

Supplementary Table 1. Protein identifications in breakfast cereals (BC). Trypsin digestion peptides were identified after database searching against the Poaceae subset of the Uniprot database appended with the Common Repository of Adventitious Protein (cRAP) database using a 1% global false discovery rate (FDR) threshold.

N	Unused	Total	% Cov (95)	Accession	Name	Species	Peptides (95%)
1	72.79	72.79	44.98	Q8W3W9	Low-molecular-weight glutenin subunit group 3 type II	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	139
2	63.52	63.52	69.88	A0A1D5YFA7	Beta-amylase	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	53
3	61.48	61.48	53.11	A2WVB9	Putative uncharacterized protein	<i>O. sativa</i> subsp. <i>indica</i>	114
4	56.15	56.15	35.41	W5EST8	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	36
5	54.95	54.98	45.97	W6AX70	High molecular weight glutenin subunit	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	108
6	50.35	50.35	42.82	A0A060MZP1	High molecular weight glutenin subunit	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	154
7	48.68	48.76	44.79	K7XE90	Alpha-gliadin	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	49
8	40.87	46.31	52.40	Q0E261	Glutelin	<i>O. sativa</i> subsp. <i>japonica</i>	89
9	38.51	44.56	40.00	G4Y3Y0	High-molecular-weight glutenin subunit Bx7.1	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	91
10	38.34	39.64	44.32	M8CT91	12S seed storage globulin 1	<i>O. sativa</i> subsp. <i>japonica</i>	28
11	33.18	33.18	71.07	M8CU50	Uncharacterized protein	<i>O. sativa</i> subsp. <i>japonica</i>	70
12	32.70	45.22	41.12	P12615	12S seed storage globulin 1	<i>A. sativa</i>	53
13	32.31	44.16	40.89	D2X6D9	Alpha-gliadin	<i>T. timopheevii</i> subsp. <i>araraticumcum turgidum</i> subsp. <i>durum</i>	93
14	32.18	32.28	57.64	W5FZ62	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	23
15	31.17	31.19	37.16	Q548E8	16 kDa gamma zein	<i>Zea mays</i>	37
16	30.19	43.72	51.02	T1T6C4	Glutelin	<i>O. sativa</i> subsp. <i>indica</i>	78
17	30.06	30.07	75.60	Q6S5B1	Alpha amylase inhibitor CM3	<i>T. timopheevii</i> subsp. <i>araraticumcum turgidum</i> subsp. <i>durum</i>	63
18	28.15	43.03	52.22	Q10JA8	Glutelin	<i>O. sativa</i> subsp. <i>japonica</i>	62

19	27.67	50.00	36.90	I6QQ39	Globulin-3A	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	36
20	27.64	27.65	24.26	K2C1_HUMAN			13
21	27.50	27.50	70.86	X2KYP9	Monomeric alpha-amylase inhibitor	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	25
22	26.28	28.29	79.31	P16851	Alpha-amylase/trypsin inhibitor CM2	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	28
23	25.66	27.76	42.60	Q548E9	27 kDa gamma-zein	<i>Zea mays</i>	53
24	25.48	25.50	44.04	W8E6F7	Gamma-gliadin	<i>O. sativa</i> subsp. <i>japonica</i>	50
25	24.87	41.93	39.08	A9QUS3	High molecular weight glutenin subunit	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	77
26	24.71	26.86	33.14	Q9ZWJ8	Glutelin	<i>O. sativa</i>	22
27	24.01	24.03	33.75	P06676	Zein-alpha 19C1	<i>Zea mays</i>	43
28	23.95	23.96	27.55	Q41844	Zein	<i>Zea mays</i>	34
29	23.40	23.48	28.05	A0A1D5YEH1	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	19
30	22.82	22.87	15.06	A0A1Q1BYA0	Pyruvate, phosphate dikinase	<i>Zea mays</i>	11
30	0.00	22.87	15.41	A0A1D6FQG3	Pyruvate orthophosphate dikinase2	<i>Zea mays</i>	11
31	22.80	22.85	60.11	Q946W0	15kD beta zein	<i>Zea mays</i>	71
32	21.85	21.89	13.11	W5B5R3	Sucrose synthase	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	12
33	21.35	21.36	23.12	M7YGL9	Alanine aminotransferase 2	<i>T. timopheevii</i> subsp. <i>araraticumcum urartu</i>	12
34	21.29	21.30	20.85	Q5NKP6	Starch synthase, chloroplastic/amyloplastic	<i>Zea mays</i>	11
35	21.27	21.27	42.78	A8HNF3	Z1A alpha zein protein	<i>Zea mays</i>	18
36	21.10	21.11	46.26	Q946Y9	Thaumatococcus-like protein TLP7	<i>H. vulgare</i>	12
37	20.95	20.98	54.23	A0A173DQZ7	Type-b avenin-like protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	42
38	20.72	20.76	21.34	A0A1D6ABF1	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	11
39	20.63	20.67	61.06	Q8LKV8	Seed globulin	<i>O. sativa</i> subsp. <i>japonica</i>	17

40	20.57	20.61	80.14	C8CAI4	Dimeric alpha-amylase inhibitor	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	31
41	20.27	38.68	37.37	Q1ZZT4	Low-molecular-weight glutenin subunit	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	52
42	20.24	20.31	29.61	Q8LK23	Peroxidase	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	15
43	20.13	20.14	40.00	Q946W1	50kD gamma zein	<i>Zea mays</i>	18
44	19.96	24.52	40.55	A0A1P8DT06	Alpha-gliadin storage protein	<i>T. timopheevii</i> subsp. <i>araraticumcum spelta</i>	50
45	19.49	19.51	65.56	A0A1B2LQE5	Alpha amylase trypsin inhibitor	<i>T. timopheevii</i> subsp. <i>araraticumcum spelta</i>	11
46	19.43	20.11	49.81	B6UKL5	Gamma-gliadin	<i>T. timopheevii</i> subsp. <i>araraticumcum turgidum</i>	52
47	19.15	19.22	28.68	B0FRH4	Aspartate aminotransferase	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	9
48	18.92	29.48	30.73	S4U5H9	High molecular weight glutenin subunit 1Dx	<i>O. sativa</i> subsp. <i>japonica</i>	75
49	18.51	18.52	28.73	A0A0E0E950	Uncharacterized protein	<i>O. meridionalis</i>	33
50	18.31	18.49	14.57	A0A1D6REH6	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	11
51	18.28	18.32	27.63	R9UNY9	Xylanase inhibitor protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	11
52	17.83	17.91	13.49		K1C10_HUMAN		8
53	17.78	17.89	19.16	Q0PG36	Glucose-1-phosphate adenylyltransferase	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	10
54	17.73	17.80	20.08	Q9M4Z1	Glucose-1-phosphate adenylyltransferase	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	9
55	17.51	17.58	15.46	K4FHN8	Protein disulfide-isomerase	<i>O. sativa</i> subsp. <i>japonica</i>	9
56	17.46	17.54	57.14	A0A0E0Q5N0	Uncharacterized protein	<i>O. rufipogon</i>	15
57	16.98	17.02	40.11	Q09114	Avenin-E	<i>A. sativa</i>	23
58	16.90	27.92	23.96	C3VN74	Low molecular weight glutenin	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	63
59	16.87	21.09	42.77	B6DQD5	Gamma-gliadin	<i>T. timopheevii</i> subsp. <i>araraticumcum spelta</i>	40
60	16.83	16.92	51.95	TRYP_PIG			60
61	16.63	16.72	18.30	K1C9_HUMAN			10

62	16.25	16.30	64.66	Q8GZB0	Non-specific lipid-transfer protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	22
63	16.14	32.89	30.48	K7WV92	Low molecular weight glutenin subunit	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	49
64	15.92	15.96	68.82	W4ZP51	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	18
65	15.44	21.80	26.02	A0A1D5ZZT8	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	17
66	15.20	17.67	31.49	W5I5X1	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	12
67	15.06	34.74	13.45	A0A0E0NCE4	Uncharacterized protein	<i>O. rufipogon</i>	30
68	14.95	59.58	61.71	A0A1D5XGF4	Beta-amylase	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	51
69	14.90	14.92	43.28	A0A1D6CWE1	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	38
70	14.84	14.88	12.04	Q9SAU8	HSP70	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	7
71	14.56	14.62	49.54	I7KM78	Gamma-gliadin	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	24
72	14.29	14.36	18.80	T1MSW5	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum urartu</i>	8
73	14.25	14.29	56.64	A0A1B2LQA9	A. alpha amylase trypsin inhibitor	<i>A. sativa</i>	9
74	14.24	14.28	36.70	Q9AXH7	1-Cys peroxiredoxin	<i>T. timopheevii</i> subsp. <i>araraticumcum turgidum</i> subsp. <i>durum</i>	7
75	14.17	14.26	#####	P82901	Non-specific lipid-transfer protein 2P	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	12
76	14.13	14.18	19.48	M8BDX3	Uncharacterized protein	<i>O. sativa</i> subsp. <i>japonica</i>	7
77	14.05	14.05	27.06	A8HNN7	Z1D alpha zein protein	<i>Zea mays</i>	14
78	14.02	14.29	71.33	Q5W6A3	Os05g0328800 protein	<i>O. sativa</i> subsp. <i>japonica</i>	30
79	14.00	18.51	31.25	A0A0E0AHA2	Uncharacterized protein	<i>O. meridionalis</i>	23
80	13.64	13.78	25.70	Q7X6I8	OJ000315_02.8 protein	<i>O. sativa</i> subsp. <i>japonica</i>	9
81	13.56	13.70	57.05	Q5Z9M9	Os06g0507200 protein	<i>O. sativa</i> subsp. <i>japonica</i>	22
82	13.22	13.33	24.86	W5D5L4	Fructose-bisphosphate aldolase	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	8
83	13.15	13.19	19.67	Q946V2	Legumin 1	<i>Zea mays</i>	7

84	13.14	18.56	21.80	Q9SYT3	22kD alpha zein 5	<i>Zea mays</i>	23
85	13.11	13.13	36.47	A0A1D5YGW1	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	7
86	13.01	19.11	32.16	M8C2Y1	Serpin-Z2B	<i>O. sativa subsp. japonica</i>	14
87	12.98	13.03	26.73	C3VNF1	Malate dehydrogenase	<i>T. timopheevii subsp. araraticumcum aestivum</i>	7
88	12.96	18.37	43.93	P27919	Avenin	<i>A. sativa</i>	23
89	12.88	14.62	34.54	I4EP67	Avenin	<i>T. timopheevii subsp. araraticumcum spelta</i>	27
90	12.81	12.83	65.00	Q2XX25	Non-specific lipid-transfer protein	<i>Zea mays subsp. parviglumis</i>	9
91	12.74	12.78	42.47	A2Y665	Putative uncharacterized protein	<i>O. sativa subsp. indica</i>	14
92	12.47	12.48	40.50	M8ANS4	Avenin-3	<i>T. timopheevii subsp. araraticumcum urartu</i>	14
93	12.43	36.19	43.06	B2BZC7	LMW-m glutenin subunit 0154A5-M	<i>T. timopheevii subsp. araraticumcum aestivum</i>	58
94	12.42	12.44	71.13	B9VRI3	Alpha-amylase inhibitor CM16 subunit	<i>T. timopheevii subsp. araraticumcum spelta</i>	34
95	12.30	12.42	10.94	M7YE46	Vicilin-like antimicrobial peptides 2-2	<i>T. timopheevii subsp. araraticumcum urartu</i>	8
96	12.19	12.20	24.72	A0A1D5Z6P0	rRNA N-glycosidase	<i>T. timopheevii subsp. araraticumcum aestivum</i>	6
97	12.16	14.39	15.21	A0A1D5VCN0	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	7
98	12.00	12.09	46.62	H2DLU3	Puroindoline b	<i>T. timopheevii subsp. araraticumcum aestivum</i>	20
99	11.99	12.06	28.71	A0A1D6BR50	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	9
100	11.96	28.28	33.33	I0IT55	Alpha/beta-gliadin	<i>T. timopheevii subsp. araraticumcum aestivum</i>	30
101	11.96	12.00	59.76	W5D637	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	6
102	11.89	13.43	15.12	I1PE38	Uncharacterized protein	<i>O. glaberrima</i>	7
103	11.85	12.11	34.14	G1JSL4	Peroxygenase 1	<i>A. sativa</i>	7
104	11.82	14.12	64.83	A0A1B2LQE8	A. alpha amylase trypsin inhibitor	<i>A. sativa</i>	10
105	11.77	18.57	92.74	Q5MD68	0.19 dimeric alpha-amylase inhibitor	<i>T. timopheevii subsp. araraticumcum aestivum</i>	29

106	11.75	11.93	28.38	W5EFT2	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	7
107	11.69	11.94	6.99	O04074	Starch branching enzyme 1	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	6
108	11.62	26.89	79.31	R7W9W1	Alpha-amylase/trypsin inhibitor CM1	<i>O. sativa</i> subsp. <i>japonica</i>	34
109	11.56	11.76	54.05	V5RL87	Puroindoline	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	15
110	11.38	14.23	13.20	Q9FE55	Protein disulfide-isomerase	<i>T. timopheevii</i> subsp. <i>araraticumcum turgidum</i> subsp. <i>durum</i>	7
111	11.26	13.47	58.82	A0A1D6C0D3	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	11
112	11.25	11.30	57.29	R7WGD7	Uncharacterized protein	<i>O. sativa</i> subsp. <i>japonica</i>	7
113	11.12	11.20	22.14	Q6H6C7	Phosphoglycerate kinase	<i>O. sativa</i> subsp. <i>japonica</i>	7
114	11.01	11.20	27.63	A0A1D5TYI6	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	7
115	11.00	11.04	44.14	M8BAK8	Uncharacterized protein	<i>O. sativa</i> subsp. <i>japonica</i>	8
116	10.86	10.89	40.63	I3NM41	Oleosin	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	14
117	10.68	12.79	61.05	I1PUP1	Uncharacterized protein	<i>O. glaberrima</i>	8
118	10.60	11.13	35.48	Q5BLQ9	Grain softness protein-1B1	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	11
119	10.44	14.53	13.71	A0A0D9WMW0	Sucrose synthase	<i>O. meridionalis</i>	10
120	10.40	10.41	43.71	Q41518	Single-stranded nucleic acid binding protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	7
121	10.29	10.36	19.28	W5D4F5	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	5
122	10.07	13.96	33.48	B6SII2	Putative uncharacterized protein	<i>Zea mays</i>	15
123	10.07	10.07	27.33	I1PEM1	Oleosin	<i>O. glaberrima</i>	10
124	10.00	10.00	45.30	M0V3U0	Non-specific lipid-transfer protein	<i>H. vulgare</i> subsp. <i>vulgare</i>	5
125	9.92	13.92	69.23	B6SI37	Embryo specific protein1	<i>Zea mays</i>	8
126	9.83	11.93	46.15	A0A1B2LQC0	A. alpha amylase trypsin inhibitor	<i>A. sativa</i>	7
127	9.80	9.85	15.25	M4Q9V0	Enolase	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	5

128	9.77	11.85	37.84	Q946V1	Hageman factor inhibitor	<i>Zea mays</i>	6
129	9.73	13.38	27.36	W5BB88	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	9
130	9.69	9.82	7.59	Q2QV45	70 kDa heat shock protein	<i>O. sativa subsp. japonica</i>	6
131	9.67	9.77	11.34	W5D4W6	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	6
132	9.53	55.95	52.91	A2Z708	Uncharacterized protein	<i>O. sativa subsp. indica</i>	99
133	9.49	9.52	36.84	Q93W25	Peptidyl-prolyl cis-trans isomerase	<i>T. timopheevii subsp. araraticumcum aestivum</i>	7
134	9.41	18.80	12.97	I1PVJ3	Pyruvate, phosphate dikinase	<i>O. glaberrima</i>	11
135	9.33	21.40	34.94	B6UKW0	Gamma-gliadin	<i>Aegilops bicornis</i>	38
136	9.33	9.37	19.02	A0A1D5VIX2	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	5
137	9.27	9.34	21.45	A0A1D5XF71	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	5
138	9.22	9.25	6.48	M8A571	Elongation factor 2	<i>T. timopheevii subsp. araraticumcum urartu</i>	5
139	9.08	9.16	6.39	Q7X834	OSJNBa0019G23.2 protein	<i>O. sativa subsp. japonica</i>	6
140	9.05	25.09	45.73	Q9ST58	Serpin-Z1C	<i>T. timopheevii subsp. araraticumcum aestivum</i>	17
141	8.98	38.38	40.89	R9XUP7	Alpha-gliadin	<i>T. timopheevii subsp. araraticumcum aestivum</i>	78
142	8.82	8.85	35.50	A0A1D6B1J0	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	5
143	8.79	8.82	25.23	A8HNPO	Z1D alpha zein protein	<i>Zea mays</i>	8
144	8.77	8.93	29.46	W4ZN68	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	11
145	8.71	17.91	52.44	Q0Q5D9	Globulin 1	<i>T. timopheevii subsp. araraticumcum aestivum</i>	13
146	8.58	27.84	37.26	F8SGQ3	Low-molecular-weight glutenin subunit	<i>T. timopheevii subsp. araraticumcum aestivum</i>	75
147	8.45	8.49	14.52	B6TEC1	Sorghum bicolor tol dehydrogenase	<i>Zea mays</i>	6
148	8.39	31.59	57.04	A0A1D5ZBL7	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	21
149	8.35	8.37	16.02	I1P1X6	Glyceraldehyde-3-phosphate dehydrogenase	<i>O. glaberrima</i>	5

150	8.26	9.95	63.40	A1YQF0	Os05g0331532 protein	<i>O. sativa subsp. japonica</i>	21
151	8.24	38.65	31.88	Q38780	11S globulin	<i>A. sativa</i>	54
152	8.18	8.20	56.34	P81713	Bowman-Birk type trypsin inhibitor	<i>T. timopheevii subsp. araraticumcum aestivum</i>	8
153	8.16	60.72	62.91	W5EKI0	Beta-amylase	<i>T. timopheevii subsp. araraticumcum aestivum</i>	57
154	8.16	8.28	4.37	Q9FUU7	Starch branching enzyme 2	<i>T. timopheevii subsp. araraticumcum aestivum</i>	4
155	8.12	8.13	15.76	W5AC28	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	4
156	8.10	10.18	28.64	G8ZCW5	Avenin protein	<i>T. timopheevii subsp. araraticumcum spelta</i>	15
157	8.09	8.21	15.63	W5BE38	Oleosin	<i>T. timopheevii subsp. araraticumcum aestivum</i>	4
158	8.07	12.91	31.63	A0A0K2QJC8	Alpha/beta-gliadin	<i>T. timopheevii subsp. araraticumcum aestivum</i>	16
159	8.02	8.13	7.22	A0A1D5ST13	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	4
160	8.00	45.26	35.53	Q6WZC3	Low molecular weight glutenin subunit	<i>T. timopheevii subsp. araraticumcum aestivum</i>	60
161	8.00	12.00	59.76	M7ZCN8	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum urartu</i>	6
162	7.96	9.85	63.51	A0A1B2LQD4	A. alpha amylase trypsin inhibitor-2	<i>A. sativa</i>	7
163	7.93	8.00	30.91	Q8H0B8	Cold regulated protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	4
164	7.86	10.62	47.44	Q0IP02	Os12g0269200 protein	<i>O. sativa subsp. japonica</i>	40
165	7.81	7.86	27.04	A0A1D5SVU1	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	4
166	7.72	17.75	60.56	Q41888	Prolamin PPROL 17	<i>Zea mays</i>	54
167	7.69	7.79	11.14	W5FAY5	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	4
168	7.60	11.77	11.73	J3L8Y0	Uncharacterized protein	<i>O. brachyantha</i>	7
169	7.59	7.63	12.77	M8BYD7	Purple acid phosphatase 3	<i>O. sativa subsp. japonica</i>	4
170	7.45	7.52	13.28	Q9XF30	Putative uncharacterized protein	<i>O. sativa subsp. indica</i>	5
171	7.43	37.88	37.57	A0A1D5S0Z9	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	27

172	7.40	41.77	27.78	B7U6L5	Globulin 3B	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	26
173	7.40	7.44	36.90	A3KLI1	Dehydrin DHN1	<i>Zea mays</i>	6
174	7.39	7.43	37.09	Q7XC37	Nucleoside diphosphate kinase	<i>O. sativa</i> subsp. <i>japonica</i>	5
175	7.37	11.58	12.16	Q9ARI0	ADP-glucose pyrophosphorylase large subunit isoform	<i>O. sativa</i> subsp. <i>japonica</i>	6
176	7.33	7.50	24.18	A0A1B5GE57	Caleosin	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	4
177	7.28	10.96	59.60	B6UKM7	Gamma-gliadin	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	26
178	7.25	9.85	32.26	A0A0E0Q5F7	Uncharacterized protein	<i>O. rufipogon</i>	22
179	7.25	7.33	10.67	A7UME2	Xylanase inhibitor 725ACCN	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	4
180	7.24	7.37	17.76	W5BPU1	40S ribosomal protein SA	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	4
181	7.14	7.28	28.99	T1MEJ3	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum urartu</i>	5
182	7.09	7.13	10.79	I1HXL8	Tubulin beta chain	<i>Brachypodium</i> <i>distachyon</i>	4
183	7.01	7.05	15.83	Q6JBL5	Chitinase	<i>Zea mays</i> subsp. <i>parviglumis</i>	4
184	6.95	9.10	18.04	A0A0D3HQM8	Non-specific lipid-transfer protein	<i>O. meridionalis</i>	9
185	6.87	46.07	34.66	R9XVA5	LMW-GS	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	86
186	6.83	15.42	52.94	A0A1B2LQD8	A. alpha amylase trypsin inhibitor	<i>A. sativa</i>	9
187	6.79	8.72	13.95	W5BUF4	Caleosin	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	4
188	6.76	6.82	14.06	W5IA32	Formate dehydrogenase, mitochondrial	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	4
189	6.75	11.67	67.24	M8BYH8	Non-specific lipid-transfer protein	<i>O. sativa</i> subsp. <i>japonica</i>	16
190	6.71	6.79	33.77	B2FH40	16.9a kDa heat-shock protein	<i>T. timopheevii</i> subsp. <i>araraticumcum spelta</i>	4
191	6.67	11.24	36.27	V5M3L1	Avenin-like protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	20
192	6.66	6.70	7.47	W5FWT6	Aldehyde dehydrogenase 7B1	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	3
193	6.58	6.61	10.90	A0A1D5ZX81	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	4

