5	1.980	0.174
IPI00114375	5	-0.048	0.555	IPI00468203	2	2.022	0.209
IPI00169463	7	-0.042	0.127	IPI00555069	2	2.025	0.380
IPI00117857	3	-0.030	0.195	IPI00336324	2	2.052	0.173
IPI00652436	11	-0.027	0.093	IPI00317309	5	2.056	0.360
IPI00111218	5	-0.026	0.235	IPI00123313	3	2.059	0.181
IPI00131695	10	-0.006	0.209	IPI00853925	4	2.066	0.243
IPI00129755	4	0.007	0.206	IPI00380873	4	2.153	0.216
				IPI00624663	3	2.349	0.489

All proteins accession numbers corresponding to IPI mouse v3.36

Quantitation data corresponding to Raijmakers et al., Figure 4B

Table S4, Raijmakers et al.

Accession number	# Quantified peptides	Average log 2 ratio	Standard deviation log 2 ratio	Description
IPI00685901	7	-3.650	0.741	PSMB5 Proteasome subunit beta type 5
IPI00712187	5	-1.418	1.534	MGC133789 Proteasome subunit beta type 7
IPI00697260	2	-0.966	0.114	PSMB6 Proteasome subunit beta type-6 precursor
IPI00700444	5	-0.465	0.817	PSMB2 Proteasome subunit beta type-2
IPI00705531	8	-0.393	0.924	PSMA4 Proteasome subunit alpha type-4
IPI00713535	5	-0.364	1.127	PSMA2 Proteasome subunit alpha type-2
IPI00705755	1	-0.042	n/a	MGC128032 Proteasome subunit beta type-3
IPI00722440	6	0.004	0.726	PSMB1 Proteasome subunit beta type-1 precursor
IPI00715748	11	0.141	1.004	PSMA6 Proteasome subunit alpha type-6
IPI00687075	8	0.359	0.794	PSMA1 Proteasome subunit alpha type-1
IPI00711587	7	0.395	0.532	PSMA3 Proteasome subunit alpha type-3
IPI00695078	8	0.609	0.859	PSMA7 Proteasome subunit alpha type-7
IPI00707875	5	0.611	0.512	PSMA5 Proteasome subunit alpha type-5
IPI00697757	6	0.661	0.899	PSMB4 Proteasome subunit beta type-4 precursor
IPI00726885	5	2.934	0.466	PSMB8 Proteasome subunit beta type-8 precursor
IPI00707279	3	3.127	0.310	PSME1 Proteasome activator complex subunit 1
IPI00706307	3	4.460	0.917	PSMB10 Proteasome subunit beta type-10 precursor
IPI00697970	2	4.995	0.830	PSME2 Proteasome activator complex subunit 2
IPI00695176	3	5.386	0.374	PSMB9 Proteasome subunit beta type-9 precursor

All proteins accession numbers corresponding to IPI cow v3.22

Quantitation data corresponding to Raijmakers et al., Figure 5C

Table S5, Raijmakers et al.

Proteasome protein	Database	Description	IPI Accession	Mascot protein score	Unique peptides (ion score >20)	Coverage
Alpha 7	IPI cow v3.22	PSMA7 Proteasome subunit alpha type-7	IPI00695078	783	11	53%
Alpha 5	IPI cow v3.22	PSMA5 Proteasome subunit alpha type-5	IPI00707875	572	7	32%
Alpha 1	IPI cow v3.22	PSMA1 Proteasome subunit alpha type-1	IPI00687075	494	11	40%
Alpha 6	IPI cow v3.22	PSMA6 Proteasome subunit alpha type-6	IPI00715748	484	12	50%
Alpha 2	IPI cow v3.22	PSMA2 Proteasome subunit alpha type-2	IPI00713535	470	8	40%
Beta 4	IPI cow v3.22	PSMB4 Proteasome subunit beta type-4 precursor	IPI00697757	464	7	34%
Beta 1	IPI cow v3.22	PSMB1 Proteasome subunit beta type-1 precursor	IPI00722440	297	6	23%
Alpha 4	IPI cow v3.22	PSMA4 Proteasome subunit alpha type-4	IPI00705531	291	8	26%
Beta 5	IPI cow v3.22	PSMB5 Proteasome subunit beta type	IPI00685901	270	7	29%
Alpha 3	IPI cow v3.22	PSMA3 Proteasome subunit alpha type-3	IPI00711587	261	11	45%
Beta 9	IPI cow v3.22	PSMB9 Proteasome subunit beta type-9 precursor	IPI00695176	193	4	25%
Beta 8	IPI cow v3.22	PSMB8 Proteasome subunit beta type-8 precursor	IPI00726885	165	6	22%
Beta 7	IPI cow v3.22	MGC133789 Proteasome subunit beta type	IPI00712187	133	5	18%
Beta 6	IPI cow v3.22	PSMB6 Proteasome subunit beta type-6 precursor	IPI00697260	118	4	18%
Beta 2	IPI cow v3.22	PSMB2 Proteasome subunit beta type-2	IPI00700444	106	7	31%
Beta 10	IPI cow v3.22	PSMB10 Proteasome subunit beta type-10 precursor	IPI00706307	104	3	12%
PSME1	IPI cow v3.22	PSME1 Proteasome activator complex subunit 1	IPI00707279	128	5	22%
Beta 3	IPI cow v3.22	MGC128032 Proteasome subunit beta type-3	IPI00705755	54	3	15%
PSME2	IPI cow v3.22	PSME2 Proteasome activator complex subunit 2	IPI00697970	48	2	10%

All proteins accession numbers corresponding to IPI cow v3.22

Identification data corresponding to Raijmakers et al., Figure 5C