194	6.48	31.96	37.98	A0A1P8DT36	Alpha-gliadin storage protein	<i>T. timopheevii</i> subsp. <i>araraticumcum spelta</i>	40
195	6.47	6.49	32.14	Q01I75	OSIGBa0101P20.7 protein	<i>O. sativa</i>	3
196	6.34	15.82	21.49	Q7XYX4	High-molecular-weight glutenin x-type subunit	<i>Elymus elongatus</i>	43
197	6.31	6.33	6.48	W5E0G4	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	4
198	6.30	13.80	28.07	Q38769	Permatin	<i>A. sativa</i>	7
199	6.26	13.08	13.46	Q9S768	Alanine aminotransferase	<i>O. sativa</i>	6
200	6.26	10.38	63.64	Q41540	CM 17 protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	25
201	6.24	25.72	59.28	M8BV45	Alpha-amylase/trypsin inhibitor CM3	<i>O. sativa</i> subsp. <i>japonica</i>	54
202	6.22	6.34	22.79	Q53WS1	Alpha 1 purothionin	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	5
203	6.20	14.23	68.82	Q53WS3	Em protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	11
204	6.20	13.06	56.40	D2KFH1	Avenin-like a4	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	24
205	6.18	9.86	35.37	Q9FVJ4	CDS_GSP-1	<i>O. sativa</i> subsp. <i>japonica</i>	10
206	6.18	8.23	22.82	Q946V3	Alpha globulin	<i>Zea mays</i>	4
207	6.17	6.32	8.70	M8B2K7	ATP synthase subunit beta	<i>O. sativa</i> subsp. <i>japonica</i>	3
208	6.14	10.49	45.80	A0A1D5XMK2	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	8
209	6.10	32.56	37.50	A0A0K2QJA2	Alpha/beta-gliadin	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	48
210	6.08	6.14	17.29	CAS1_BOVIN			4
211	6.06	8.08	38.55	A0A1D5Y5R8	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	5
212	6.05	10.16	43.84	A0A1D6DC72	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	17
213	6.04	12.50	52.50	Q40653	Allergenic protein	<i>O. sativa</i> subsp. <i>japonica</i>	27
214	6.03	6.08	25.22	A0A1D6ACI6	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	3
215	6.02	12.43	38.30	H9A6C4	Gamma-gliadin	<i>O. sativa</i> subsp. <i>japonica</i>	16

216	6.01	6.01	28.77	A0A1D5SGZ4	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	3
217	6.00	12.60	64.58	Q9FEK9	Lipid transfer protein	<i>T. timopheevii</i> subsp. <i>araraticumcum</i> <i>turgidum</i> subsp. <i>durum</i>	12
218	6.00	8.00	26.74	P21641	Oleosin Zm-II	<i>Zea mays</i>	4
219	6.00	7.85	50.53	M8BVH7	Putative non-specific lipid-transfer protein	<i>O. sativa</i> subsp. <i>japonica</i>	6
220	6.00	6.00	31.30	Q38770	Type V Thionin	<i>O. sativa</i> subsp. <i>japonica</i>	4
221	6.00	6.00	26.90	A0A1D6B171	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	4
222	6.00	6.00	16.51	A8HNN2	Z1D alpha zein protein	<i>Zea mays</i>	5
223	6.00	6.00	20.28	W5D5Z6	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	3
224	5.98	7.92	12.10	W5EI90	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	4
225	5.97	6.06	27.91	M7ZWD9	Nuclear transport factor 2	<i>T. timopheevii</i> subsp. <i>araraticumcum urartu</i>	3
226	5.96	20.68	38.29	A0A0S2GJR0	Low-molecular-weight glutenin subunit	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	53
227	5.91	33.77	51.96	K7X1L1	Alpha-gliadin	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	40
228	5.89	5.97	16.92	A0A1D5UB33	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	3
229	5.88	5.95	16.89	M8BUR6	Uncharacterized protein	<i>O. sativa</i> subsp. <i>japonica</i>	5
230	5.80	22.05	18.74	J9Q8Q6	High molecular weight glutenin subunit 1Ay protein	<i>T. timopheevii</i> subsp. <i>araraticumcum</i> <i>dicoccoides</i>	38
231	5.77	5.85	7.43	A0A077RS68	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	3
232	5.65	14.54	91.13	A4GG11	Dimeric alpha-amylase inhibitor	<i>Aegilops longissima</i>	26
233	5.64	5.70	23.21	Q68HV3	LEA protein 12	<i>O. sativa</i> subsp. <i>japonica</i>	3
234	5.54	5.62	23.21	F2DWT1	Predicted protein	<i>H. vulgare</i> subsp. <i>vulgare</i>	3
235	5.51	23.66	24.85	Q6ESW6	Glutelin	<i>O. sativa</i> subsp. <i>japonica</i>	40
236	5.47	5.55	19.67	D2KFH0	Gliadin/avenin-like seed protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	3

237	5.45	5.84	4.73	Q9AUV8	Alpha-1,4 glucan phosphorylase	<i>O. sativa</i> subsp. <i>japonica</i>	6
238	5.38	5.46	13.02	W5ERW2	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	3
239	5.37	11.24	28.32	W5DWP8	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	7
240	5.34	5.48	4.89	W5AC96	Carboxypeptidase	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	3
241	5.21	11.72	22.72	H6ULJ1	75k gamma secalin	<i>Secale strictum</i>	12
242	5.18	12.07	26.56	B6UGP0	Putative uncharacterized protein	<i>Zea mays</i>	20
243	5.18	7.32	46.94	R4I506	Vromindoline 1.3	<i>A. sativa</i>	10
244	5.09	10.30	58.82	Q6L5L7	Embryonic abundant protein	<i>Bromus inermis</i>	7
245	5.04	5.11	11.30	Q2XXG4	Ribosome inactivating protein 1	<i>Zea mays</i> subsp. <i>parviglumis</i>	3
246	4.98	5.12	13.75	M7Z0X1	Aldose reductase	<i>T. timopheevii</i> subsp. <i>araraticumcum urartu</i>	3
247	4.96	5.24	4.72	A0A1D6LPR1	Glycosyl hydrolase family 31 protein	<i>Zea mays</i>	3
248	4.95	5.04	27.10	W4ZXB7	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	3
249	4.93	42.84	41.16	A0A0E3Z7F7	Alpha-gliadin	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	49
250	4.86	4.92	33.80	W0NU33	Vromindoline VIN3	<i>T. timopheevii</i> subsp. <i>araraticumcum spelta</i>	6
251	4.84	4.94	15.75	O64392	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i> win-1	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	4
252	4.65	13.57	49.31	A0A1B2LQC2	A. alpha amylase trypsin inhibitor	<i>A. sativa</i>	9
253	4.63	10.84	29.09	B7ERQ1	Peroxiredoxin	<i>O. sativa</i> subsp. <i>japonica</i>	5
254	4.59	4.62	4.29	A0A1D6D1Q3	Pyrophosphate--fructose 6-phosphate 1-phosphotransferase subunit beta	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	2
255	4.57	4.58	4.52	W5XK42	ATP synthase subunit alpha	<i>Aegilops longissima</i>	2
256	4.53	4.57	19.13	B6TJ90	Histone H4	<i>Zea mays</i>	4
257	4.53	4.55	20.98	N1QTW5	Trypsin inhibitor CMc	<i>O. sativa</i> subsp. <i>japonica</i>	6

258	4.51	4.54	13.17	A0A1D5ST87	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	2
259	4.48	55.05	30.14	D3UAL8	Low molecular weight glutenin subunit B3-3	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	89
260	4.41	12.36	10.25	W0G9U6	Starch synthase, chloroplastic/amyloplastic	<i>T. timopheevii</i> subsp. <i>araraticumcum urartu</i>	5
261	4.40	4.43	5.50	W5FGH0	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	2
262	4.38	41.99	38.22	P14812	12S seed storage globulin 2	<i>A. sativa</i>	51
263	4.35	10.51	42.32	Q548E7	19kD alpha zein B2	<i>Zea mays</i>	11
264	4.28	4.38	8.84	W5AB71	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	3
265	4.27	4.33	8.30	W4ZTE4	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	2
266	4.26	25.60	40.00	R4JAP5	Low-molecular-weight glutenin subunit	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	41
267	4.25	4.34	7.50	R9R4F6	Alpha amylase inhibitor	<i>O. sativa</i> subsp. <i>indica</i>	2
268	4.24	11.29	44.22	U6A2I2	Vromindoline VIN2	<i>T. timopheevii</i> subsp. <i>araraticumcum spelta</i>	12
269	4.23	34.29	24.55	A0A1D5XS09	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	24
270	4.23	6.48	22.15	I1QAS5	Nucleoside diphosphate kinase	<i>O. glaberrima</i>	3
271	4.22	4.28	18.54	Q0WX48	Thaumatococcal xylanase inhibitor	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	3
272	4.22	4.24	8.60	R7WEA5	GTP-binding nuclear protein	<i>O. sativa</i> subsp. <i>japonica</i>	2
273	4.18	19.15	34.42	Q9ST57	Serpin-Z2A	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	14
274	4.18	4.20	12.00	W5D067	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	2
275	4.17	15.39	40.65	Q94G96	Gamma-gliadin	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	37
276	4.16	6.25	9.79	A0A0E0P2F5	Uncharacterized protein	<i>O. rufipogon</i>	4
277	4.14	17.09	35.92	R9XU99	Gamma-gliadin	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	23
278	4.13	10.21	40.80	A0A1D6A2L5	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	7
279	4.12	30.82	34.95	O49258	12s globulin	<i>A. sativa</i>	46

280	4.12	4.13	7.29	M8BK19	Glucan endo-1,3-beta-glucosidase GIV	<i>O. sativa subsp. japonica</i>	2
281	4.11	19.03	74.68	W5D003	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	21
282	4.11	8.17	15.54	Q8GVI3	Alpha-amylase /trypsin inhibitor	<i>O. sativa subsp. japonica</i>	4
283	4.11	4.12	17.41	A0A1D6A149	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	3
284	4.10	12.80	27.02	Q41603	LMW glutenin	<i>T. timopheevii subsp. araraticumcum turgidum subsp. durum</i>	20
285	4.09	12.36	46.20	B8B8F6	Putative uncharacterized protein	<i>O. sativa subsp. indica</i>	10
286	4.09	5.80	6.89	Q7M1Z8	Globulin-2	<i>Zea mays</i>	3
287	4.08	10.80	46.82	Q2A780	Putative avenin-like a	<i>T. timopheevii subsp. araraticumcum spelta</i>	21
288	4.08	4.09	12.10	W4ZMR5	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	2
289	4.06	6.08	14.19	M8B2V2	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum urartu</i>	3
290	4.05	4.12	13.07	P93602	PUP88 protein; member of trypsin/a-amylase inhibitors family from cereals	<i>T. timopheevii subsp. araraticumcum aestivum</i>	2
291	4.03	20.29	24.75	A0A1D5Z1A1	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	19
292	4.03	4.03	12.95	I1HK96	Uncharacterized protein	<i>Brachypodium distachyon</i>	2
293	4.01	11.26	34.76	G8ZCU3	Avenin protein	<i>T. timopheevii subsp. araraticumcum spelta</i>	19
294	4.01	4.01	8.82	A0A1D5VJH0	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	2
295	4.00	41.32	37.96	Q0Q5D3	Y-type HMW glutenin	<i>T. timopheevii subsp. araraticumcum aestivum</i>	72
296	4.00	39.63	32.63	A0A023WGF7	Alpha-gliadin	<i>T. timopheevii subsp. araraticumcum aestivum</i>	40
297	4.00	32.19	38.06	K7X0N8	Alpha-gliadin	<i>T. timopheevii subsp. araraticumcum aestivum</i>	41
298	4.00	19.97	57.64	Q0Q5E3	Globulin 1	<i>T. timopheevii subsp. araraticumcum aestivum</i>	16
299	4.00	19.79	48.44	W5FN32	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	11
300	4.00	14.88	11.93	I1HT87	Uncharacterized protein	<i>Brachypodium distachyon</i>	7

301	4.00	14.58	51.19	Q2A784	Avenin-like a1	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	32
302	4.00	14.00	45.63	Q8H4M4	Allergenic protein	<i>O. sativa</i> subsp. <i>japonica</i>	10
303	4.00	10.05	30.49	Q9FVJ5	GSP-A1	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	9
304	4.00	10.01	31.85	I1Q921	Uncharacterized protein	<i>O. glaberrima</i>	10
305	4.00	9.68	16.61	Q93V80	Granule-bound starch synthase	<i>Zea mays</i>	4
306	4.00	8.41	63.27	Q2PCC3	Type 2 non specific lipid transfer protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	8
307	4.00	7.38	26.67	A0A1D6DG60	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	6
308	4.00	7.08	18.32	B4G1G1	Desiccation-related protein PCC13-62	<i>Zea mays</i>	6
309	4.00	6.00	31.31	A0A1D6F5A7	Putative non-specific lipid- transfer protein 2	<i>Zea mays</i>	5
310	4.00	5.38	12.12	W5GW81	Salt-induced YSK2 dehydrin 3	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	6
311	4.00	4.00	15.67	W5FAI9	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	2
312	4.00	4.00	20.16	W5EC46	Non-specific lipid-transfer protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	2
313	4.00	4.00	13.67	R7W9Z9	Uncharacterized protein	<i>O. sativa</i> subsp. <i>japonica</i>	2
314	4.00	4.00	8.43	R7W9M2	Putative aquaporin TIP3-1	<i>O. sativa</i> subsp. <i>japonica</i>	2
315	4.00	4.00	2.85	Q8GT15	Os01g0947000 protein	<i>O. sativa</i> subsp. <i>japonica</i>	2
316	4.00	4.00	41.94	M8B440	Uncharacterized protein	<i>O. sativa</i> subsp. <i>japonica</i>	2
317	4.00	4.00	8.33	K3XYM7	Uncharacterized protein	<i>Setaria italica</i>	2
318	4.00	4.00	3.27	F2CSX3	Predicted protein	<i>H. vulgare</i> subsp. <i>vulgare</i>	2
319	4.00	4.00	6.75	B4F9T3	Putative uncharacterized protein	<i>Zea mays</i>	2
320	4.00	4.00	14.37	A0A1D5ZZ07	Oleosin	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	4
321	4.00	4.00	49.38	P30569	EC protein I/II	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	2
322	4.00	4.00	14.74	CASK_BOVIN			2

323	3.90	4.18	20.00	M8CGQ1	Uncharacterized protein	<i>O. sativa subsp. japonica</i>	3
324	3.87	4.01	4.83	B6SLF6	Antimicrobial peptide MBP-1	<i>Zea mays</i>	3
325	3.85	19.76	36.07	W8Q2K7	Farinin protein	<i>Brachypodium distachyon</i>	40
326	3.85	3.92	7.49	B6SI09	Aquaporin TIP3.1	<i>Zea mays</i>	2
327	3.83	3.95	16.81	F2D1K9	Predicted protein	<i>H. vulgare subsp. vulgare</i>	2
328	3.81	3.97	2.86	W5G4R7	Pyrophosphate--fructose 6-phosphate 1-phosphotransferase subunit alpha	<i>T. timopheevii subsp. araraticumcum aestivum</i>	2
329	3.81	3.92	3.89	R7W1A5	Polyadenylate-binding protein	<i>O. sativa subsp. japonica</i>	2
330	3.80	10.38	51.77	A3BHT2	Uncharacterized protein	<i>O. sativa subsp. japonica</i>	11
331	3.80	8.08	37.42	Q0KIW2	Glycine-rich RNA-binding protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	5
332	3.79	6.30	4.96	K22E_HUMAN			3
333	3.78	3.97	2.49	F2DL45	Predicted protein	<i>H. vulgare subsp. vulgare</i>	3
334	3.76	3.87	15.50	A0A1D6LDG1	Seed maturation protein	<i>Zea mays</i>	2
335	3.75	3.85	9.33	M8A2L5	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum urartu</i>	2
336	3.68	6.48	19.34	W5AY74	Caleosin	<i>T. timopheevii subsp. araraticumcum aestivum</i>	3
337	3.66	3.81	17.32	A0A1D6D5M0	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	4
338	3.66	3.77	16.20	Q8RZH0	Putative uncharacterized protein	<i>O. sativa subsp. japonica</i>	2
339	3.64	3.80	5.54	R7W8V8	Tubulin alpha chain	<i>O. sativa subsp. japonica</i>	2
340	3.63	3.79	18.18	C0PPC9	Uncharacterized protein	<i>Zea mays</i>	3
341	3.62	3.83	4.59	W5I0B0	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	2
342	3.61	3.79	5.18	Q6Z782	Os02g0202400 protein	<i>O. sativa subsp. japonica</i>	2
343	3.59	7.90	16.02	K3YIG5	Glyceraldehyde-3-phosphate dehydrogenase	<i>Setaria italica</i>	4

344	3.59	7.59	38.71	A0A1E5VL69	Late embryogenesis abundant protein EMB564	<i>T. timopheevii</i> subsp. <i>araraticumcum spelta</i>	4
345	3.54	3.82	16.00	N1QZ03	Uncharacterized protein	<i>O. sativa</i> subsp. <i>japonica</i>	3
346	3.54	3.70	5.26	W5GYF2	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	2
347	3.51	3.61	4.52	N1QTB1	Vacuolar-sorting receptor 4	<i>O. sativa</i> subsp. <i>japonica</i>	2
348	3.44	3.52	26.83	W5EL62	40S ribosomal protein S21	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	2
349	3.41	3.56	5.16	W5ES41	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	2
350	3.33	3.47	6.41	M8BBZ6	Uncharacterized protein	<i>O. sativa</i> subsp. <i>japonica</i>	2
351	3.32	3.45	8.15	M8BD70	Ras-related protein RIC1	<i>O. sativa</i> subsp. <i>japonica</i>	2
352	3.31	3.42	13.43	A0A1D5T6F6	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	2
353	3.31	3.41	7.07	M7ZNI1	Putative calcium-binding protein CML7	<i>T. timopheevii</i> subsp. <i>araraticumcum urartu</i>	2
354	3.26	3.36	4.32	W5BKC3	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	2
355	3.24	5.66	27.94	B8YM21	Beta purothionin	<i>T. timopheevii</i> subsp. <i>araraticumcum urartu</i>	7
356	3.19	4.32	34.44	Q9S6Y2	Alpha purothionin	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	5
357	3.12	3.21	6.43	A0A1D5WYI6	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	2
358	3.11	3.18	17.33	Q6E648	MPI	<i>Tripsacum dactyloides</i>	2
359	3.03	3.29	25.44	A0A1D6CR43	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	3
360	3.01	3.08	7.02	W5G8P6	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	2
361	3.00	3.07	5.66	Q7XLP7	OSJNBa0044M19.9 protein	<i>O. sativa</i> subsp. <i>japonica</i>	2
362	3.00	3.06	5.40	J3MTA1	Uncharacterized protein	<i>O. brachyantha</i>	2
363	2.99	5.25	7.73	Q03865	Vicilin-like embryo storage protein	<i>Zea mays</i>	5
364	2.99	3.06	7.41	C0HH10	Dirigent protein	<i>Zea mays</i>	2
365	2.98	3.12	4.33	Q9ZTP0	Putative uncharacterized protein Ose705	<i>O. sativa</i>	2

366	2.96	3.03	11.50	J3M9C0	Uncharacterized protein	<i>O. brachyantha</i>	2
367	2.91	3.02	25.83	Q8GVK7	13 kDa prolamin	<i>O. sativa subsp. japonica</i>	11
368	2.90	3.01	2.21	R4ZAN8	L-2	<i>T. timopheevii subsp. araraticumcum kiharae</i>	1
369	2.90	2.97	13.93	I1QLJ5	Uncharacterized protein	<i>O. glaberrima</i>	2
370	2.85	16.12	15.32	A0A1D5SU51	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	10
371	2.85	2.95	3.44	M8B1Z5	Lactoylglutathione lyase	<i>O. sativa subsp. japonica</i>	1
372	2.84	2.91	2.18	Q6Z8I7	Os02g0752200 protein	<i>O. sativa subsp. japonica</i>	2
373	2.83	33.18	26.58	B2LWZ7	Low molecular weight glutenin subunit I2	<i>Aegilops comosa</i>	50
374	2.83	2.90	14.17	W5I301	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	2
375	2.81	14.24	43.96	B6SYN0	Putative uncharacterized protein	<i>Zea mays</i>	14
376	2.77	33.19	34.47	A5HMG1	HMW glutenin subunit 1Bx13	<i>T. timopheevii subsp. araraticumcum aestivum</i>	63
377	2.76	11.49	38.86	P0CZ08	Avenin-like a3	<i>T. timopheevii subsp. araraticumcum aestivum</i>	21
378	2.75	11.48	49.30	C3VWV8	Dimeric alpha-amylase inhibitor	<i>Secale cereale</i>	22
379	2.72	2.79	13.33	W5ACP2	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	2
380	2.69	2.90	21.79	M7ZZ14	Defensin SD2	<i>T. timopheevii subsp. araraticumcum urartu</i>	3
381	2.66	2.72	8.14	W5E549	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	1
382	2.66	2.72	4.03	M8A9J7	Catalase	<i>T. timopheevii subsp. araraticumcum urartu</i>	2
383	2.65	2.82	4.67	W5I9I6	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	2
384	2.61	2.72	13.33	Q6Z0I0	Os08g0327700 protein	<i>O. sativa subsp. japonica</i>	2
385	2.58	40.14	42.02	A1YQH5	Glutelin	<i>O. sativa subsp. japonica</i>	67
386	2.57	22.29	27.85	A0A0K2QJ82	Alpha/beta-gliadin	<i>T. timopheevii subsp. araraticumcum aestivum</i>	24
387	2.56	2.59	7.51	W5G1S5	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	1

388	2.54	7.34	6.25	A0A0E0JM18	Uncharacterized protein	<i>O. punctata</i>	4
389	2.54	4.12	18.23	L0L5H3	Gliadin-like avenin	<i>A. sativa</i>	6
390	2.54	2.57	27.72	A0A1D6BFJ3	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	2
391	2.53	2.57	9.90	W5GGU0	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	1
392	2.52	2.56	4.60	W5ECL2	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	1
393	2.50	18.19	24.47	I0IT62	Alpha/beta-gliadin	<i>T. timopheevii subsp. araraticumcum aestivum</i>	25
394	2.48	4.61	16.40	I1GPB7	Uncharacterized protein	<i>Brachypodium distachyon</i>	4
395	2.47	2.51	12.80	A0A1D5RU62	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	2
396	2.47	2.51	1.81	A0A1D6SDX2	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	2
397	2.46	2.49	12.99	R7W7L2	Uncharacterized protein	<i>O. sativa subsp. japonica</i>	1
398	2.46	2.49	29.70	Q6ZHP6	Os02g0715400 protein	<i>O. sativa subsp. japonica</i>	2
399	2.43	6.72	18.03	B8XU25	Alfa gliadin	<i>T. timopheevii subsp. araraticumcum monococcum</i>	7
400	2.43	2.46	4.45	M8AUC3	Uncharacterized protein	<i>O. sativa subsp. japonica</i>	2
401	2.41	2.51	7.53	Q65XV6	Os05g0111200 protein	<i>O. sativa subsp. japonica</i>	1
402	2.40	2.43	3.13	M8A6E3	Bowman-Birk type trypsin inhibitor	<i>T. timopheevii subsp. araraticumcum urartu</i>	1
403	2.39	2.42	10.87	W5EM63	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	1
404	2.38	2.41	26.88	M8ATI6	Uncharacterized protein	<i>O. sativa subsp. japonica</i>	2
405	2.35	2.90	33.33	Q0DJ38	Os05g0331800 protein	<i>O. sativa subsp. japonica</i>	13
406	2.35	2.38	2.82	A0A1D5XY09	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	3
407	2.32	17.86	27.84	Q5MFP0	Low molecular weight glutenin	<i>T. timopheevii subsp. araraticumcum aestivum</i>	32
408	2.32	10.35	9.17	R9W924	ER molecular chaperone	<i>T. timopheevii subsp. araraticumcum aestivum</i>	5
409	2.31	33.26	39.86	E0Z2G5	Alpha-gliadin storage protein	<i>O. sativa subsp. japonica</i>	43

410	2.31	2.34	1.96	Q40025	Beta-glucosidase	<i>H. vulgare</i>	1
411	2.30	9.48	15.96	W5H4V7	Phosphoglycerate kinase	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	5
412	2.27	2.36	5.53	K3XJ87	Peroxidase	<i>Setaria italica</i>	2
413	2.27	2.29	22.69	M0UY53	Uncharacterized protein	<i>H. vulgare</i> subsp. <i>vulgare</i>	2
414	2.26	16.45	15.16	B5TM09	High molecular weight glutenin subunit 1A γ /Ta-e3	<i>T. timopheevii</i> subsp. <i>araraticumcum</i> <i>monococcum</i>	31
415	2.26	2.37	5.04	W5DYH1	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
416	2.26	2.29	5.51	W5C8D1	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
417	2.25	2.28	3.08	C0PDX9	Dirigent protein	<i>Zea mays</i>	1
418	2.24	2.26	20.27	W5HIB6	Defensin	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
419	2.22	2.32	3.98	B6UHQ3	Plasma membrane associated protein	<i>Zea mays</i>	1
420	2.20	2.22	5.56	W5CY88	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
421	2.18	2.28	1.24	W5FF37	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
422	2.14	4.19	18.31	R4I508	Vromindoline 3.2	<i>A. sativa</i>	4
423	2.13	16.05	48.24	L0L8B6	Gliadin-like avenin	<i>A. sativa</i>	19
424	2.13	9.91	32.12	Q7XZB4	High-molecular-weight glutenin subunit	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	13
425	2.13	2.14	3.63	R7WFJ2	Uncharacterized protein	<i>O. sativa</i> subsp. <i>japonica</i>	1
426	2.11	15.02	10.40	J9UF96	High molecular weight glutenin subunit	<i>T. timopheevii</i> subsp. <i>araraticumcum spelta</i>	30
427	2.11	8.21	45.74	N1QPE2	Uncharacterized protein	<i>O. sativa</i> subsp. <i>japonica</i>	6
428	2.10	2.11	2.15	W5CVJ9	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
429	2.09	5.03	29.41	W5A4Z8	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	3
430	2.09	2.19	27.37	B6UI15	Subtilisin-chymotrypsin inhibitor CI-1B	<i>Zea mays</i>	2
431	2.08	4.11	20.93	W5AQ87	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	2

432	2.08	2.10	4.10	Q60EJ0	Os05g0501700 protein	<i>O. sativa subsp. japonica</i>	1
433	2.07	4.09	3.66	Q10QG3	Cupin family protein, expressed	<i>O. sativa subsp. japonica</i>	2
434	2.06	24.31	26.10	P16315	Glutenin, low molecular weight subunit PTDUCD1	<i>T. timopheevii subsp. araraticumcum aestivum</i>	25
435	2.06	5.34	7.95	J7H390	Glucose-1-phosphate adenylyltransferase	<i>Zea mays</i>	3
436	2.05	10.36	51.42	Q2EPY2	Avenin	<i>A. sativa</i>	16
437	2.05	2.06	6.02	M8CTQ5	Dehydrin DHN1	<i>O. sativa subsp. japonica</i>	1
438	2.05	2.06	5.02	M8B9E6	Aspartate-semialdehyde dehydrogenase	<i>O. sativa subsp. japonica</i>	1
439	2.05	2.05	66.67	Q9S8W4	Alpha-amylase inhibitor	<i>A. sativa</i>	2
440	2.04	20.37	19.37	D0EVP4	LMW-m glutenin subunit	<i>T. timopheevii subsp. araraticumcum aestivum</i>	26
441	2.04	2.05	8.85	W5AP46	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	1
442	2.04	2.05	14.63	A6XER2	Defensin	<i>Zea mays</i>	1
443	2.04	2.04	5.12	Q94JF2	Os01g0705200 protein	<i>O. sativa subsp. japonica</i>	1
444	2.03	25.28	37.61	Q8W3X5	Low-molecular-weight glutenin subunit group 2 type I	<i>T. timopheevii subsp. araraticumcum aestivum</i>	44
445	2.03	4.11	13.21	Q40867	Heat shock protein 17.9	<i>Pennisetum americanum</i>	2
446	2.03	2.04	2.79	W5FSD0	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	1
447	2.03	2.04	9.09	Q8H4M5	Os07g0213600 protein	<i>O. sativa subsp. japonica</i>	1
448	2.03	2.03	7.23	Q2TN84	USP family protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	1
449	2.02	22.51	41.43	W8PUU6	Farinin protein	<i>Brachypodium distachyon</i>	46
450	2.02	11.38	29.32	A0A1D5ZYI0	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	6
451	2.02	9.29	46.00	A0A1D6BIB2	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	6
452	2.02	7.13	11.33	Q3YAF9	B hordein	<i>H. vulgare subsp. vulgare</i>	5
453	2.02	2.44	3.51	A3BQD6	Uncharacterized protein	<i>O. sativa subsp. japonica</i>	1

454	2.02	2.03	3.90	M8BTX4	12-oxophytodienoate reductase 2	<i>O. sativa subsp. japonica</i>	1
455	2.02	2.03	4.89	A0A1D5X5E7	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	1
456	2.02	2.02	15.73	B6T2T4	Nonspecific lipid-transfer protein	<i>Zea mays</i>	1
457	2.02	2.02	7.90	W5B1E5	Superoxide dismutase	<i>T. timopheevii subsp. araraticumcum aestivum</i>	1
458	2.02	2.02	3.14	Q60EH3	Os05g0449600 protein	<i>O. sativa subsp. japonica</i>	1
459	2.02	2.02	2.99	A0A1D5TJ06	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	1
460	2.01	19.98	55.63	C4P617	Monomeric alpha-amylase inhibitor	<i>T. timopheevii subsp. araraticumcum dicoccoides</i>	17
461	2.01	7.21	5.10	B6U0S1	Elongation factor 2	<i>Zea mays</i>	4
462	2.01	6.94	63.40	Q5W740	Os05g0332000 protein	<i>O. sativa subsp. japonica</i>	21
463	2.01	2.02	6.58	S4TKI5	Superoxide dismutase	<i>T. timopheevii subsp. araraticumcum aestivum</i>	1
464	2.01	2.02	8.85	Q65WT5	Os05g0445500 protein	<i>O. sativa subsp. japonica</i>	1
465	2.01	2.02	8.94	A0A1D5UXT7	Cysteine proteinase inhibitor	<i>T. timopheevii subsp. araraticumcum aestivum</i>	1
466	2.01	2.01	2.52	Q8H916	Uncharacterized protein	<i>O. sativa subsp. japonica</i>	1
467	2.01	2.01	13.92	W5G4V0	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	1
468	2.01	2.01	7.81	W5DXN2	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	1
469	2.01	2.01	2.73	Q5QPY3	Glycosyltransferase	<i>T. timopheevii subsp. araraticumcum aestivum</i>	1
470	2.00	60.19	39.65	Q68AN2	LMW-s KS2	<i>T. timopheevii subsp. araraticumcum aestivum</i>	109
471	2.00	60.19	40.77	A7XDG0	Low-molecular-weight glutenin GLU-B3	<i>T. timopheevii subsp. araraticumcum turgidum</i>	104
472	2.00	59.80	40.66	K7XEB9	Low molecular weight glutenin subunit	<i>O. sativa subsp. japonica</i>	97
473	2.00	52.77	45.69	Q0Q5D8	High-molecular-weight glutenin By8	<i>T. timopheevii subsp. araraticumcum aestivum</i>	104
474	2.00	43.46	49.90	Q0E2D2	Glutelin	<i>O. sativa subsp. japonica</i>	78

475	2.00	37.82	32.79	A5JTR3	Alpha-gliadin Gli-Ts4	<i>T. timopheevii</i> subsp. <i>araraticumcum spelta</i>	42
476	2.00	37.27	24.92	A5JJ46	LMW-glutenin LMW-m1	<i>T. timopheevii</i> subsp. <i>araraticumcum spelta</i>	58
477	2.00	31.68	36.22	A0A0E0JY02	Uncharacterized protein	<i>O. punctata</i>	40
478	2.00	28.99	25.64	A0A1G4P206	HMW glutenin i-type subunit 3A	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	31
479	2.00	28.53	39.84	Q08837	<i>T. timopheevii</i> subsp. araraticumcin	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	25
480	2.00	26.12	38.73	Q6PMI9	HMW glutenin subunit Dtx1.5	<i>O. sativa</i> subsp. <i>japonica</i>	63
481	2.00	25.40	22.92	A0A089XB95	Low-molecular-weight glutenin subunit	<i>T. timopheevii</i> subsp. <i>araraticumcum urartu</i>	40
482	2.00	21.83	9.60	A0A0E0CIK2	Uncharacterized protein	<i>O. meridionalis</i>	22
483	2.00	21.58	8.99	M8BLL3	Pyruvate, phosphate dikinase 1, chloroplastic	<i>O. sativa</i> subsp. <i>japonica</i>	11
484	2.00	21.53	64.24	C4P5N2	Monomeric alpha-amylase inhibitor	<i>T. timopheevii</i> subsp. <i>araraticumcum</i> <i>dicoccoides</i>	22
485	2.00	21.11	46.67	Q8S4P7	Thaumatococcus-like protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	12
486	2.00	20.74	19.17	A0A1D6APZ0	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	10
487	2.00	20.04	18.66	B0FTK5	Low molecular weight glutenin subunit	<i>T. timopheevii</i> subsp. <i>araraticumcum spelta</i>	27
488	2.00	19.08	64.05	A0A1B2LQE9	A. alpha amylase trypsin inhibitor	<i>T. timopheevii</i> subsp. <i>araraticumcum spelta</i>	11
489	2.00	19.06	39.76	R9XT02	Gamma-gliadin	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	40
490	2.00	19.06	25.23	Q41877	Zein protein	<i>Zea mays</i>	14
491	2.00	18.69	58.67	A0A1B2LQE6	A. alpha amylase trypsin inhibitor	<i>T. timopheevii</i> subsp. <i>araraticumcum spelta</i>	13
492	2.00	18.38	41.39	W8E1A7	Gamma-gliadin	<i>O. sativa</i> subsp. <i>japonica</i>	29
493	2.00	18.11	16.73	D7RT26	HMW glutenin subunit Gx	<i>T. timopheevii</i> subsp. <i>araraticum</i>	48
494	2.00	15.62	36.36	B6DQD1	Gamma-gliadin	<i>T. timopheevii</i> subsp. <i>araraticumcum spelta</i>	20
495	2.00	15.36	49.65	A0A173DQZ4	Type-b avenin-like protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	32
496	2.00	15.31	23.15	K7X0W1	Low molecular weight glutenin subunit	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	24

497	2.00	15.07	14.20	D5LMF2	Low molecular weight glutenin subunit i3	<i>Aegilops uniaristata</i>	10
498	2.00	14.05	59.15	M1MQ51	Beta-amylase	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	13
499	2.00	12.83	65.00	Q2XX24	Non-specific lipid-transfer protein	<i>Zea mays</i> subsp. <i>parviglumis</i>	9
500	2.00	12.36	9.50	E7DVE3	High molecular weight glutenin subunit Ux2.3	<i>T. timopheevii</i> subsp. <i>araraticumcum spelta</i>	38
501	2.00	12.13	32.16	M0Y227	Uncharacterized protein	<i>H. vulgare</i> subsp. <i>vulgare</i>	21
502	2.00	11.25	28.88	A0A1D6D697	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	7
503	2.00	11.20	35.00	P16347	Endogenous alpha-amylase/subtilisin inhibitor	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	8
504	2.00	9.87	10.44	Q3SAE3	Glucose-1-phosphate adenylyltransferase	<i>Zea mays</i>	5
505	2.00	9.85	63.51	A0A1B2LQC9	A. alpha amylase trypsin inhibitor-2	<i>A. sativa</i>	6
506	2.00	9.78	6.10	Q0D9D0	Os06g0726400 protein	<i>O. sativa</i> subsp. <i>japonica</i>	5
507	2.00	9.78	15.25	W5FPN2	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	5
508	2.00	9.47	43.70	Q2XX37	Non-specific lipid-transfer protein	<i>Zea mays</i> subsp. <i>parviglumis</i>	6
509	2.00	9.29	18.41	A0A1D5W9E0	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	5
510	2.00	8.85	34.16	A0A1D6AHC7	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	5
511	2.00	8.84	28.34	A0A1D5XQU6	Oleosin	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	16
512	2.00	8.23	22.34	B6UH16	Globulin	<i>Zea mays</i>	4
513	2.00	8.00	28.77	M8A1S2	Trypsin/alpha-amylase inhibitor CMX1/CMX3	<i>T. timopheevii</i> subsp. <i>araraticumcum urartu</i>	6
514	2.00	7.79	11.17	E9K174	Actin	<i>T. timopheevii</i> subsp. <i>araraticumcum spelta</i>	4
515	2.00	7.66	3.87	A0A1E5VF27	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum spelta</i>	4
516	2.00	7.48	11.98	K3XJU1	Uncharacterized protein	<i>Setaria italica</i>	4
517	2.00	7.44	36.90	A3KLI0	RAB17 protein	<i>Zea mays</i>	6
518	2.00	6.56	53.85	Q53MW2	Non-specific lipid-transfer protein	<i>O. sativa</i> subsp. <i>japonica</i>	7

519	2.00	6.01	21.01	T1WIP7	Dimeric alpha-amylase inhibitor	<i>T. timopheevii</i> subsp. <i>araraticumcum spelta</i>	4
520	2.00	5.34	4.24	M7ZLY3	Enolase 2	<i>T. timopheevii</i> subsp. <i>araraticumcum urartu</i>	3
521	2.00	5.14	23.33	A0A1D5SUY6	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	3
522	2.00	5.02	15.92	G8CLS2	Grain softness protein	<i>Taeniatherum caput-medusae</i>	6
523	2.00	4.54	13.17	A0A1D5SCU2	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	2
524	2.00	4.21	9.26	A0A0Q3KAB9	Uncharacterized protein	<i>Brachypodium distachyon</i>	5
525	2.00	4.10	12.99	A0A1D6AS82	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	2
526	2.00	4.07	14.19	W5DWQ4	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	2
527	2.00	4.07	14.19	M8AY04	Uncharacterized protein	<i>O. sativa</i> subsp. <i>japonica</i>	2
528	2.00	4.01	12.56	Q00318	Gamma-coixin 22kDa	<i>Coix lacryma-jobi</i>	4
529	2.00	4.00	13.14	Q43245	Oleosin	<i>Zea mays</i>	2
530	2.00	4.00	13.66	I1P9U0	Uncharacterized protein	<i>O. glaberrima</i>	2
531	2.00	4.00	23.89	M8C6U2	Glutaredoxin-C6	<i>O. sativa</i> subsp. <i>japonica</i>	2
532	2.00	4.00	16.13	B6SIZ2	Oleosin	<i>Zea mays</i>	2
533	2.00	2.58	7.43	S4U0K5	Oleosin	<i>O. sativa</i> subsp. <i>japonica</i>	2
534	2.00	2.58	6.01	B6UGS3	Oleosin	<i>Zea mays</i>	1
535	2.00	2.44	16.67	Q9SQG8	Pathogenesis-related protein 4	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	2
536	2.00	2.19	2.06	B4F832	Adenine nucleotide transporter BT1 chloroplastic/mitochondrial	<i>Zea mays</i>	1
537	2.00	2.15	16.16	I1NMC9	Uncharacterized protein	<i>O. glaberrima</i>	1
538	2.00	2.10	6.47	A0A1D5UHV8	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
539	2.00	2.08	3.57	A0A1R3PYI9	Oil body-associated protein 2A	<i>Zea mays</i>	1
540	2.00	2.06	8.54	Q5URW0	Grain softness protein	<i>H. vulgare</i> subsp. <i>vulgare</i>	3

541	2.00	2.02	1.87	B9EX51	Uncharacterized protein	<i>O. sativa subsp. japonica</i>	1
542	2.00	2.01	9.72	O82688	Amino acid selective channel protein	<i>H. vulgare</i>	1
543	2.00	2.01	6.59	A0A1D5VFL6	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	1
544	2.00	2.00	1.85	F6MIX2	Purple acid phosphatase	<i>Secale cereale</i>	1
545	2.00	2.00	4.04	W5GUD5	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	1
546	2.00	2.00	16.67	W5FQG6	40S ribosomal protein S26	<i>T. timopheevii subsp. araraticumcum aestivum</i>	3
547	2.00	2.00	4.41	W5ETF4	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	1
548	2.00	2.00	9.02	Q42848	Non-specific lipid-transfer protein	<i>H. vulgare</i>	1
549	2.00	2.00	3.45	M7YT47	Zinc finger CCCH domain-containing protein 12	<i>T. timopheevii subsp. araraticumcum urartu</i>	1
550	2.00	2.00	6.41	K7VEA3	Embryonic cell protein 63	<i>Zea mays</i>	1
551	2.00	2.00	6.92	F4ZL26	Alpha-gliadin storage protein	<i>Secale strictum</i>	1
552	2.00	2.00	0.58	A0A1D6F400	CW-type Zinc Finger	<i>Zea mays</i>	1
553	2.00	2.00	3.18	A0A1D5Y1A6	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	2
554	2.00	2.00	11.65	A0A1D5XKT5	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	1
555	2.00	2.00	2.07	A0A0D9X7Z0	Uncharacterized protein	<i>O. meridionalis</i>	1
556	2.00	2.00	2.08	W8SJN1	6-phosphogluconate dehydrogenase, decarboxylating	<i>T. timopheevii subsp. araraticumcum spelta</i>	1
557	2.00	2.00	10.43	W5FIX9	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	1
558	2.00	2.00	6.94	W5FEZ3	40S ribosomal protein S12	<i>T. timopheevii subsp. araraticumcum aestivum</i>	1
559	2.00	2.00	7.69	W5F7Q9	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	1
560	2.00	2.00	1.60	W5ER56	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	1
561	2.00	2.00	3.70	W5CQ97	Cysteine proteinase inhibitor	<i>T. timopheevii subsp. araraticumcum aestivum</i>	1
562	2.00	2.00	2.52	W5C0E2	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	1

563	2.00	2.00	3.53	W5BGU3	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
564	2.00	2.00	8.18	W5BFB7	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
565	2.00	2.00	5.56	W5AR77	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
566	2.00	2.00	15.91	W4ZN48	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
567	2.00	2.00	1.64	T1L810	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum urartu</i>	1
568	2.00	2.00	4.22	R7W7W8	Uncharacterized protein	<i>O. sativa</i> subsp. <i>japonica</i>	1
569	2.00	2.00	2.90	R7W5Z8	Adenylate kinase A	<i>O. sativa</i> subsp. <i>japonica</i>	1
570	2.00	2.00	7.06	R7W056	Uncharacterized protein	<i>O. sativa</i> subsp. <i>japonica</i>	1
571	2.00	2.00	1.31	Q9ZT12	101 kDa heat shock protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
572	2.00	2.00	5.59	Q9AUN6	Putative uncharacterized protein	<i>O. sativa</i> subsp. <i>japonica</i>	1
573	2.00	2.00	4.11	Q6YY64	60S ribosomal protein L6	<i>O. sativa</i> subsp. <i>japonica</i>	1
574	2.00	2.00	4.65	Q2QN90	Bromodomain associated family protein, expressed	<i>O. sativa</i> subsp. <i>japonica</i>	1
575	2.00	2.00	1.38	M8C9M7	Uncharacterized protein	<i>O. sativa</i> subsp. <i>japonica</i>	1
576	2.00	2.00	4.67	M8BWJ2	Uncharacterized protein	<i>O. sativa</i> subsp. <i>japonica</i>	1
577	2.00	2.00	1.48	M8BVK5	Uncharacterized protein	<i>O. sativa</i> subsp. <i>japonica</i>	1
578	2.00	2.00	8.39	M8AW09	40S ribosomal protein S17-4	<i>T. timopheevii</i> subsp. <i>araraticumcum urartu</i>	1
579	2.00	2.00	5.77	M0XN12	Uncharacterized protein	<i>H. vulgare</i> subsp. <i>vulgare</i>	1
580	2.00	2.00	6.02	K4AE73	Uncharacterized protein	<i>Setaria italica</i>	2
581	2.00	2.00	0.71	K3Z3B0	Uncharacterized protein	<i>Setaria italica</i>	1
582	2.00	2.00	2.35	J3LAZ4	Uncharacterized protein	<i>O. brachyantha</i>	1
583	2.00	2.00	8.21	J3L3I8	Uncharacterized protein	<i>O. brachyantha</i>	1
584	2.00	2.00	2.21	I1IGR0	Uncharacterized protein	<i>Brachypodium distachyon</i>	1

585	2.00	2.00	4.37	I1GR67	Peroxidase	<i>Brachypodium distachyon</i>	1
586	2.00	2.00	5.34	G9DRA0	MYB-related protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
587	2.00	2.00	7.91	F2D3I1	Predicted protein	<i>H. vulgare</i> subsp. <i>vulgare</i>	1
588	2.00	2.00	6.63	C0PH28	40S ribosomal protein S10-1	<i>Zea mays</i>	1
589	2.00	2.00	5.67	B6UHT3	Uncharacterized protein	<i>Zea mays</i>	1
590	2.00	2.00	2.36	A0A1E5VP17	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum spelta</i>	1
591	2.00	2.00	15.19	A0A1D6S463	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
592	2.00	2.00	5.49	A0A1D5YH09	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
593	2.00	2.00	11.43	A0A1D5SGD9	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
594	2.00	2.00	2.37	A0A0E0LQ31	Uncharacterized protein	<i>O. punctata</i>	1
595	2.00	2.00	7.09	A0A0A9U730	Uncharacterized protein	<i>Arundo donax</i>	1
596	2.00	2.00	2.34	A0A0A9PKF2	Uncharacterized protein	<i>Arundo donax</i>	1
597	2.00	2.00	17.65	A0A0A9AM13	Atp1, OrsajM_p50	<i>Arundo donax</i>	1
598	2.00	2.00	3.25	A0A077RY90	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
599	1.96	2.00	3.40	Q6L5M3	40S ribosomal protein S4	<i>Bromus inermis</i>	1
600	1.94	2.02	3.02	W5B7D0	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
601	1.93	2.09	1.01	W5EB84	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
602	1.92	17.32	26.33	Q2QL55	Alpha-gliadin storage protein	<i>Aegilops speltoides</i>	24
603	1.92	2.00	5.61	A0A1D5S2X8	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
604	1.89	2.00	0.98	Q65XQ8	Os05g0151400 protein	<i>O. sativa</i> subsp. <i>japonica</i>	1
605	1.85	17.16	7.30	A0A0D9VE98	Uncharacterized protein	<i>O. meridionalis</i>	19
606	1.85	4.00	20.37	Q2QLR2	Glycine-rich RNA-binding protein GRP1A, putative, expressed	<i>O. sativa</i> subsp. <i>japonica</i>	3

607	1.83	2.00	5.53	Q76ME3	ADP-ribosylation factor	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
608	1.82	1.96	7.34	A9XEB9	50kD gamma canein	<i>Saccharum officinarum</i>	1
609	1.82	1.96	1.96	W5FY62	Glucose-6-phosphate isomerase	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
610	1.80	1.92	1.18	R7W244	E3 SUMO-protein ligase SIZ1	<i>O. sativa</i> subsp. <i>japonica</i>	1
611	1.77	12.42	10.98	A0A1D5XVS8	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	8
612	1.77	1.89	1.08	A0A0E0J0G8	Uncharacterized protein	<i>O. nivara</i>	1
613	1.77	1.89	1.42	A0A0E0K139	Uncharacterized protein	<i>O. punctata</i>	1
614	1.74	13.38	27.44	W5AUU7	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	9
615	1.74	1.89	4.46	A0A0E0F914	Uncharacterized protein	<i>O. meridionalis</i>	1
616	1.74	1.85	1.24	J3LME7	Uncharacterized protein	<i>O. brachyantha</i>	1
617	1.73	1.87	1.88	Q6ZK46	Os08g0127900 protein	<i>O. sativa</i> subsp. <i>japonica</i>	1
618	1.72	1.90	2.60	A0A1D6BGP6	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
619	1.72	1.85	1.84	Q10JB2	Chaperone clpB 1, putative, expressed	<i>O. sativa</i> subsp. <i>japonica</i>	1
620	1.66	6.26	3.77	Q93WS3	Sucrose synthase	<i>Zea mays</i>	5
621	1.64	1.77	2.98	W5G105	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
622	1.60	1.74	7.75	Q4FZ49	Cysteine proteinase inhibitor	<i>Zea mays</i>	1
623	1.59	42.55	43.05	F1CYR8	High-molecular-weight glutenin subunit	<i>T. timopheevii</i> subsp. <i>araraticumcum spelta</i>	113
624	1.57	1.80	8.43	A0A1D5ZZJ8	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	2
625	1.56	1.71	5.57	W5GF29	Peroxidase	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
626	1.55	12.08	9.23	C9E6N3	High molecular weight glutenin y-type subunit Hy3	<i>T. timopheevii</i> subsp. <i>araraticumcum spelta</i>	15
627	1.55	1.85	4.35	Q8H8B0	Os03g0159600 protein	<i>O. sativa</i> subsp. <i>japonica</i>	1
628	1.55	1.67	7.69	C5YYN1	Uncharacterized protein	<i>Sorghum bicolor</i>	1

629	1.54	1.68	4.02	I1QCX5	Uncharacterized protein	<i>O. glaberrima</i>	1
630	1.54	1.66	1.89	I1I6Q4	REVERSED Uncharacterized protein	<i>Brachypodium distachyon</i>	1
631	1.53	2.88	5.20	R4ZCU4	L-1	<i>T. timopheevii</i> subsp. <i>araraticum</i>	2
632	1.52	1.87	2.12	C5Z7L1	Pyrophosphate--fructose 6-phosphate 1-phosphotransferase subunit beta	<i>Sorghum bicolor</i>	1
633	1.52	1.75	7.92	W5CWR9	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	2
634	1.51	1.72	6.34	C5XFV5	Uncharacterized protein	<i>Sorghum bicolor</i>	1
635	1.51	1.64	6.18	Q7X9L9	QM	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
636	1.48	1.97	1.09	I1P0X2	Uncharacterized protein	<i>O. glaberrima</i>	1
637	1.47	1.59	3.12	Q6EQL0	Putative uncharacterized protein	<i>O. sativa</i> subsp. <i>japonica</i>	1
638	1.46	7.99	20.33	A0A1D5SF46	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	4
639	1.43	1.55	2.62	F2E9C4	Predicted protein	<i>H. vulgare</i> subsp. <i>vulgare</i>	1
640	1.43	1.55	2.86	Q84MJ5	Methylmalonate semialdehyde dehydrogenase	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
641	1.42	42.80	37.64	Q6UJY7	HMW-glutenin By subunit	<i>T. timopheevii</i> subsp. <i>araraticumcum turgidum</i>	99
642	1.42	1.55	12.00	A0A0A8YIV5	Uncharacterized protein	<i>Arundo donax</i>	1
643	1.41	1.54	3.36	Q6H7I9	ATP-dependent Clp protease proteolytic subunit	<i>O. sativa</i> subsp. <i>japonica</i>	1
644	1.36	3.65	21.48	H6U7Z1	PINB-2v5-2	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	5
645	1.35	3.57	9.93	Q6JBR2	Chitinase	<i>Tripsacum dactyloides</i>	2
646	1.32	8.28	14.76	Q40069	Peroxidase	<i>H. vulgare</i>	5
647	1.32	1.43	3.62	W5CQE4	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
648	1.31	1.42	8.91	R7WAY7	Carbonic anhydrase	<i>O. sativa</i> subsp. <i>japonica</i>	1
649	1.30	6.05	30.46	W5AGK9	Nucleoside diphosphate kinase	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	4

650	1.30	1.42	11.34	Q7XDY1	Expressed protein	<i>O. sativa subsp. japonica</i>	1
651	1.29	1.41	1.28	X2D2V6	Lipoxygenase	<i>T. timopheevii subsp. araraticumcum aestivum</i>	1
652	1.28	35.76	27.37	M8A4Z7	Glutenin, high molecular weight subunit DX5	<i>T. timopheevii subsp. araraticumcum urartu</i>	100
653	1.28	12.39	16.36	H6UQP6	High molecular weight subunit of glutenin	<i>T. timopheevii subsp. araraticumcum spelta</i>	30
654	1.28	5.94	13.51	A0A1E5VCS5	1-Cys peroxiredoxin PER1	<i>T. timopheevii subsp. araraticumcum spelta</i>	3
655	1.28	3.63	17.43	Q6I5U6	Os05g0432700 protein	<i>O. sativa subsp. japonica</i>	2
656	1.26	13.34	15.38	J3LBL1	Uncharacterized protein	<i>O. brachyantha</i>	13
657	1.26	1.48	18.75	T2B4Q5	Nonspecific lipid transfer protein 2	<i>O. sativa</i>	2
658	1.26	1.38	0.91	W5H4V8	Aminopeptidase	<i>T. timopheevii subsp. araraticumcum aestivum</i>	1
659	1.26	1.38	17.33	M7ZE88	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum urartu</i>	2
660	1.24	8.55	34.75	M8B2U4	Uncharacterized protein	<i>O. sativa subsp. japonica</i>	6
661	1.24	8.12	14.21	A0A1D6KL30	Sorghum bicolor tolaldehyde dehydrogenase	<i>Zea mays</i>	6
662	1.24	1.41	1.83	A0A1D5YN92	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	2
663	1.22	1.34	10.23	W5EJM2	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	1
664	1.21	45.23	35.06	X2JBS3	Low-molecular-weight glutenin subunit Glu-D3	<i>T. timopheevii subsp. araraticumcum aestivum</i>	65
665	1.21	1.35	2.39	M7ZMS4	Endoglucanase	<i>T. timopheevii subsp. araraticumcum urartu</i>	1
666	1.20	1.32	2.97	K3ZHS3	Uncharacterized protein	<i>Setaria italica</i>	1
667	1.19	1.31	10.13	A0A1D6A246	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	1
668	1.18	6.31	5.60	I1IMR6	Protein disulfide-isomerase	<i>Brachypodium distachyon</i>	3
669	1.18	1.31	5.42	M8B3B6	Uncharacterized protein	<i>O. sativa subsp. japonica</i>	1
670	1.18	1.30	4.42	U3N1P5	Glutamine synthetase	<i>T. timopheevii subsp. araraticumcum turgidum</i>	1
671	1.17	35.61	43.49	A0A0E3Z6T7	Alpha-gliadin	<i>T. timopheevii subsp. araraticumcum spelta</i>	39

672	1.15	1.27	1.38	W5FSK5	Polyadenylate-binding protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
673	1.14	17.48	39.78	J7HYC2	Gamma-gliadin	<i>Aegilops speltoides</i>	26
674	1.13	7.63	33.57	A0A1B2LQB6	A. alpha amylase trypsin inhibitor	<i>T. timopheevii</i> subsp. <i>araraticumcum spelta</i>	5
675	1.12	1.24	11.49	W5GVJ0	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
676	1.11	1.23	2.66	A0A1E5WB11	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum spelta</i>	1
677	1.11	1.23	9.84	A0A0A9KM48	Prp135-1	<i>Arundo donax</i>	1
678	1.09	20.07	42.75	J7HUW3	Gamma-gliadin	<i>Aegilops speltoides</i>	28
679	1.08	13.74	13.20	Q93XQ7	Protein disulfide-isomerase	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	7
680	1.08	1.19	2.35	B9G865	Uncharacterized protein	<i>O. sativa</i> subsp. <i>japonica</i>	1
681	1.07	19.56	26.02	M7Z1Z4	Serpin-Z2B	<i>T. timopheevii</i> subsp. <i>araraticumcum urartu</i>	12
682	1.07	1.18	6.10	A0A0D9V107	Uncharacterized protein	<i>O. meridionalis</i>	1
683	1.06	1.18	1.91	A0A1B6P8P7	Uncharacterized protein	<i>Sorghum bicolor</i>	1
684	1.05	1.15	18.46	W5E8X2	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
685	1.04	1.18	2.46	A0A060N0S6	Omega-gliadin	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
686	1.04	1.16	1.30	W5GA68	Pyrophosphate--fructose 6-phosphate 1-phosphotransferase subunit alpha	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
687	1.04	1.14	10.00	Q5I7K5	Ribosomal protein P1	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
688	1.03	14.21	35.09	J7HY97	Gamma-gliadin	<i>Aegilops comosa</i>	32
689	1.03	1.14	1.96	W5EIX6	Pyruvate kinase	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
690	1.03	1.14	15.22	R7W070	Uncharacterized protein	<i>O. sativa</i> subsp. <i>japonica</i>	1
691	1.03	1.14	4.85	Q2XXX7	Zeamatin-like protein	<i>Zea mays</i> subsp. <i>parviglumis</i>	1
692	1.02	1.12	1.06	F2DLY1	Predicted protein	<i>H. vulgare</i> subsp. <i>vulgare</i>	1

693	1.01	17.07	21.13	Q2XQF1	B hordein	<i>H. vulgare subsp. vulgare</i>	25
694	1.01	13.97	21.10	I1HMK8	Uncharacterized protein	<i>Brachypodium distachyon</i>	27
695	1.00	1.10	4.46	A0A0E0LK26	Uncharacterized protein	<i>O. punctata</i>	1
696	1.00	1.10	6.84	A0A0A9P4I7	Uncharacterized protein	<i>Arundo donax</i>	1
697	0.98	1.10	2.53	Q6AVU2	Endoplasmic oxidoreductin 1, putative, expressed	<i>O. sativa subsp. japonica</i>	1
698	0.97	1.07	13.73	A0A0A9LSK5	Uncharacterized protein	<i>Arundo donax</i>	1
699	0.96	1.07	5.26	Q67VZ0	Os06g0221300 protein	<i>O. sativa subsp. japonica</i>	1
700	0.95	1.06	1.08	R7W333	Alpha-mannosidase	<i>Aegilops tauschii</i>	1
701	0.94	4.13	27.10	W5ANC8	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	3
702	0.94	1.04	2.25	A0A0D9XVQ3	Uncharacterized protein	<i>Leersia perrieri</i>	1
703	0.93	18.17	9.68	E9NQE5	Pyruvate orthophosphate dikinase 1	<i>Zea mays</i>	9
704	0.93	1.04	1.99	Q53M54	Expressed protein	<i>O. sativa subsp. japonica</i>	1
705	0.92	1.02	3.15	I1IMT6	Uncharacterized protein	<i>Brachypodium distachyon</i>	1
706	0.91	2.35	4.41	A0A0E0M9G6	Uncharacterized protein	<i>O. punctata</i>	2
707	0.91	1.06	5.00	M8BX24	Uncharacterized protein	<i>Aegilops tauschii</i>	1
708	0.91	1.03	3.27	M8CV71	3-ketoacyl-CoA thiolase 2, peroxisomal	<i>Aegilops tauschii</i>	1
709	0.89	1.00	2.19	Q5NA76	Putative uncharacterized protein B1066G12.18	<i>O. sativa subsp. japonica</i>	1
710	0.89	1.00	5.74	A0A1D6PTV8	Glutamyl-tRNA reductase-binding protein chloroplastic	<i>Zea mays</i>	1
711	0.88	21.36	12.88	A0A1D5U769	Sucrose synthase	<i>T. timopheevii subsp. araraticumcum aestivum</i>	12
712	0.88	1.02	3.66	A0A1D6H070	Leucine-rich repeat/extensin 2	<i>Zea mays</i>	2
713	0.86	0.96	2.82	K7VF10	Coiled-coil domain-containing protein 97 isoform 1	<i>Zea mays</i>	1
714	0.85	42.29	48.42	E0Z2G9	Alpha-gliadin storage protein	<i>Aegilops tauschii</i>	46

715	0.85	0.99	2.79	W5AMP7	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
716	0.84	0.95	5.81	W5A8H1	Histone H2A	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
717	0.84	0.95	3.17	I1QG82	Uncharacterized protein	<i>O. glaberrima</i>	1
718	0.83	13.68	8.52	V5RM88	D-Hordein	<i>Elymus sibiricus</i>	31
719	0.82	0.92	8.85	W4ZQ59	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
720	0.82	0.91	1.93	A0A1D5WYY4	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1

Supplementary Table 2. Protein identifications in breakfast bars (BB). Trypsin digestion peptides were identified after database searching against the Poaceae subset of the Uniprot database appended with the Common Repository of Adventitious Protein (cRAP) database using a 1% global false discovery rate (FDR) threshold.

N	Unused Score	Total Score	% Cov (95%)	Accession	Name	Species	Peptides (95%)
1	53.55	53.55	41.73	B2Y2S3	Low molecular weight glutenin subunit	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	88
2	47.23	47.23	71.11	A0A1D5YFA7	Beta-amylase	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	46
3	38.00	38.00	31.90	Q41553	HMW glutenin subunit Ax2	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	48
4	37.75	37.79	67.67	W5FZ62	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	23
5	33.65	33.65	33.16	I6QQ39	Globulin-3A	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	20
6	33.16	33.17	32.45	Q38780	11S globulin	<i>A. sativa</i>	27
7	29.16	29.17	44.79	K7XE90	Alpha-gliadin	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	32
8	28.73	28.74	75.60	Q6S5B1	Alpha amylase inhibitor CM3	<i>T. timopheevii</i> subsp. <i>araraticumcum turgidum</i> subsp. <i>durum</i>	37
9	26.91	26.91	70.71	M8CU50	Uncharacterized protein	<i>Aegilops tauschii</i>	51
10	25.28	25.28	20.06	K2C1	Keratin	<i>Homo sapiens</i>	12
11	24.82	24.83	81.56	C3VWA4	Dimeric alpha-amylase inhibitor	<i>T. timopheevii</i> subsp. <i>araraticumcum dicoccoides</i>	25
12	24.54	24.72	33.61	W6AX70	High molecular weight glutenin subunit	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	41
13	24.39	29.58	38.08	A1YQG3	Glutelin	<i>O. sativa</i> subsp. <i>japonica</i>	25
14	23.67	23.74	47.13	B6UKL5	Gamma-gliadin	<i>T. timopheevii</i> subsp. <i>araraticumcum turgidum</i>	35
15	23.65	23.74	26.17	M7ZQM3	Globulin-1 S allele	<i>T. timopheevii</i> subsp. <i>araraticumcum urartu</i>	12
16	23.36	27.65	20.88	G4Y3Y0	High-molecular-weight glutenin subunit	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	27
17	23.32	27.39	10.84	A0A0E0FMV5	Uncharacterized protein	<i>O. nivara</i>	19
18	23.29	23.57	37.09	W8E2L5	Gamma-gliadin	<i>Aegilops tauschii</i>	30
19	22.61	22.83	21.14	W5AKY9	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	10
20	21.71	22.63	70.86	X2KYP9	Monomeric alpha-amylase inhibitor	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	23
21	21.22	21.23	56.34	A0A173DQZ4	Type-b avenin-like protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	27
22	20.14	20.15	38.08	A0A0E0E950	Uncharacterized protein	<i>O. meridionalis</i>	51
23	19.95	20.03	73.28	Q8GZB0	Non-specific lipid-transfer protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	20

24	19.52	21.65	44.58	W5I5X1	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	15	
25	18.74	18.75	61.50	Q8LKV8	Seed globulin	<i>Aegilops tauschii</i>	13	
26	18.42	29.41	30.54	Q84U14	Low-molecular-weight glutenin subunit	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	29	
27	18.30	23.10	28.28	T1T6C4	Glutelin	<i>O. sativa</i> subsp. <i>indica</i>	18	
28	17.86	20.01	48.23	B6DQD5	Gamma-gliadin	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	27	
29	17.23	27.35	37.19	M8C2Y1	Serpin-Z2B	<i>Aegilops tauschii</i>	14	
30	17.14	17.16	60.93	A0A1B2LQE5	A. alpha amylase trypsin inhibitor	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	11	
31	16.95	19.13	27.61	B8AH66	Putative uncharacterized protein	<i>O. sativa</i> subsp. <i>indica</i>	12	
32	16.71	16.72	14.37	A0A0K0KDM6	High molecular weight glutenin subunit	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	28	
33	16.45	16.46	52.38	Q2A784	Avenin-like a1	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	22	
34	16.33	16.48	56.82	A0A0E0Q5N0	Uncharacterized protein	<i>O. rufipogon</i>	22	
35	16.11	16.17	11.73	Q9SAU8	HSP70	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	8	
36	16.09	32.47	43.05	P14812	12S seed storage globulin 2	<i>A. sativa</i>	32	
37	16.03	16.07	44.00	W5FN32	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	8	
38	15.85	30.09	24.24	W5EST8	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	16	
39	15.57	15.60	68.82	W4ZP51	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	16	
40	15.43	20.66	37.10	A0A1P8DTB4	Alpha-gliadin storage protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	31	
41	15.33	15.52	10.79		K1C10_HUMAN		7	7
42	15.21	15.88	63.45	P16851	Alpha-amylase/trypsin inhibitor CM2	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	26	
43	14.91	14.93	66.90	B9VRI3	Alpha-amylase inhibitor CM16 subunit	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	28	
44	14.68	14.71	34.37	Q7X6I8	OJ000315_02.8 protein	<i>O. sativa</i> subsp. <i>japonica</i>	9	
45	14.51	18.98	24.07	T1T5D8	Glutelin	<i>O. sativa</i> subsp. <i>indica</i>	16	
46	14.35	14.41	27.09	Q8LK23	Peroxidase	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	8	
47	14.24	14.32	35.34	I4EP67	Avenin	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	29	
48	13.46	42.21	56.55	A0A1D5XGF4	Beta-amylase	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	41	
49	13.37	13.47	14.82	A0A1D6ABF1	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	9	
50	13.05	17.22	35.12	A0A0E0AHA2	Uncharacterized protein	<i>O. meridionalis</i>	26	

51	12.71	12.72	29.36	Q9AXH7	1-Cys peroxiredoxin	<i>T. timopheevii</i> subsp. <i>araraticumcum turgidum</i> subsp. <i>durum</i>	6
52	12.52	12.56	13.22	W4ZRH9	Glucose-1-phosphate adenylyltransfera	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	5
53	12.48	12.50	36.11	P16347	Endogenous alpha- amylase/subtilisin in	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	7
54	12.27	12.35	13.80	K1C9_HUMAN			7
55	12.20	12.24	7.32	Q0D9D0	Os06g0726400 protein	<i>O. sativa</i> subsp. <i>japonica</i>	6
56	12.17	12.21	41.59	I7KM78	Gamma-gliadin	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	13
57	12.10	26.85	41.67	B2BZC7	LMW-m glutenin subunit 0154A5-M	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	44
58	12.07	12.10	12.62	Q93XQ7	Protein disulfide-isomerase	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	6
59	12.04	21.25	40.89	D2X6D9	Alpha-gliadin	<i>T. timopheevii</i> subsp. <i>araraticumcum turgidum</i> subsp. <i>durum</i>	38
60	12.00	21.20	22.97	A0A1D5ZZT8	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	11
61	12.00	12.00	37.76	A0A1B2LQC0	A. alpha amylase trypsin inhibitor	<i>A. sativa</i>	7
62	11.85	11.91	39.31	M8BAK8	Uncharacterized protein	<i>Aegilops tauschii</i>	7
63	11.80	11.96	39.60	A0A0E0HAY8	Uncharacterized protein	<i>O. nivara</i>	19
64	11.78	11.95	38.21	W5A2C0	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	9
65	11.71	21.42	19.48	A0A068F6Z7	Low molecular weight glutenin	<i>T. timopheevii</i> subsp. <i>araraticumcum</i> <i>dicoccoides</i>	39
66	11.61	11.72	14.12	M7YLN2	Aspartate aminotransferase	<i>T. timopheevii</i> subsp. <i>araraticumcum urartu</i>	5
67	11.59	11.72	100.00	P82901	Non-specific lipid-transfer protein 2P	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	13
68	11.55	11.62	33.19	W5EFT2	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	7
69	11.47	11.56	63.51	A0A1B2LQD4	A. alpha amylase trypsin inhibitor-2	<i>A. sativa</i>	7
70	11.43	11.51	39.06	I3NM41	Oleosin	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	11
71	11.21	11.35	21.05	R9UNY9	Xylanase inhibitor protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	6
72	11.17	11.45	57.69	Q0IP02	Os12g0269200 protein	<i>O. sativa</i> subsp. <i>japonica</i>	42
73	11.05	22.40	81.56	Q4U199	Dimeric alpha-amylase inhibitor	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	16

74	10.83	11.00	23.00	A0A0E0AHC4	Uncharacterized protein	<i>O. meridionalis</i>	9
75	10.76	10.94	47.22	W5AKQ2	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	6
76	10.75	10.91	36.14	G1JSL4	Peroxygenase 1	<i>A. sativa</i>	7
77	10.68	10.87	10.24	M8BDK9	Alanine aminotransferase 2	<i>Aegilops tauschii</i>	5
78	10.60	10.81	37.23	TRYP_PIG			43
79	10.51	10.56	41.38	A0A1D6DC72	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	17
80	10.36	10.56	7.72	W5B5R3	Sucrose synthase	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	5
81	10.15	13.85	66.67	Q9M4N7	Early-methionine-labelled polypeptide	<i>Secale cereale</i>	9
82	10.15	10.21	19.34	A0A1D5VIX2	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	5
83	9.97	13.80	27.44	W5AUU7	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	7
84	9.94	10.00	57.29	R7WGD7	Uncharacterized protein	<i>Aegilops tauschii</i>	5
85	9.89	10.00	30.83	A0A1D5YGW1	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	5
86	9.83	11.93	56.64	A0A1B2LQA9	A. alpha amylase trypsin inhibitor	<i>A. sativa</i>	9
87	9.68	9.76	30.40	W5DQS5	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	5
88	9.63	9.68	46.34	W5D637	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	5
89	9.57	9.63	43.03	A0A1D5RYA9	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	6
90	9.48	9.60	4.25	B9W4U7	Starch branching enzyme IIa	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	5
91	9.27	9.97	25.98	L0L6J0	Gliadin-like avenin	<i>A. sativa</i>	21
92	9.24	9.30	56.86	A1YQF0	Os05g0331532 protein	<i>O. sativa</i> subsp. <i>japonica</i>	15
93	9.21	9.34	8.71	Q6Z782	Os02g0202400 protein	<i>O. sativa</i> subsp. <i>japonica</i>	4
94	9.15	41.80	29.66	Q00M56	LMW-GS P-31	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	64
95	8.96	9.02	44.90	U6A2I2	Vromindoline VIN2	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	12
96	8.87	8.96	15.80	T1MSW5	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum urartu</i>	5
97	8.78	8.86	15.46	W5BPU1	40S ribosomal protein SA	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	4

98	8.51	8.56	19.56	A0A1D6BR50	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	5
99	8.51	8.55	25.08	A0A1D5XF71	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	5
100	8.39	8.54	37.74	A0A0E0Q5F7	Uncharacterized protein	<i>O. rufipogon</i>	16
101	8.30	8.34	37.22	A0A1D6A150	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	5
102	8.29	8.34	35.06	A0A1D6A2L5	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	5
103	8.23	12.38	36.13	Q6EEX0	Gamma gliadin	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	12
104	8.22	8.27	17.77	W5D4F5	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	4
105	8.20	8.21	24.59	B6TJ90	Histone H4	<i>Zea mays</i>	4
106	8.18	20.57	32.60	R4JBK0	Low-molecular-weight glutenin subunit	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	42
107	8.18	8.23	19.93	A0A1D5Z6P0	rRNA N-glycosidase	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	4
108	8.16	12.21	42.44	D2KFH1	Avenin-like a4	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	18
109	8.10	10.11	45.75	A0A1D6C0D3	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	6
110	8.05	20.04	29.72	V9TRL3	High molecular weight glutenin subunit	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	29
111	8.03	8.61	23.14	L0L5I0	Gliadin-like avenin	<i>A. sativa</i>	10
112	8.00	8.00	29.27	Q9FVJ4	CDS_GSP-1	<i>Aegilops tauschii</i>	8
113	7.89	7.96	16.98	T1NAD0	Malate dehydrogenase	<i>T. timopheevii</i> subsp. <i>araraticumcum urartu</i>	4
114	7.84	13.81	63.45	R7W9W1	Alpha-amylase/trypsin inhibitor CM1	<i>Aegilops tauschii</i>	21
115	7.72	7.87	36.03	Q53WS1	Alpha 1 purothionin	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	5
116	7.67	11.86	67.24	M8BYH8	Non-specific lipid-transfer protein	<i>Aegilops tauschii</i>	11
117	7.64	7.75	10.67	Q41534	ATP synthase subunit beta	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	5
118	7.62	7.71	32.24	CAS1_BOVIN			6
119	7.54	7.62	6.07	A0A1D6REH6	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	3
120	7.37	11.63	39.69	A0A1D5XMK2	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	6
121	7.34	7.42	39.86	V5RL87	Puroindoline	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	7

122	7.18	7.27	38.03	W0NPU1	Vromindoline VIN3	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	4
123	7.11	7.25	17.62	A0A1B5GE57	Caleosin	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	4
124	7.09	24.38	40.86	Q7Y074	Low molecular weight glutenin	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	22
125	7.09	7.19	24.10	A0A1D5UB33	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	7
126	7.05	7.19	12.66	A7UME2	Xylanase inhibitor 725ACCN	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	4
127	7.02	7.34	1.86	M8BLL3	Pyruvate, phosphate dikinase 1, chlorop	<i>Aegilops tauschii</i>	2
128	6.99	22.21	91.13	Q5UHH7	0.19 dimeric alpha-amylase inhibitor	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	34
129	6.94	7.04	12.76	M8C8G6	Glyceraldehyde-3-phosphate dehydrog	<i>Aegilops tauschii</i>	3
130	6.90	32.26	55.78	A0A1D5ZBL7	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	21
131	6.84	7.01	58.97	M0V3U0	Non-specific lipid-transfer protein	<i>H. vulgare</i> subsp. <i>vulgare</i>	7
132	6.83	13.09	48.24	V5M0Z7	Avenin-like protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	19
133	6.83	6.90	18.38	I1PWZ3	Uncharacterized protein	<i>O. glaberrima</i>	7
134	6.74	10.06	29.25	A0A0K2QJC8	Alpha/beta-gliadin	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	13
135	6.55	9.60	6.19	J3MC18	Sucrose synthase	<i>O. brachyantha</i>	5
136	6.53	6.75	7.83	A0A1D5VLG8	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	3
137	6.49	8.59	42.48	W5A4Z8	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	4
138	6.47	6.81	7.59	W5I4Y2	Glucose-1-phosphate adenylyltransfera	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	3
139	6.36	6.39	26.74	I1PEM1	Oleosin	<i>O. glaberrima</i>	8
140	6.36	6.39	40.42	A0A1D6DLC2	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	3
141	6.31	6.39	35.14	Q712J4	Puroindoline-b	<i>Aegilops tauschii</i>	7
142	6.27	27.03	74.66	M8BV45	Alpha-amylase/trypsin inhibitor CM3	<i>Aegilops tauschii</i>	38
143	6.26	9.95	68.97	A0A1B2LQE8	A. alpha amylase trypsin inhibitor	<i>A. sativa</i>	9
144	6.25	7.70	9.34	M7YUQ6	Aspartic proteinase O.sin-1	<i>T. timopheevii</i> subsp. <i>araraticumcum urartu</i>	5
145	6.19	15.55	10.23	J9UF96	High molecular weight glutenin subunit	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	13

146	6.15	12.26	59.44	Q41540	CM 17 protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	21
147	6.13	18.73	22.22	I6TRT5	B3 hordein	<i>H. vulgare</i>	22
148	6.09	14.25	36.28	B6UKW6	Gamma-gliadin	<i>T. timopheevii subsp. araraticumcum aestivum</i>	26
149	6.07	20.80	32.04	O49258	12s globulin	<i>A. sativa</i>	26
150	6.06	6.07	8.82	A0A0D3HQM8	Non-specific lipid-transfer protein	<i>O. meridionalis</i>	4
151	6.01	6.01	27.48	Q38770	Type V Thionin	<i>Aegilops tauschii</i>	4
152	6.00	9.14	63.27	Q2PCC3	Type 2 non specific lipid transfer protei	<i>T. timopheevii subsp. araraticumcum aestivum</i>	10
153	6.00	6.00	25.15	Q93W25	Peptidyl-prolyl cis-trans isomerase	<i>T. timopheevii subsp. araraticumcum aestivum</i>	3
154	6.00	6.00	22.11	CASK_BOVIN			3
155	5.94	16.54	31.27	I0IT55	Alpha/beta-gliadin	<i>T. timopheevii subsp. araraticumcum aestivum</i>	17
156	5.88	6.28	13.99	P93636	Actin	<i>Zea mays</i>	4
157	5.87	45.72	59.27	W5EKI0	Beta-amylase	<i>T. timopheevii subsp. araraticumcum aestivum</i>	49
158	5.85	11.08	62.32	A0A0E0E948	Uncharacterized protein	<i>O. meridionalis</i>	26
159	5.84	5.97	21.88	W5BE38	Oleosin	<i>T. timopheevii subsp. araraticumcum aestivum</i>	4
160	5.82	20.84	19.44	B7U6L5	Globulin 3B	<i>T. timopheevii subsp. araraticumcum aestivum</i>	12
161	5.77	5.98	8.23	A0A1D5ZX81	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	3
162	5.76	8.44	46.34	M7ZCN8	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum urartu</i>	4
163	5.73	8.92	24.18	W5B7W5	Caleosin	<i>T. timopheevii subsp. araraticumcum aestivum</i>	5
164	5.71	5.85	7.42	W5FJT8	Tubulin beta chain	<i>T. timopheevii subsp. araraticumcum aestivum</i>	3
165	5.65	5.88	11.68	M8B1Z5	Lactoylglutathione lyase	<i>Aegilops tauschii</i>	3
166	5.60	26.51	16.86	B8ZX17	Glutenin	<i>T. timopheevii subsp. araraticumcum aestivum</i>	28
167	5.55	5.66	47.89	P81713	Bowman-Birk type trypsin inhibitor	<i>T. timopheevii subsp. araraticumcum aestivum</i>	7
168	5.54	7.68	27.61	Q2XSN3	Grain softness protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	8
169	5.51	17.84	6.45	D4HNC8	Y-type HMW glutenin subunit	<i>T. timopheevii subsp. araraticumcum aestivum</i>	20

170	5.49	5.61	16.94	D2KFH0	Gliadin/avenin-like seed protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	3
171	5.47	5.61	9.80	W5AMI8	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	3
172	5.46	5.59	10.99	M4Q9V0	Enolase	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	3
173	5.39	13.70	48.00	Q6UJY8	Globulin	<i>T. timopheevii</i> subsp. <i>araraticumcum turgidum</i>	8
174	5.38	22.16	22.18	A0A1D5Z1A1	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	10
175	5.32	17.97	38.86	A0A0S2GJR0	Low-molecular-weight glutenin subunit	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	29
176	5.25	11.99	33.93	M8AQI5	Avenin-3	<i>T. timopheevii</i> subsp. <i>araraticumcum urartu</i>	16
177	5.22	18.78	83.06	A4GFS0	Dimeric alpha-amylase inhibitor	<i>Aegilops bicornis</i>	21
178	5.19	5.31	17.75	Q96185	Superoxide dismutase	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	3
179	5.19	5.26	25.22	A0A1D6ACI6	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	3
180	5.18	5.31	28.14	A0A1D5YXN3	Oleosin	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	6
181	5.12	5.19	9.72	A0A1D5XY09	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	3
182	5.11	5.31	26.47	M8AT68	Uncharacterized protein	<i>Aegilops tauschii</i>	3
183	5.03	15.00	68.82	Q53WS3	Em protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	9
184	4.98	5.05	6.01	J3MB04	Starch synthase, chloroplastic/amylopla	<i>O. brachyantha</i>	3
185	4.97	24.34	40.70	Q9ST58	Serpin-Z1C	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	16
186	4.91	20.79	17.99	A0A1D5S0Z9	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	9
187	4.90	6.32	52.00	Q5EFA3	Prolamin	<i>O. meridionalis</i>	17
188	4.89	4.95	49.38	P30569	EC protein I/II	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	2
189	4.81	4.88	15.58	Q8H4M5	Os07g0213600 protein	<i>O. sativa</i> subsp. <i>japonica</i>	2
190	4.80	4.88	32.22	W5ACP2	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	2
191	4.78	12.05	52.23	I1Q921	Uncharacterized protein	<i>O. glaberrima</i>	15
192	4.75	45.81	28.84	Q8W3X1	Low-molecular-weight glutenin subunit	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	68
193	4.69	27.50	36.47	A2WVB9	Putative uncharacterized protein	<i>O. sativa</i> subsp. <i>indica</i>	26

194	4.65	20.16	37.72	K7X1L1	Alpha-gliadin	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	21
195	4.65	4.80	27.81	N1QQY6	Uncharacterized protein	<i>Aegilops tauschii</i>	3
196	4.64	6.23	36.05	R4I506	Vromindoline 1.3	<i>A. sativa</i>	8
197	4.62	5.99	38.95	M8BVH7	Putative non-specific lipid-transfer prot	<i>Aegilops tauschii</i>	5
198	4.52	7.93	6.36	K22E_HUMAN			4
199	4.50	11.98	58.75	Q40653	Allergenic protein	<i>O. sativa</i> subsp. <i>japonica</i>	42
200	4.46	26.03	31.20	Q0E261	Glutelin	<i>O. sativa</i> subsp. <i>japonica</i>	22
201	4.45	4.50	10.96	O64392	T. timopheevii subsp. araraticumc	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	2
202	4.36	4.50	6.70	W5D5L4	Fructose-bisphosphate aldolase	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	2
203	4.34	4.38	12.68	Q9MB31	GSH-dependent dehydroascorbate redu	<i>O. sativa</i> subsp. <i>japonica</i>	2
204	4.33	4.37	15.44	P04464	Calmodulin	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	2
205	4.28	4.31	9.65	W5CL83	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	2
206	4.25	4.41	12.97	M8AVF3	Nuclear transport factor 2	<i>Aegilops tauschii</i>	2
207	4.17	4.30	29.32	R7W3S7	Uncharacterized protein	<i>Aegilops tauschii</i>	4
208	4.16	4.18	16.18	Q946V7	19kD alpha zein D2	<i>Zea mays</i>	3
209	4.12	4.14	8.96	I1H7M6	Uncharacterized protein	<i>Brachypodium distachyon</i>	2
210	4.08	6.24	1.37	Q7XZK7	Starch branching enzyme IIb	<i>Sorghum bicolor</i>	3
211	4.08	4.09	4.52	W5XK42	ATP synthase subunit alpha	<i>Aegilops longissima</i>	2
212	4.06	26.41	24.55	A0A1D5XS09	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	15
213	4.06	4.07	20.98	N1QTW5	Trypsin inhibitor CMc	<i>Aegilops tauschii</i>	5
214	4.05	4.05	23.89	M8C6U2	Glutaredoxin-C6	<i>Aegilops tauschii</i>	2
215	4.02	21.04	40.89	A0A1P8DSK8	Alpha-gliadin storage protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	56
216	4.02	14.03	50.00	Q8H4M4	Allergenic protein	<i>O. sativa</i> subsp. <i>japonica</i>	15
217	4.02	12.29	38.86	P0CZ08	Avenin-like a3	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	20

218	4.02	4.02	6.57	Q6ZFJ0	Os08g0502400 protein	<i>O. sativa subsp. japonica</i>	2
219	4.01	22.26	37.14	R4JAP5	Low-molecular-weight glutenin subunit	<i>T. timopheevii subsp. araraticumcum aestivum</i>	27
220	4.01	17.51	26.45	A0A0K2QJY6	Alpha/beta-gliadin	<i>T. timopheevii subsp. araraticumcum aestivum</i>	13
221	4.01	14.04	39.11	Q8S4P7	Thaumatococcus-like protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	7
222	4.01	13.66	22.15	Q5PU41	Low molecular weight glutenin subunit	<i>T. timopheevii subsp. araraticumcum aestivum</i>	16
223	4.00	18.44	59.83	Q6RS99	Globulin	<i>T. timopheevii subsp. araraticumcum turgidum</i>	12
224	4.00	17.56	37.02	K7X0N8	Alpha-gliadin	<i>T. timopheevii subsp. araraticumcum aestivum</i>	24
225	4.00	11.99	37.25	A0A1B2LQE9	A. alpha amylase trypsin inhibitor	<i>T. timopheevii subsp. araraticumcum aestivum</i>	7
226	4.00	10.11	42.20	Q2A780	Putative avenin-like a	<i>T. timopheevii subsp. araraticumcum aestivum</i>	22
227	4.00	8.00	26.67	A0A1D6DG60	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	4
228	4.00	4.00	28.17	M8AZ12	Non-specific lipid-transfer protein 2G	<i>Aegilops tauschii</i>	2
229	4.00	4.00	36.63	Q6ZHP6	Os02g0715400 protein	<i>O. sativa subsp. japonica</i>	2
230	4.00	4.00	22.61	M8ADF8	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum urartu</i>	2
231	4.00	4.00	18.70	A0A1D5UXT7	Cysteine proteinase inhibitor	<i>T. timopheevii subsp. araraticumcum aestivum</i>	2
232	4.00	4.00	13.17	A0A1D5SCU2	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	2
233	3.93	10.63	11.82	Q84X93	Glutelin	<i>O. sativa subsp. japonica</i>	7
234	3.92	4.00	11.67	M7ZFM9	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum urartu</i>	2
235	3.85	4.05	5.26	A0A1D5WJB3	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	2
236	3.82	3.97	15.55	T1MEJ3	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum urartu</i>	2
237	3.74	8.00	18.86	Q38769	Permatin	<i>A. sativa</i>	4
238	3.72	3.82	19.56	M8BUR6	Uncharacterized protein	<i>Aegilops tauschii</i>	3
239	3.70	3.85	8.29	R4ZAN8	L-2	<i>T. timopheevii subsp. araraticumcum kiharae</i>	3
240	3.69	3.78	5.76	W5EI90	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	2
241	3.67	7.24	44.23	A1YQF8	Prolamin	<i>O. sativa subsp. japonica</i>	19

242	3.59	3.72	26.88	M8ATI6	Uncharacterized protein	<i>Aegilops tauschii</i>	2
243	3.53	3.61	10.06	A0A1D5RV12	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	2
244	3.52	3.68	5.16	M8BDX3	Uncharacterized protein	<i>Aegilops tauschii</i>	2
245	3.50	5.75	7.03	A0A1D5VWK9	Peroxidase	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	3
246	3.50	4.08	4.88	A0A0E0ETC4	Uncharacterized protein	<i>O. meridionalis</i>	2
247	3.46	3.62	4.59	W5I0B0	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	2
248	3.42	4.20	3.74	I1PE38	Uncharacterized protein	<i>O. glaberrima</i>	2
249	3.41	3.49	5.72	A0A1D6F125	UDP-arabinopyranose mutase	<i>Zea mays</i>	2
			3				
250	3.41	3.48	38.54	M4VP35	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	2
251	3.40	17.64	48.08	A0A1P8DT36	Alpha-gliadin storage protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	26
252	3.39	3.48	8.52	Q94LL7	Putative uncharacterized protein	<i>O. sativa</i>	2
253	3.38	3.61	7.48	W5H4V7	Phosphoglycerate kinase	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	2
254	3.33	3.47	17.24	A0A1D6B171	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	2
255	3.28	10.81	61.05	I1PUP1	Uncharacterized protein	<i>O. glaberrima</i>	6
256	3.24	24.57	32.33	R9XUM8	Alpha-gliadin	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	28
257	3.24	3.33	2.29	D0TZH2	Pullulanase	<i>O. sativa</i> subsp. <i>indica</i>	2
258	3.22	7.64	21.18	Q7Y1Z2	27K protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	5
259	3.19	3.38	12.35	W5CY88	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	2
260	3.17	7.06	22.82	A0A1D5SF46	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	4
261	3.14	12.48	56.96	B8B8F6	Putative uncharacterized protein	<i>O. sativa</i> subsp. <i>indica</i>	13
262	3.14	3.25	18.60	W5E549	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	2
263	3.12	3.34	5.32	R7W8V8	Tubulin alpha chain	<i>Aegilops tauschii</i>	2
264	3.11	3.26	6.62	Q0WX48	Thaumatococcus-like xylanase inhibitor	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
265	3.07	12.79	63.83	M7YEH7	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum urartu</i>	15

266	3.06	3.13	4.65	A0A1D6S518	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	2
267	3.04	3.10	5.49	B6SYN0	Putative uncharacterized protein	<i>Zea mays</i>	4
268	3.02	19.65	45.30	B6UKP6	Gamma-gliadin	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	31
269	3.01	8.34	56.86	Q5W740	Os05g0332000 protein	<i>O. sativa</i> subsp. <i>japonica</i>	12
270	3.01	4.38	12.62	W5BUF4	Caleosin	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	3
271	3.00	3.07	8.81	W5ECL2	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	2
272	2.96	4.24	34.00	M0WPC3	Uncharacterized protein	<i>H. vulgare</i> subsp. <i>vulgare</i>	5
273	2.94	15.74	36.79	W8Q671	Farinin protein	<i>Brachypodium</i> <i>distachyon</i>	28
274	2.94	12.04	28.48	R9XU99	Gamma-gliadin	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	14
275	2.91	3.10	7.26	A0A1D6BTL4	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
276	2.89	3.03	13.89	M8CGQ1	Uncharacterized protein	<i>Aegilops tauschii</i>	2
277	2.88	16.34	44.25	A0A0E0Q5M4	Uncharacterized protein	<i>O. rufipogon</i>	52
278	2.88	15.95	12.43	J9Q8Q6	High molecular weight glutenin subunit	<i>T. timopheevii</i> subsp. <i>araraticumcum</i> <i>dicoccoides</i>	16
279	2.85	6.41	30.54	Q41518	Single-stranded nucleic acid binding pro	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	5
280	2.82	2.92	9.07	W5ERW2	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	2
281	2.78	2.85	16.59	Q8LPA7	Cold shock protein-1	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	2
282	2.75	7.51	8.00	Q3YAF9	B hordein	<i>H. vulgare</i> subsp. <i>vulgare</i>	4
283	2.74	21.55	36.39	A0A0E3Z7F7	Alpha-gliadin	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	26
284	2.74	2.83	7.32	A0A1D5RU62	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
285	2.73	2.80	16.45	W5B1E5	Superoxide dismutase	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	2
286	2.72	3.00	4.20	W5DYH1	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
287	2.70	2.79	2.29	Q9ZTP0	Putative uncharacterized protein	<i>O. sativa</i>	1
288	2.68	15.19	16.19	V9P760	LMW-m glutenin subunit 45	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	12
289	2.66	7.12	38.00	M8ANS4	Avenin-3	<i>T. timopheevii</i> subsp. <i>araraticumcum urartu</i>	13

290	2.62	2.92	5.01	N1QTR7	Uncharacterized protein	<i>Aegilops tauschii</i>	2
291	2.61	2.65	27.72	A0A1D6BFJ3	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
292	2.59	4.42	22.79	B8YM21	Beta purothionin	<i>T. timopheevii</i> subsp. <i>araraticumcum urartu</i>	3
293	2.57	8.77	59.00	A0A1D6BIB2	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	6
294	2.53	17.87	38.93	W8PUU6	Farinin protein	<i>Brachypodium</i> <i>distachyon</i>	27
295	2.50	2.63	15.33	M8ARU5	Nucleoside diphosphate kinase	<i>T. timopheevii</i> subsp. <i>araraticumcum urartu</i>	2
296	2.46	11.15	34.11	P27919	Avenin	<i>A. sativa</i>	11
297	2.45	2.58	8.43	R7W9M2	Putative aquaporin TIP3-1	<i>Aegilops tauschii</i>	2
298	2.45	2.50	6.00	K3ZUR5	Thiamine thiazole synthase, chloroplast	<i>Setaria italica</i>	1
299	2.44	4.30	4.68	A0A0E0P2F5	Uncharacterized protein	<i>O. rufipogon</i>	2
300	2.43	2.48	2.55	Q9FPK6	Aldehyde dehydrogenase	<i>O. sativa</i>	1
301	2.42	7.48	18.95	Q41603	LMW glutenin	<i>T. timopheevii</i> subsp. <i>araraticumcum turgidum</i> subsp. <i>durum</i>	11
302	2.41	2.46	1.69	A0A1D5WQ92	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
303	2.41	2.46	2.16	W5B347	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
304	2.41	2.45	9.59	Q65XV6	Os05g0111200 protein	<i>O. sativa</i> subsp. <i>japonica</i>	2
305	2.40	2.44	9.32	M7ZEK8	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum urartu</i>	1
306	2.35	7.22	29.46	W5FLF3	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	5
307	2.35	2.46	16.34	A0A1E5V9X3	Late embryogenesis abundant protein B	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	3
308	2.35	2.39	22.12	W4ZQ59	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	2
309	2.32	6.28	20.15	J7HYA4	Gamma-gliadin	<i>Aegilops umbellulata</i>	11
310	2.31	9.42	25.94	A0A1D5ZYI0	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	4
311	2.26	2.29	6.50	T1NPR1	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum urartu</i>	1
312	2.23	2.41	3.03	Q41579	Rab protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
313	2.18	6.49	25.00	Q9FVJ5	GSP-A1	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	7

314	2.18	2.20	14.29	R7W7L2	Uncharacterized protein	<i>Aegilops tauschii</i>	1
315	2.17	2.32	10.22	M8A2L5	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum urartu</i>	2
316	2.16	2.26	5.70	A0A1D6CJL6	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
317	2.15	2.17	3.81	W5F815	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
318	2.14	7.02	12.76	Q43359	Cytosolic glyceraldehyde-3-phosphate	<i>Zea mays</i>	3
319	2.12	2.99	2.12	Q9ARI0	ADP-glucose pyrophosphorylase large s	<i>O. sativa</i> subsp. <i>japonica</i>	1
320	2.10	3.02	16.14	Q548E9	27 kDa gamma-zein	<i>Zea mays</i>	4
321	2.09	2.10	5.56	W5AR77	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
322	2.08	2.09	8.33	F2DWT1	Predicted protein	<i>H. vulgare</i> subsp. <i>vulgare</i>	1
323	2.06	4.09	49.38	P30570	EC protein III	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	2
324	2.06	3.96	12.42	F2DYL9	Predicted protein	<i>H. vulgare</i> subsp. <i>vulgare</i>	2
325	2.06	2.07	5.51	W5FQE2	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
326	2.06	2.07	8.18	R7W4C4	Subtilisin-chymotrypsin inhibitor-2A	<i>Aegilops tauschii</i>	1
327	2.05	10.12	47.22	A0A1B2LQB5	A. alpha amylase trypsin inhibitor	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	9
328	2.05	2.18	8.21	A0A1D5WYI6	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	2
329	2.05	2.06	7.69	W5F7Q9	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
330	2.04	3.33	14.46	A0A1D5Y5R8	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	2
331	2.04	2.05	10.14	A0A1D6DLM3	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
332	2.03	9.64	64.58	Q9FEK9	Lipid transfer protein	<i>T. timopheevii</i> subsp. <i>araraticumcum turgidum</i> subsp. <i>durum</i>	11
333	2.03	5.17	36.62	R4I3I8	Vromindoline 3	<i>A. sativa</i>	4
334	2.03	2.04	6.44	N1QWN7	Early nodulin-like protein 2	<i>Aegilops tauschii</i>	1
335	2.03	2.04	9.86	LALBA_BOVIN			1
336	2.03	2.03	15.91	R7W3F1	Uncharacterized protein	<i>Aegilops tauschii</i>	1
337	2.02	49.95	38.78	Q75ZV9	LMW-s HS1	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	88

338	2.02	7.26	34.58	F2EE76	Predicted protein	<i>H. vulgare subsp. vulgare</i>	4
339	2.01	16.88	9.47	D7RT26	HMW glutenin subunit Gx	<i>T. timopheevii subsp. araraticum</i>	18
340	2.01	12.79	34.68	A0A0E3UQX3	Alpha-gliadin	<i>T. timopheevii subsp. araraticumcum aestivum</i>	18
341	2.01	7.75	24.18	Q6L5L7	Embryonic abundant protein	<i>Bromus inermis</i>	4
342	2.00	45.19	63.62	M8B5G5	Beta-amylase	<i>T. timopheevii subsp. araraticumcum urartu</i>	45
343	2.00	39.37	32.57	H9XH01	Low-molecular-weight glutenin subunit	<i>T. timopheevii subsp. araraticumcum aestivum</i>	61
344	2.00	35.32	34.36	Q52NZ5	Low molecular weight glutenin subunit	<i>T. timopheevii subsp. araraticumcum aestivum</i>	43
345	2.00	34.64	32.89	H6VLQ4	LMW-GS	<i>T. timopheevii subsp. araraticumcum aestivum</i>	41
346	2.00	33.83	29.43	A0A0X9BSF8	High molecular weight glutenin subunit	<i>T. timopheevii subsp. araraticumcum aestivum</i>	38
347	2.00	32.79	32.47	X2JBS3	Low-molecular-weight glutenin subunit	<i>T. timopheevii subsp. araraticumcum aestivum</i>	43
348	2.00	22.66	33.33	Q0Q5D8	High-molecular-weight glutenin By8	<i>T. timopheevii subsp. araraticumcum aestivum</i>	40
349	2.00	21.84	16.48	Q8RVX0	High molecular weight glutenin subunit	<i>T. timopheevii subsp. araraticumcum turgidum subsp. durum</i>	26
350	2.00	21.08	12.51	X2JUA0	High molecular weight glutenin subunit	<i>T. timopheevii subsp. araraticumcum aestivum</i>	31
351	2.00	20.54	64.24	C4P5J4	Monomeric alpha-amylase inhibitor	<i>T. timopheevii subsp. araraticumcum dicoccoides</i>	17
352	2.00	20.18	57.39	A0A173DQZ7	Type-b avenin-like protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	25
353	2.00	19.12	22.77	D4HNC3	Low molecular weight glutenin subunit	<i>Taeniatherum caput-medusae subsp. crinitum</i>	14
354	2.00	18.88	29.84	A5JTR3	Alpha-gliadin Gli-Ts4	<i>T. timopheevii subsp. araraticumcum aestivum</i>	25
355	2.00	18.46	64.24	C4P5B7	Monomeric alpha-amylase inhibitor	<i>T. timopheevii subsp. araraticumcum dicoccoides</i>	18
356	2.00	17.11	18.80	D0EVP4	LMW-m glutenin subunit	<i>T. timopheevii subsp. araraticumcum aestivum</i>	12
357	2.00	14.29	46.27	A0A1D6CWE1	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	31
358	2.00	13.34	13.97	J3LBL1	Uncharacterized protein	<i>O. brachyantha</i>	7
359	2.00	13.18	43.65	Q2A782	Putative avenin-like a	<i>Aegilops cylindrica</i>	22
360	2.00	12.47	32.05	I4EP57	Avenin	<i>T. timopheevii subsp. araraticumcum aestivum</i>	21

361	2.00	11.69	65.79	Q7XAH1	High-molecular-weight glutenin subunit	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	13
362	2.00	11.56	63.51	A0A1B2LQD0	A. alpha amylase trypsin inhibitor-2	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	6
363	2.00	10.19	30.74	A0A0E0E2C5	Uncharacterized protein	<i>O. meridionalis</i>	17
364	2.00	9.35	30.63	Q09072	Avenin	<i>A. sativa</i>	15
365	2.00	9.32	3.35	A0A0E0EED3	Sucrose synthase	<i>O. meridionalis</i>	4
366	2.00	8.97	25.73	G8ZCW5	Avenin protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	13
367	2.00	8.72	28.34	A0A1D5XQU6	Oleosin	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	10
368	2.00	8.00	28.77	M8A1S2	Trypsin/alpha-amylase inhibitor CMX1/	<i>T. timopheevii</i> subsp. <i>araraticumcum urartu</i>	5
369	2.00	8.00	21.66	A0A1D5X2J6	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	4
370	2.00	6.52	2.53	I1PVJ3	Pyruvate, phosphate dikinase	<i>O. glaberrima</i>	2
371	2.00	4.99	5.78	W0G9U6	Starch synthase, chloroplastic/amylopla	<i>T. timopheevii</i> subsp. <i>araraticumcum urartu</i>	3
372	2.00	4.58	17.67	A0A1D5V3W0	Oleosin	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	6
373	2.00	4.57	9.48	Q670S2	B hordein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	4
374	2.00	4.19	4.33	Q401N7	Aspartic proteinase	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	3
375	2.00	4.02	12.99	A0A1D6AS82	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	2
376	2.00	4.00	39.13	A0A1D5XXQ6	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	2
377	2.00	4.00	15.54	S4U0K5	Oleosin	<i>O. sativa</i> subsp. <i>japonica</i>	2
378	2.00	2.72	30.72	Q0DJ38	Os05g0331800 protein	<i>O. sativa</i> subsp. <i>japonica</i>	8
379	2.00	2.25	7.33	A0A1D5WXL8	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	2
380	2.00	2.20	10.83	Q9SQG8	Pathogenesis-related protein 4	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
381	2.00	2.07	5.12	Q94JF2	Os01g0705200 protein	<i>O. sativa</i> subsp. <i>japonica</i>	1
382	2.00	2.00	5.06	Q946W0	15kD beta zein	<i>Zea mays</i>	2
383	2.00	2.00	6.58	I1H1D2	Uncharacterized protein	<i>Brachypodium distachyon</i>	1
384	2.00	2.00	1.77	A0A0E0A6E7	Uncharacterized protein	<i>O. meridionalis</i>	1

385	2.00	2.00	13.92	W5G4V0	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	1
386	2.00	2.00	7.51	W5G1S5	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	1
387	2.00	2.00	20.27	W5CTA6	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	1
388	2.00	2.00	3.31	W5BQF4	Lactoylglutathione lyase	<i>T. timopheevii subsp. araraticumcum aestivum</i>	1
389	2.00	2.00	3.53	W5BGU3	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	1
390	2.00	2.00	8.18	W5BFB7	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	1
391	2.00	2.00	1.57	W5B5M5	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	1
392	2.00	2.00	5.58	T1MRQ2	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum urartu</i>	1
393	2.00	2.00	12.94	R7WFJ0	Uncharacterized protein	<i>Aegilops tauschii</i>	1
394	2.00	2.00	8.48	R7WDJ9	Uncharacterized protein	<i>Aegilops tauschii</i>	1
395	2.00	2.00	3.26	R7WD67	Malate dehydrogenase	<i>Aegilops tauschii</i>	1
396	2.00	2.00	7.14	Q9AV77	60S ribosomal protein L17	<i>O. sativa subsp. japonica</i>	1
397	2.00	2.00	39.24	Q95951	ATP synthase subunit 9, mitochondrial	<i>Sorghum bicolor</i>	1
398	2.00	2.00	6.44	Q946W1	50kD gamma zein	<i>Zea mays</i>	1
399	2.00	2.00	3.14	Q7XM93	OSJNBb0060E08.6 protein	<i>O. sativa subsp. japonica</i>	1
400	2.00	2.00	5.18	Q6Z4W7	Os08g0273300 protein	<i>O. sativa subsp. japonica</i>	1
401	2.00	2.00	8.85	Q65WT5	Os05g0445500 protein	<i>O. sativa subsp. japonica</i>	1
402	2.00	2.00	2.19	Q5NA76	Putative uncharacterized protein B1066	<i>O. sativa subsp. japonica</i>	1
403	2.00	2.00	5.03	Q06I75	Fasciclin-like protein FLA31	<i>T. timopheevii subsp. araraticumcum aestivum</i>	1
404	2.00	2.00	1.48	M8BVK5	Uncharacterized protein	<i>Aegilops tauschii</i>	1
405	2.00	2.00	4.35	J3LXU1	Uncharacterized protein	<i>O. brachyantha</i>	1
406	2.00	2.00	5.09	I6TEV2	Gamma 3 hordein	<i>H. vulgare</i>	1
407	2.00	2.00	2.21	I1IGR0	Uncharacterized protein	<i>Brachypodium distachyon</i>	1
408	2.00	2.00	0.90	I1GV11	Uncharacterized protein	<i>Brachypodium distachyon</i>	1

409	2.00	2.00	6.99	F4ZL28	Alpha-gliadin storage protein	<i>Secale strictum subsp. africanum</i>	1
410	2.00	2.00	3.33	B6SI53	Fructose-bisphosphate aldolase	<i>Zea mays</i>	1
411	2.00	2.00	15.19	A0A1D6S463	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	1
412	2.00	2.00	1.14	A0A1D6CYE6	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	1
413	2.00	2.00	5.77	A0A1D6CU02	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	1
414	2.00	2.00	19.54	A0A1D6B8M4	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	1
415	2.00	2.00	12.40	A0A0Q3PA99	Uncharacterized protein	<i>Brachypodium distachyon</i>	1
416	2.00	2.00	5.21	A0A0E0JM09	Uncharacterized protein	<i>O. punctata</i>	1
417	2.00	2.00	4.32	A0A077RPK1	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	1
418	2.00	2.00	1.38	C5XMS9	Ubiquitinyl hydrolase 1	<i>Sorghum bicolor</i>	1
419	1.96	2.00	2.64	W5EPR0	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	1
420	1.96	2.00	6.96	Q6K2D2	Oleosin	<i>O. sativa subsp. japonica</i>	1
421	1.94	21.45	36.65	E0Z2G5	Alpha-gliadin storage protein	<i>Aegilops tauschii</i>	20
422	1.92	2.00	6.94	W5FEZ3	40S ribosomal protein S12	<i>T. timopheevii subsp. araraticumcum aestivum</i>	1
423	1.89	2.20	4.03	R7WFJ2	Uncharacterized protein	<i>Aegilops tauschii</i>	1
424	1.89	2.04	1.86	W5B7Z6	Adenosylhomocysteinase	<i>T. timopheevii subsp. araraticumcum aestivum</i>	1
425	1.85	14.03	28.07	M0Y227	Uncharacterized protein	<i>H. vulgare subsp. vulgare</i>	13
426	1.85	2.04	5.09	W5CKU7	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	1
427	1.85	2.00	1.16	W5G7S7	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	1
428	1.82	10.10	14.66	R4JF25	Low-molecular-weight glutenin subunit	<i>T. timopheevii subsp. araraticumcum aestivum</i>	12
429	1.80	2.00	3.23	W5CWR9	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	1
430	1.80	1.92	17.74	Q2TM68	Metallothionein-like protein	<i>O. meridionalis</i>	1
431	1.80	1.92	32.00	A0A060AQ88	Defensin	<i>T. timopheevii subsp. araraticumcum aestivum</i>	1
432	1.78	12.62	24.17	I0IT62	Alpha/beta-gliadin	<i>T. timopheevii subsp. araraticumcum aestivum</i>	15

433	1.75	4.06	9.46	C5X3B9	Uncharacterized protein	<i>Sorghum bicolor</i>	2
434	1.74	15.54	39.83	A0A0K2QJE4	Pseudo alpha/beta-gliadin	<i>T. timopheevii subsp. araraticumcum aestivum</i>	15
435	1.74	1.89	1.14	A0A1D6MED7	Structural maintenance of chromosome	<i>Zea mays</i>	1
436	1.74	1.89	4.01	A0A0D9UVQ5	Uncharacterized protein	<i>O. meridionalis</i>	1
437	1.73	12.88	59.77	Q94G97	Gamma-gliadin	<i>T. timopheevii subsp. araraticumcum aestivum</i>	28
438	1.72	1.96	17.41	CASB_BOVIN			4
439	1.72	1.93	1.50	M7YE46	Vicilin-like antimicrobial peptides 2-2	<i>T. timopheevii subsp. araraticumcum urartu</i>	1
440	1.71	5.52	46.67	Q9S6Y2	Alpha purothionin	<i>T. timopheevii subsp. araraticumcum aestivum</i>	4
441	1.70	13.81	58.23	A0A0E0E956	Uncharacterized protein	<i>O. meridionalis</i>	17
442	1.69	1.84	2.44	Q6ZBH2	Os08g0545200 protein	<i>O. sativa subsp. japonica</i>	1
443	1.68	17.03	25.00	Q5XXZ7	Low molecular weight glutenin subunit	<i>Elymus elongatus</i>	11
444	1.68	2.01	5.20	C0PPC9	Uncharacterized protein	<i>Zea mays</i>	2
445	1.68	1.82	15.63	Q40051	Glycine rich protein	<i>H. vulgare</i>	1
446	1.64	1.90	8.08	I1P9U0	Uncharacterized protein	<i>O. glaberrima</i>	1
447	1.64	1.87	4.30	BGAL_ECOLI			2
448	1.64	1.77	2.00	W5A2F4	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	1
449	1.62	7.53	41.03	A0A0E0RFS6	Uncharacterized protein	<i>O. rufipogon</i>	26
450	1.62	2.79	5.79	A0A0Q3KAB9	Uncharacterized protein	<i>Brachypodium distachyon</i>	2
451	1.61	2.79	35.76	A0A0E0HY57	Uncharacterized protein	<i>O. nivara</i>	12
452	1.60	1.74	7.07	C0PNC3	Uncharacterized protein	<i>Zea mays</i>	1
453	1.59	1.81	1.83	M0YZF2	Uncharacterized protein	<i>H. vulgare subsp. vulgare</i>	1
454	1.59	1.72	8.93	K3ZY88	Uncharacterized protein	<i>Setaria italica</i>	1
455	1.58	28.59	43.31	A0A0E3Z6U5	Alpha-gliadin	<i>T. timopheevii subsp. araraticumcum aestivum</i>	29
456	1.57	1.70	5.77	M0XN12	Uncharacterized protein	<i>H. vulgare subsp. vulgare</i>	1

457	1.56	14.07	10.20	W5DYF8	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	7
458	1.54	1.68	5.34	W5BGL0	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
459	1.53	1.76	1.19	Q7XTK1	Elongation factor	<i>O. sativa</i> subsp. <i>japonica</i>	1
460	1.52	1.66	3.85	Q6R985	Cytochrome c oxidase subunit 2	<i>Zea mays</i>	1
461	1.52	1.66	3.79	M8BK19	Glucan endo-1,3-beta-glucosidase GIV	<i>Aegilops tauschii</i>	1
462	1.49	8.43	28.34	A0A1D6D697	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	5
463	1.48	1.62	66.67	Q9S8W4	Alpha-amylase inhibitor	<i>A. sativa</i>	2
464	1.47	41.58	24.15	A0A0U3AGE0	Low molecular weight glutenin subunit	<i>Aegilops searsii</i>	61
465	1.47	1.67	20.27	W5HIB6	Defensin	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
466	1.47	1.62	5.29	W5I1R7	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
467	1.46	1.77	0.00	M8B1C1	10 kDa chaperonin	<i>Aegilops tauschii</i>	0
468	1.45	1.68	1.36	A0A0E0PRJ8	Uncharacterized protein	<i>O. rufipogon</i>	1
469	1.45	1.59	3.13	M8A6E3	Bowman-Birk type trypsin inhibitor	<i>T. timopheevii</i> subsp. <i>araraticumcum urartu</i>	1
470	1.44	1.63	1.21	W5G4R7	Pyrophosphate--fructose 6-phosphate 1	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
471	1.44	1.59	2.25	A0A0D9XVQ3	Uncharacterized protein	<i>O. meridionalis</i>	1
472	1.44	1.57	12.36	W5DZY1	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
473	1.42	24.46	29.72	Q6UJY7	HMW-glutenin By subunit	<i>T. timopheevii</i> subsp. <i>araraticumcum turgidum</i>	42
474	1.40	1.60	2.01	Q5VPB9	Ketol-acid reductoisomerase	<i>O. sativa</i> subsp. <i>japonica</i>	1
475	1.38	1.51	20.45	W5EJM2	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
476	1.38	1.51	8.91	R7WAY7	Carbonic anhydrase	<i>Aegilops tauschii</i>	1
477	1.37	22.22	25.41	A0A1D5YEH1	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	12
478	1.35	25.74	23.20	M8BGV8	Globulin-1 S allele	<i>Aegilops tauschii</i>	14
479	1.35	1.49	4.40	W5H0R7	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
480	1.33	1.46	13.41	W5EL62	40S ribosomal protein S21	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1

481	1.33	1.46	2.88	A0A1D5UMX4	REVERSED Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	1
482	1.30	1.43	4.92	W5B757	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	1
483	1.28	1.40	12.12	W5EPH9	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	1
484	1.26	1.45	2.50	K3YFC9	Uncharacterized protein	<i>Setaria italica</i>	1
485	1.25	1.38	5.88	A0A1D6DLJ4	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	1
486	1.25	1.38	2.34	I1NYL5	Uncharacterized protein	<i>O. glaberrima</i>	1
487	1.24	1.35	4.43	W5BMW7	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	1
488	1.22	12.08	27.88	J7HYD9	Gamma-gliadin	<i>Aegilops speltoides</i>	16
489	1.22	8.38	15.26	W5E2W7	40S ribosomal protein SA	<i>T. timopheevii subsp. araraticumcum aestivum</i>	4
490	1.21	11.09	34.93	A0A1D5SXD6	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	8
491	1.21	1.41	3.93	A0A1D5ZZJ8	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	1
492	1.20	3.96	12.22	W5AC28	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	3
493	1.20	1.54	23.50	Q548E8	16 kDa gamma zein	<i>Zea mays</i>	4
494	1.16	1.30	4.76	A0A0E0EH66	Uncharacterized protein	<i>O. meridionalis</i>	1
495	1.15	1.42	10.14	W5EM63	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	1
496	1.15	1.27	7.45	W5AKH4	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	1
497	1.14	3.97	10.00	I1QCJ2	Uncharacterized protein	<i>O. glaberrima</i>	2
498	1.13	10.48	15.21	I1HMK8	Uncharacterized protein	<i>Brachypodium distachyon</i>	8
499	1.13	3.53	5.65	A0A1D5WVH9	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	2
500	1.13	1.26	1.59	W5G112	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	1
501	1.13	1.24	4.10	K3YU83	Uncharacterized protein	<i>Setaria italica</i>	1
502	1.12	1.24	23.26	A0A0A8ZQG3	Uncharacterized protein	<i>Arundo donax</i>	1
503	1.10	1.29	7.50	W5I301	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	1
504	1.10	1.22	11.49	W5GVJ0	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	1

505	1.09	1.20	4.41	A0A1D5WVJ7	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
506	1.07	26.65	17.18	A0A142ESP3	High molecular weight glutenin subunit	<i>T. timopheevii</i> subsp. <i>araraticumcum</i> <i>dicoccoides</i>	29
507	1.06	1.18	11.65	M8CFP1	Non-specific lipid-transfer protein 2G	<i>Aegilops tauschii</i>	1
508	1.06	1.18	5.33	W5AXM7	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
509	1.05	8.29	27.49	G8ZCW4	Avenin protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	14
510	1.05	1.16	15.49	M7YGF5	Subtilisin-chymotrypsin inhibitor-2A	<i>T. timopheevii</i> subsp. <i>araraticumcum urartu</i>	1
511	1.03	1.15	12.50	W5HAI5	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
512	1.01	5.89	6.72	D4AIA3	Glucose-1-phosphate adenyltransferase	<i>O. sativa</i> subsp. <i>indica</i>	3
513	1.01	1.17	2.71	A0A1D5V1B7	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
514	1.00	3.03	4.91	R4ZCU4	L-1	<i>T. timopheevii</i> subsp. <i>araraticum</i>	2
515	1.00	1.11	1.59	N1R4J0	Uncharacterized protein	<i>Aegilops tauschii</i>	1
516	0.99	1.17	10.98	A0A1D5SJ31	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
517	0.98	1.11	1.70	W5AC96	Carboxypeptidase	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
518	0.97	3.20	3.53	A0A1E5UKF8	Isocitrate dehydrogenase	<i>Dichanthelium</i> <i>oligosanthes</i>	2
519	0.97	1.10	3.91	W5BUA4	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
520	0.95	9.44	31.86	W5DWP8	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	6
521	0.95	1.06	10.00	Q5I7K5	Ribosomal protein P1	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
522	0.94	1.06	7.23	Q2TN84	USP family protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
523	0.93	1.09	2.87	A0A1D6DIS2	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
524	0.92	1.03	2.28	W5GHC3	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1

Supplementary Table 3. Protein identifications in milk-based breakfast drinks (BM). Trypsin digestion peptides were identified after database searching against the Poaceae subset of the Uniprot database appended with the Common Repository of Adventitious Protein (cRAP) database using a 1% global false discovery rate (FDR) threshold.

N	Unused Score	Total Score	% Cov (95%)	Accession	Name	Species	Peptides (95%)
1	98.32	98.32	74.30	ALBU_BOVIN	Albumin	<i>Bos taurus</i>	67
2	73.35	73.35	73.36	CAS1_BOVIN	Casein	<i>Bos taurus</i>	280
3	62.81	62.81	72.97	CAS2_BOVIN	Casein	<i>Bos taurus</i>	108
4	49.61	49.61	64.74	CASK_BOVIN	Casein	<i>Bos taurus</i>	136
5	39.06	39.06	76.06	LALBA_BOVIN	Lactalbumin	<i>Bos taurus</i>	95
6	28.22	28.22	21.91	K3XFF0	Uncharacterized protein	<i>Setaria italica</i>	14
7	27.73	27.75	73.66	CASB_BOVIN	Casein	<i>Bos taurus</i>	64
8	23.38	23.38	40.58	W5EE00	Uncharacterized protein	<i>T. aestivum</i>	12
9	22.95	22.97	25.68	P14812	12S seed storage globulin 2	<i>A. sativa</i>	12
10	20.90	20.90	29.53	Q8SAT2	Elongation factor 1-alpha	<i>Saccharum officinarum</i>	13
11	20.77	20.77	32.75	M0UEE6	Uncharacterized protein	<i>H. vulgare subsp. vulgare</i>	13
12	18.59	18.59	66.67	M0V3U0	Non-specific lipid-transfer protein	<i>H. vulgare subsp. vulgare</i>	24
13	16.40	16.40	13.29	F4Y5B1	Heat shock protein 81-3	<i>Aegilops tauschii</i>	10
14	16.03	16.03	11.36	W5ET88	Uncharacterized protein	<i>T. aestivum</i>	8
15	15.91	18.03	15.93	A0A194YM75	Uncharacterized protein	<i>Sorghum bicolor</i>	10
16	14.42	14.42	12.69	K7VQA7	Cell division control protein 48 homolog D	<i>Zea mays</i>	7
17	14.26	18.20	23.53	Q38780	11S globulin	<i>A. sativa</i>	10
18	14.22	14.22	26.11	A0A1B6P664	Glyceraldehyde-3-phosphate dehydrogenase	<i>Sorghum bicolor</i>	7
19	14.08	14.09	10.57	Q84LE9	D-Hordein	<i>H. vulgare</i>	9
20	13.44	13.46	20.39	A0A1E5VL44	Phosphoglycerate kinase	<i>Dichanthelium oligosanthes</i>	7
21	12.79	12.80	13.29	I1IA29	Uncharacterized protein	<i>Brachypodium distachyon</i>	7
22	12.00	12.00	13.57	H2F5A2	Ribulose biphosphate carboxylase large chain	<i>Ophiopogon japonicus</i>	6
23	11.34	11.35	15.40	A0A0D9W1N0	Uncharacterized protein	<i>Leersia perrieri</i>	8
24	10.39	10.40	23.76	Q5N7P9	ATP synthase subunit beta	<i>O. sativa subsp. japonica</i>	6
25	10.10	10.10	17.51	M0XUU4	Uncharacterized protein	<i>H. vulgare subsp. vulgare</i>	5
26	10.00	10.00	7.40	I1PU83	Uncharacterized protein	<i>O. glaberrima</i>	5
27	10.00	10.00	24.10	I4EP67	Avenin	<i>Dichanthelium oligosanthes</i>	6
28	9.85	9.87	41.78	M0V9V9	Uncharacterized protein	<i>H. vulgare subsp. vulgare</i>	6
29	9.55	11.58	14.11	Q43492	Serpin-Z7	<i>H. vulgare</i>	7
30	9.36	9.38	26.07	A0A0D9X1I3	40S ribosomal protein SA	<i>Leersia perrieri</i>	5
31	9.30	9.320	10.61	W5XK42	ATP synthase subunit alpha	<i>Aegilops longissima</i>	5

32	8.76	8.77	43.36	M0ULY1	Uncharacterized protein	<i>H. vulgare subsp. vulgare</i>	7
33	8.57	10.62	25.23	P27919	Avenin	<i>A. sativa</i>	6
34	8.51	26.77	21.65	B5L808	Heat-shock protein 70	<i>Dactylis glomerata</i>	13
35	8.24	8.25	14.32	W5IA32	Formate dehydrogenase, mitochondrial	<i>T. aestivum</i>	5
36	8.24	8.25	24.24	FABPH_HUMAN			4
37	8.18	8.18	8.949	Q5EUE1	Protein disulfide-isomerase	<i>Zea mays</i>	4
38	8.10	8.10	23.66	I6TRT5	B3 hordein	<i>H. vulgare</i>	5
39	8.03	8.03	13.03	W5FJT8	Tubulin beta chain	<i>T. aestivum</i>	4
40	8.01	8.02	8.88	W5E562	Uncharacterized protein	<i>T. aestivum</i>	4
41	8.00	19.74	26.99	O49258	12s globulin	<i>A. sativa</i>	12
42	8.00	8.00	10.61	W5D5L4	Fructose-bisphosphate aldolase	<i>T. aestivum</i>	5
43	7.92	7.92	12.5	J3LEE7	Elongation factor Tu	<i>O. brachyantha</i>	4
44	7.72	7.76	31.97	G3DQF2	Ubiquitin	<i>Lolium perenne</i>	4
45	7.62	7.68	24.09	I1NPK6	GTP-binding nuclear protein	<i>O. glaberrima</i>	4
46	6.98	7.01	10.87	Q4U474	Eukaryotic initiation factor 4A	<i>Pennisetum americanum</i>	4
47	6.90	6.91	10.59	M0XD84	Malate dehydrogenase	<i>H. vulgare subsp. vulgare</i>	4
48	6.61	6.62	6.07	Q5NKP6	Starch synthase, chloroplastic/amyloplastic	<i>Zea mays</i>	3
49	6.55	6.56	7.556	Q65C79	Tubulin alpha chain	<i>Setaria viridis</i>	3
50	6.36	6.36	71.88	F2EKE4	Predicted protein	<i>H. vulgare subsp. vulgare</i>	5
51	6.27	6.28	40.94	M0Y227	Uncharacterized protein	<i>H. vulgare subsp. vulgare</i>	6
52	6.23	6.26	12.98	C0LL37	UDP-glucose pyrophosphorylase	<i>Bambusa oldhamii</i>	4
53	6.12	6.12	6.98	A0A0D9WL26	Uncharacterized protein	<i>Leersia perrieri</i>	3
54	6.10	6.11	28.24	A0A0A9MLI5	UREG	<i>Arundo donax</i>	6
55	6.07	6.07	21.55	Q9LDC9	Os01g0265100 protein	<i>O. sativa subsp. japonica</i>	3
56	6.07	6.07	21.65	TRYP_PIG			8
57	6.06	6.06	22.28	W5FLE9	Uncharacterized protein	<i>T. aestivum</i>	3
58	6.03	6.03	16.03	K3ZJQ2	Proteasome subunit alpha type	<i>Setaria italica</i>	3
59	6.01	6.01	34.68	F2EGD5	Predicted protein	<i>H. vulgare subsp. vulgare</i>	5
60	6.01	6.01	25.23	K7AJI8	Peptidyl-prolyl cis-trans isomerase	<i>Phleum pratense</i>	5
61	6.01	6.01	25.97	A0A1B2LQE3	Avena alpha amylase trypsin inhibitor	<i>Dichanthelium oligosanthes</i>	3
62	6.00	8.3	28.57	U6A1U2	Vromindoline VIN2	<i>Dichanthelium oligosanthes</i>	5
63	6.00	6.87	10.17	B6SHD3	Malate dehydrogenase	<i>Zea mays</i>	4
64	6.00	6.00	8.00	Q7DMU0	Storage protein	<i>T. aestivum</i>	3
65	6.00	6.00	23.49	J3M103	Uncharacterized protein	<i>O. brachyantha</i>	4
66	6.00	6.00	15.85	Q5URW0	Grain softness protein	<i>H. vulgare subsp. vulgare</i>	3

67	6.00	6.00	18.87	L0L4J7	Gliadin-like avenin	<i>A. sativa</i>	3
68	6.00	6.00	17.45	A0A1E5V4S0	Nucleoside diphosphate kinase	<i>Dichantheium oligosanthos</i>	3
69	5.82	5.87	8.22	K3XGJ1	Serine hydroxymethyltransferase	<i>Setaria italica</i>	3
70	5.71	5.81	34.87	Q546U1	Barley dimeric alpha-amylase inhibitor (Bdai-1)	<i>H. vulgare</i>	4
71	5.66	5.72	19.46	M8BD70	Ras-related protein RIC1	<i>Aegilops tauschii</i>	3
72	4.97	13.29	13.59	A0A1D6I6T8	Heat shock protein 90-2	<i>Zea mays</i>	10
73	4.66	4.66	6.52	Q5SNC0	Os06g0173100 protein	<i>O. sativa subsp. japonica</i>	2
74	4.64	18.76	28.53	F2E0T8	Predicted protein	<i>H. vulgare subsp. vulgare</i>	10
75	4.54	4.55	2.88	W5B7Z6	Adenosylhomocysteinase	<i>T. aestivum</i>	2
76	4.51	4.51	16.90	W0NU33	Vromindoline VIN3	<i>Dichantheium oligosanthos</i>	2
77	4.44	4.44	21.32	A0A0A9RS32	Eno1	<i>Arundo donax</i>	3
78	4.33	4.33	13.57	Q0JDZ7	40S ribosomal protein S8	<i>O. sativa subsp. japonica</i>	2
79	4.31	4.33	8.37	C5XY44	Uncharacterized protein	<i>Sorghum bicolor</i>	3
80	4.14	4.14	4.78	TRFL_HUMAN			3
81	4.13	4.14	11.79	I1PUZ1	40S ribosomal protein S4	<i>O. glaberrima</i>	3
82	4.13	4.13	9.153	I6TEV2	Gamma 3 hordein	<i>H. vulgare</i>	4
83	4.12	8.70	33.83	I3RXT5	Glyceraldehyde-3-phosphate dehydrogenase	<i>Secale cereale</i>	4
84	4.09	4.09	14.02	PPIA_HUMAN			2
85	4.09	4.09	4.28	I1J3C6	Pyruvate kinase	<i>Brachypodium distachyon</i>	2
86	4.06	4.06	21.85	B2FH40	16.9a kDa heat-shock protein	<i>Dichantheium oligosanthos</i>	3
87	4.05	4.06	9.75	K4APL6	Uncharacterized protein	<i>Setaria italica</i>	2
88	4.05	4.06	21.34	M0UYA9	Uncharacterized protein	<i>H. vulgare subsp. vulgare</i>	2
89	4.04	22.58	19.54	A0A0D9VSI8	Uncharacterized protein	<i>Leersia perrieri</i>	12
90	4.04	4.04	27.21	A0A1D5Z8I6	Histone H4	<i>T. aestivum</i>	3
91	4.03	4.04	17.81	F2EAF6	Predicted protein	<i>H. vulgare subsp. vulgare</i>	2
92	4.03	4.04	15.38	A0A1B2LQF1	Avena alpha amylase trypsin inhibitor	<i>A. sativa</i>	2
93	4.03	4.03	5.06	K3Y6F3	Uncharacterized protein	<i>Setaria italica</i>	3
94	4.03	4.03	14.35	W5EJ02	Ribosomal protein L19	<i>T. aestivum</i>	2
95	4.02	4.03	14.84	Q0E2I8	Os02g0235600 protein	<i>O. sativa subsp. japonica</i>	2
96	4.01	6.02	1.85	A0A0E0NCE4	Uncharacterized protein	<i>O. rufipogon</i>	4
97	4.00	16.63	24.47	J3L659	Uncharacterized protein	<i>O. brachyantha</i>	9
98	4.00	8.00	8.10	I1IMR6	Protein disulfide-isomerase	<i>Brachypodium distachyon</i>	4
99	4.00	6.00	28.66	M0VEH1	Uncharacterized protein	<i>H. vulgare subsp. vulgare</i>	3
100	4.00	4.00	3.85	Q7FAT6	OSJNBa0010H02.6 protein	<i>O. sativa subsp. japonica</i>	2

101	4.00	4.00	36.13	M0UY53	Uncharacterized protein	<i>H. vulgare subsp. vulgare</i>	3
102	4.00	4.00	5.75	F2D448	Predicted protein	<i>H. vulgare subsp. vulgare</i>	2
103	4.00	4.00	7.53	C5WYF2	Malate dehydrogenase	<i>Sorghum bicolor</i>	2
104	4.00	4.00	6.05	W5AMI8	Uncharacterized protein	<i>T. aestivum</i>	2
105	4.00	4.00	4.77	T1NLG4	Uncharacterized protein	<i>T. urartu</i>	2
106	4.00	4.00	6.66	Q3YAF9	B hordein	<i>H. vulgare subsp. vulgare</i>	2
107	4.00	4.00	3.96	A0A0D9XEA5	Uncharacterized protein	<i>Leersia perrieri</i>	2
108	4.00	4.00	2.19	A0A0D9VXV1	Lipoxygenase	<i>Leersia perrieri</i>	3
109	4.00	4.00	10.84	G1JSL4	Peroxygenase 1	<i>A. sativa</i>	2
110	4.00	4.00	6.18	W5FIP7	Uncharacterized protein	<i>T. aestivum</i>	2
111	4.00	4.00	13.62	W5C3H4	Proteasome subunit alpha type	<i>T. aestivum</i>	2
112	4.00	4.00	26.88	W4ZP51	Uncharacterized protein	<i>T. aestivum</i>	2
113	4.00	4.00	19.73	R4I506	Vromindoline 1.3	<i>A. sativa</i>	2
114	4.00	4.00	10.13	Q9SME6	Glutathione peroxidase	<i>H. vulgare</i>	2
115	4.00	4.00	12.92	Q7X9L9	QM	<i>T. aestivum</i>	2
116	4.00	4.00	5.703	M7Z059	60S acidic ribosomal protein P0	<i>T. urartu</i>	2
117	4.00	4.00	15.17	M0YS73	Uncharacterized protein	<i>H. vulgare subsp. vulgare</i>	3
118	4.00	4.00	7.43	K3XK17	Uncharacterized protein	<i>Setaria italica</i>	2
119	4.00	4.00	4.09	I1QRY4	Uncharacterized protein	<i>O. glaberrima</i>	2
120	4.00	4.00	9.76	A0A1E5VLL3	Triosephosphate isomerase, cytosolic	<i>Dichantheium oligosanthes</i>	2
121	3.91	4.06	7.491	Q8H903	60 kDa chaperonin	<i>O. sativa subsp. japonica</i>	3
122	3.72	3.77	18.50	K3YW48	Uncharacterized protein	<i>Setaria italica</i>	2
123	3.68	9.28	20.34	M0Z2X3	Phosphoglycerate kinase	<i>H. vulgare subsp. vulgare</i>	5
124	3.46	3.53	16.47	W5FSM8	Uncharacterized protein	<i>T. aestivum</i>	2
125	3.37	3.43	18.75	K3XMZ4	Uncharacterized protein	<i>Setaria italica</i>	2
126	3.34	3.42	3.66	A0A0E0F3I1	Uncharacterized protein	<i>Leersia perrieri</i>	2
127	3.20	3.27	10.04	K3ZWD4	Proteasome subunit alpha type	<i>Setaria italica</i>	2
128	3.16	3.22	3.41	A0A0A9NCK5	Uncharacterized protein	<i>Arundo donax</i>	2
129	3.14	3.26	4.66	M7ZQM3	Globulin-1 S allele	<i>T. urartu</i>	2
130	3.02	3.08	18.25	Q0MRQ9	Late embryogenesis abundant protein	<i>Sorghum bicolor</i>	3
131	2.99	3.07	3.43	Q9AUQ4	Os03g0712700 protein	<i>O. sativa subsp. japonica</i>	2
132	2.90	2.98	18.13	K4AG37	Eukaryotic translation initiation factor 5A	<i>Setaria italica</i>	2
133	2.62	2.63	4.49	W5D7B8	60S ribosomal protein L18a	<i>T. aestivum</i>	1
134	2.60	2.61	12.31	Q84S20	CHP-rich zinc finger protein-like	<i>O. sativa subsp. japonica</i>	2
135	2.52	2.53	1.89	III007	Uncharacterized protein	<i>Brachypodium distachyon</i>	1

136	2.51	2.52	7.54	Q94J20	Lipoprotein-like	<i>O. sativa subsp. japonica</i>	2
137	2.47	2.48	23.35	Q7X679	OJ991214_12.15 protein	<i>O. sativa subsp. japonica</i>	2
138	2.46	2.47	5.49	W5GZB8	Uncharacterized protein	<i>T. aestivum</i>	1
139	2.39	2.40	2.31	Q6V959	Ribosomal protein L3	<i>T. aestivum</i>	1
140	2.32	2.33	6.50	W5D067	Uncharacterized protein	<i>T. aestivum</i>	1
141	2.30	2.31	20.93	J3LWV5	40S ribosomal protein S27	<i>O. brachyantha</i>	1
142	2.26	2.27	6.82	Q43238	Alcohol dehydrogenase 1	<i>Zea diploperennis</i>	2
143	2.23	2.24	12.82	Q6ZDW5	Os07g0674700 protein	<i>O. sativa subsp. japonica</i>	2
144	2.19	2.20	7.57	Q8LK80	Ferritin	<i>O. sativa subsp. japonica</i>	2
145	2.18	2.19	19.01	Q8S409	Hordoindoline A-1	<i>H. vulgare subsp. vulgare</i>	2
146	2.17	2.19	7.58	J3MNT1	Uncharacterized protein	<i>O. brachyantha</i>	1
147	2.15	2.16	1.47	W5D4Q6	Phospholipase D	<i>T. aestivum</i>	1
148	2.14	2.15	7.94	J3LXN2	Uncharacterized protein	<i>O. brachyantha</i>	1
149	2.13	2.14	6.57	Q38769	Permatin	<i>A. sativa</i>	1
150	2.12	2.13	2.25	K3YT25	Uncharacterized protein	<i>Setaria italica</i>	1
151	2.12	2.12	4.04	B6TD84	Auxin-induced protein PCNT115	<i>Zea mays</i>	1
152	2.11	2.12	8.91	A0A1E5VGM3	Annexin-like protein RJ4	<i>Dichanthelium oligosanthes</i>	3
153	2.09	2.10	11.88	W5ECL2	Uncharacterized protein	<i>T. aestivum</i>	2
154	2.09	2.10	4.326	Q5W6H1	Os05g0350500 protein	<i>O. sativa subsp. japonica</i>	1
155	2.09	2.09	13.19	W5FEZ3	40S ribosomal protein S12	<i>T. aestivum</i>	1
156	2.08	10.66	27.82	B1P766	Elongation factor 1-alpha	<i>Lolium temulentum</i>	9
157	2.08	2.09	6.14	W4ZQJ2	Uncharacterized protein	<i>T. aestivum</i>	1
158	2.07	2.08	1.354	A0A1E5WMP1	Zinc finger protein VAR3, chloroplastic	<i>Dichanthelium oligosanthes</i>	1
159	2.07	2.08	7.75	W5HZ15	Histone H2B	<i>T. aestivum</i>	1
160	2.06	2.27	10.19	W5CAA5	Uncharacterized protein	<i>T. aestivum</i>	2
161	2.05	8.68	8.72	Q5JKU5	Os01g0742200 protein	<i>O. sativa subsp. japonica</i>	5
162	2.05	6.12	30.43	A6N0B2	Mitochondrial formate dehydrogenase 1	<i>O. sativa subsp. indica</i>	4
163	2.04	2.04	18.63	F2DYL9	Predicted protein	<i>H. vulgare subsp. vulgare</i>	2
164	2.03	12.41	10.73	I1QJW3	Uncharacterized protein	<i>O. glaberrima</i>	8
165	2.03	2.11	1.81	F2EGM6	Predicted protein	<i>H. vulgare subsp. vulgare</i>	1
166	2.03	2.04	8.70	C5XN41	Uncharacterized protein	<i>Sorghum bicolor</i>	1
166	0.73	0.86	10.96	A0A0A9JUQ8	Uncharacterized protein	<i>Arundo donax</i>	1
167	2.03	2.03	5.73	W5I1R7	Uncharacterized protein	<i>T. aestivum</i>	1
168	2.03	2.03	3.86	Q25B80	Catalase	<i>Festuca arundinacea</i>	1
169	2.02	8.13	5.22	K3Y5K9	Uncharacterized protein	<i>Setaria italica</i>	4

170	2.02	2.03	8.49	Q9ZWG4	Ribulose biphosphate carboxylase small chain	<i>A. sativa</i>	1
171	2.02	2.03	2.02	Q688K0	Guanosine nucleotide diphosphate dissociation inhibitor	<i>O. sativa subsp. japonica</i>	1
172	2.02	2.02	2.24	U5NJ12	Beta-amylase	<i>H. vulgare</i>	1
173	2.02	2.02	10.77	M8B4K5	40S ribosomal protein S15a-1	<i>Aegilops tauschii</i>	1
174	2.01	2.03	10.13	C5XE07	Uncharacterized protein	<i>Sorghum bicolor</i>	3
175	2.01	2.01	1.78	W5I3K2	Uncharacterized protein	<i>T. aestivum</i>	1
176	2.01	2.01	1.91	W5FIY5	Uncharacterized protein	<i>T. aestivum</i>	1
177	2.01	2.01	8.40	Q7X8D0	OSJNBa0035M09.3 protein	<i>O. sativa subsp. japonica</i>	1
178	2.01	2.01	9.15	Q53Q51	Os11g0151300 protein	<i>O. sativa subsp. japonica</i>	1
179	2.01	2.01	0.66	N1QUA9	Formin-like protein	<i>Aegilops tauschii</i>	1
180	2.00	14.35	13.66	K4A5Z8	Uncharacterized protein	<i>Setaria italica</i>	7
181	2.00	14.03	12.01	Q8W529	Methionine synthase	<i>Zea mays</i>	7
182	2.00	12.79	12.93	K3XEI1	Uncharacterized protein	<i>Setaria italica</i>	7
183	2.00	10.77	22.28	K3ZTW1	Uncharacterized protein	<i>Setaria italica</i>	8
184	2.00	10.2	18.99	B4FS87	Glyceraldehyde-3-phosphate dehydrogenase	<i>Zea mays</i>	5
185	2.00	10.05	8.54	K3Z491	Uncharacterized protein	<i>Setaria italica</i>	5
186	2.00	7.29	10.87	Q8HFD4	ATP synthase subunit alpha	<i>Dichanthelium oligosanthes</i>	4
187	2.00	6.00	7.78	I1GXE4	Fructose-bisphosphate aldolase	<i>Brachypodium distachyon</i>	3
188	2.00	4.07	4.57	K4A6M8	Uncharacterized protein	<i>Setaria italica</i>	2
189	2.00	4.07	4.66	J3LS33	Uncharacterized protein	<i>O. brachyantha</i>	2
190	2.00	4.06	6.07	J3LJW5	Uncharacterized protein	<i>O. brachyantha</i>	3
191	2.00	4.03	6.98	M8D1A8	Formate dehydrogenase, mitochondrial	<i>Aegilops tauschii</i>	2
192	2.00	4.00	7.40	V9QFJ0	Elongation factor-1a	<i>Cochliobolus miyabeanus</i>	2
193	2.00	4.00	2.50	I1GPA9	Lipoxygenase	<i>Brachypodium distachyon</i>	3
194	2.00	4.00	15.70	C7E3V7	Peptidyl-prolyl cis-trans isomerase	<i>Saccharum officinarum</i>	2
195	2.00	4.00	2.37	A0A0A9IRF3	Lipoxygenase	<i>Arundo donax</i>	3
196	2.00	4.00	15.87	A0A024A3B7	Low molecular weight glutenin subunit	<i>Pseudoroegneria spicata</i>	2
197	2.00	3.43	3.15	TRFE_HUMAN			2
198	2.00	2.00	2.73	I1GLH6	Uncharacterized protein	<i>Brachypodium distachyon</i>	1
199	2.00	2.00	5.14	X2JG17	Low-molecular-weight glutenin subunit Glu-B3	<i>T. turgidum</i>	1
200	2.00	2.00	3.03	W5CPE3	Uncharacterized protein	<i>T. aestivum</i>	1
201	2.00	2.00	3.36	W5BPN7	Uncharacterized protein	<i>T. aestivum</i>	1
202	2.00	2.00	4.68	I3NM41	Oleosin	<i>T. aestivum</i>	1

203	2.00	2.00	5.44	E0WBA5	Alcohol dehydrogenase	<i>Dichantheium oligosanthes</i>	1
204	2.00	2.00	3.11	A0A0E0K6U2	S-(hydroxymethyl)glutathione dehydrogenase	<i>O. punctata</i>	1
205	2.00	2.00	4.53	W5XS41	Nad9	<i>T. turgidum subsp. durum</i>	1
206	2.00	2.00	5.73	W5I0M5	Histone H2A	<i>T. aestivum</i>	1
207	2.00	2.00	1.67	W5H440	Uncharacterized protein	<i>T. aestivum</i>	1
208	2.00	2.00	2.98	W5G105	Uncharacterized protein	<i>T. aestivum</i>	1
209	2.00	2.00	8.27	W5FVL1	Uncharacterized protein	<i>T. aestivum</i>	1
210	2.00	2.00	9.09	W5FT47	Uncharacterized protein	<i>T. aestivum</i>	1
211	2.00	2.00	9.09	W5FSX7	Non-specific lipid-transfer protein	<i>T. aestivum</i>	1
212	2.00	2.00	6.25	W5FQG6	40S ribosomal protein S26	<i>T. aestivum</i>	1
213	2.00	2.00	2.60	W5EM06	Uncharacterized protein	<i>T. aestivum</i>	1
214	2.00	2.00	2.74	W5EGF1	Uncharacterized protein	<i>T. aestivum</i>	1
215	2.00	2.00	2.66	W5DXP0	Uncharacterized protein	<i>T. aestivum</i>	1
216	2.00	2.00	2.28	W5DPV9	Uncharacterized protein	<i>T. aestivum</i>	1
217	2.00	2.00	3.61	W5D4F5	Uncharacterized protein	<i>T. aestivum</i>	1
218	2.00	2.00	3.05	W5CT81	Uncharacterized protein	<i>T. aestivum</i>	1
219	2.00	2.00	9.92	W5A3G5	Profilin	<i>T. aestivum</i>	1
220	2.00	2.00	1.89	W5A2K8	Uncharacterized protein	<i>T. aestivum</i>	1
221	2.00	2.00	6.12	W4ZWP2	Peptidyl-prolyl cis-trans isomerase	<i>T. aestivum</i>	1
222	2.00	2.00	2.04	W4ZM56	Uncharacterized protein	<i>T. aestivum</i>	1
223	2.00	2.00	3.13	T1MN05	Uncharacterized protein	<i>T. urartu</i>	1
224	2.00	2.00	6.57	T1M6E7	Xyloglucan endotransglucosylase /hydrolase	<i>T. urartu</i>	1
225	2.00	2.00	3.03	R7W9P7	Uncharacterized protein	<i>Aegilops tauschii</i>	1
226	2.00	2.00	2.34	R7W8L5	Vacuolar-sorting receptor 1	<i>Aegilops tauschii</i>	1
227	2.00	2.00	1.04	R7W7Q5	Uncharacterized protein	<i>Aegilops tauschii</i>	1
228	2.00	2.00	3.26	Q9SPD9	Voltage-dependent anion channel protein 1a	<i>Zea mays</i>	1
229	2.00	2.00	8.78	Q9SC07	Puroindoline B	<i>T. monococcum</i>	1
230	2.00	2.00	2.55	Q9LLR2	Aldehyde dehydrogenase	<i>O. sativa</i>	1
231	2.00	2.00	2.83	Q9FP24	Putative class III chitinase	<i>O. sativa subsp. japonica</i>	1
232	2.00	2.00	1.72	Q94GG8	Alanine--tRNA ligase	<i>O. sativa subsp. japonica</i>	1
233	2.00	2.00	4.34	Q8SA35	Os01g0659200 protein	<i>O. sativa subsp. japonica</i>	1
234	2.00	2.00	6.47	Q8H4T5	OSJNBa0070C17.19 protein	<i>O. sativa subsp. japonica</i>	1
235	2.00	2.00	12.70	Q8H3F5	Os07g0251301 protein	<i>O. sativa subsp. japonica</i>	1
236	2.00	2.00	13.41	Q7Y199	40S ribosomal protein S21	<i>O. sativa subsp. japonica</i>	1

237	2.00	2.00	5.77	Q6F4B1	Glutamine synthetase	<i>Dichantheium oligosanthes</i>	1
238	2.00	2.00	9.67	Q5UNP2	Non-specific lipid-transfer protein	<i>H. vulgare subsp. vulgare</i>	1
239	2.00	2.00	5.35	Q0IR97	21 kDa protein	<i>O. sativa subsp. japonica</i>	1
240	2.00	2.00	2.73	N1R5E3	Heat shock protein STI	<i>Aegilops tauschii</i>	1
241	2.00	2.00	0.60	N1R0C0	Putative disease resistance protein RGA1	<i>Aegilops tauschii</i>	1
242	2.00	2.00	1.27	N1QVQ6	Peptidylprolyl isomerase	<i>Aegilops tauschii</i>	1
243	2.00	2.00	3.89	M8CBN8	Uncharacterized protein	<i>Aegilops tauschii</i>	1
244	2.00	2.00	1.54	M8BPX6	Uncharacterized protein	<i>Aegilops tauschii</i>	1
245	2.00	2.00	6.76	M8AVA4	Uncharacterized protein	<i>Aegilops tauschii</i>	1
246	2.00	2.00	10.64	M0Z5Y1	Uncharacterized protein	<i>H. vulgare subsp. vulgare</i>	1
247	2.00	2.00	13.27	M0UFI7	Uncharacterized protein	<i>H. vulgare subsp. vulgare</i>	1
248	2.00	2.00	1.83	K7TLU1	Hexosyltransferase	<i>Zea mays</i>	1
249	2.00	2.00	1.30	K4AMB2	Uncharacterized protein	<i>Setaria italica</i>	1
249	2.00	2.00	1.44	I1H9J6	Uncharacterized protein	<i>Brachypodium distachyon</i>	1
250	2.00	2.00	4.12	K3ZX49	Uncharacterized protein	<i>Setaria italica</i>	1
251	2.00	2.00	1.77	K3ZR22	Uncharacterized protein	<i>Setaria italica</i>	1
252	2.00	2.00	1.98	K3Z6Q4	Uncharacterized protein	<i>Setaria italica</i>	1
253	2.00	2.00	1.60	K3Y5X2	D-3-phosphoglycerate dehydrogenase	<i>Setaria italica</i>	1
254	2.00	2.00	3.91	K3XLL7	Uncharacterized protein	<i>Setaria italica</i>	1
255	2.00	2.00	5.00	K3XLG2	Uncharacterized protein	<i>Setaria italica</i>	1
256	2.00	2.00	2.46	J3KZ27	Uncharacterized protein	<i>O. brachyantha</i>	1
257	2.00	2.00	6.01	I1NTC3	Uncharacterized protein	<i>O. glaberrima</i>	1
258	2.00	2.00	3.48	I1IZP9	Uncharacterized protein	<i>Brachypodium distachyon</i>	1
259	2.00	2.00	2.08	I1IWW5	Uncharacterized protein	<i>Brachypodium distachyon</i>	1
260	2.00	2.00	3.03	I1ICU0	Uncharacterized protein	<i>Brachypodium distachyon</i>	1
261	2.00	2.00	6.97	I1HWJ6	Peptidyl-prolyl cis-trans isomerase	<i>Brachypodium distachyon</i>	1
262	2.00	2.00	3.77	I1HW94	40S ribosomal protein S3a	<i>Brachypodium distachyon</i>	1
263	2.00	2.00	1.21	I1GPF5	Uncharacterized protein	<i>Brachypodium distachyon</i>	1
264	2.00	2.00	4.28	I1GLI4	Uncharacterized protein	<i>Brachypodium distachyon</i>	1
265	2.00	2.00	8.00	F2CZ16	Predicted protein	<i>H. vulgare subsp. vulgare</i>	1
266	2.00	2.00	1.80	C5YT28	Lipoxygenase	<i>Sorghum bicolor</i>	1
267	2.00	2.00	0.382	C5YG68	Uncharacterized protein	<i>Sorghum bicolor</i>	1
268	2.00	2.00	2.20	B9FQT9	Uncharacterized protein	<i>O. sativa subsp. japonica</i>	1

269	2.00	2.00	4.32	B6STA3	IN2-1 protein	<i>Zea mays</i>	1
270	2.00	2.00	5.26	B6SSF0	Putative RING zinc finger domain superfamily protein	<i>Zea mays</i>	1
271	2.00	2.00	8.60	B1NEV4	Putative ribosomal protein S14	<i>O. sativa subsp. japonica</i>	1
272	2.00	2.00	1.91	A0A1E5VAR1	Heat shock 70 kDa protein, mitochondrial	<i>Dichantheium oligosanthes</i>	1
273	2.00	2.00	0.88	A0A1D6M1D2	Uncharacterized protein	<i>Zea mays</i>	1
274	2.00	2.00	19.40	A0A1D5V3T5	Uncharacterized protein	<i>T. aestivum</i>	1
275	2.00	2.00	9.15	A0A1B6QL82	Uncharacterized protein	<i>Sorghum bicolor</i>	1
276	2.00	2.00	7.22	A0A1B6PNJ1	Uncharacterized protein	<i>Sorghum bicolor</i>	1
277	2.00	2.00	11.49	A0A1B2LQD4	Avena alpha amylase trypsin inhibitor-2	<i>A. sativa</i>	1
278	2.00	2.00	5.43	A0A0E0KX19	Uncharacterized protein	<i>O. punctata</i>	1
279	2.00	2.00	2.62	A0A0E0KB74	Uncharacterized protein	<i>O. punctata</i>	1
280	2.00	2.00	1.89	A0A0E0ESU9	Uncharacterized protein	<i>Leersia perrieri</i>	1
281	2.00	2.00	0.98	A0A0D9XZ63	Uncharacterized protein	<i>Leersia perrieri</i>	1
282	2.00	2.00	3.49	A0A0D9V729	Uncharacterized protein	<i>Leersia perrieri</i>	1
284	2.00	2.00	10.64	A0A0A9KFS9	Acyl carrier protein	<i>Arundo donax</i>	1
285	2.00	2.00	8.14	A0A0A9HKZ3	LOX4	<i>Arundo donax</i>	1
286	2.00	2.00	3.68	A0A0A9FJS6	CASP-like protein	<i>Arundo donax</i>	1
287	2.00	2.00	4.97	RETBP_HUMAN			1
288	2.00	2.00	6.84	HBB_HUMAN			1
289	2.00	2.00	4.70	ANXA5_HUMAN			1
290	1.96	2.00	4.95	C5X3B9	Uncharacterized protein	<i>Sorghum bicolor</i>	1
291	1.92	2.00	18.4	W5E8X2	Uncharacterized protein	<i>T. aestivum</i>	1
292	1.92	2.00	1.59	A0A1D5S1L8	Uncharacterized protein	<i>T. aestivum</i>	1
293	1.92	2.00	4.76	A0A0D3HE95	Uncharacterized protein	<i>Leersia perrieri</i>	1
294	1.89	2.00	1.80	A0A1D6H9V7	Poly [ADP-ribose] polymerase	<i>Zea mays</i>	1
295	1.87	6.24	3.21	Q9MB32	Heat shock protein 90	<i>O. sativa</i>	4
296	1.85	2.00	3.35	Q94JJ0	Fructose-bisphosphate aldolase	<i>O. sativa subsp. japonica</i>	1
297	1.85	2.00	4.06	Q2RAW0	60S acidic ribosomal protein P0	<i>O. sativa subsp. japonica</i>	2
298	1.82	8.03	12.98	W5D048	Tubulin beta chain	<i>T. aestivum</i>	4
299	1.78	1.93	1.71	J3LDG6	Poly [ADP-ribose] polymerase	<i>O. brachyantha</i>	1
300	1.77	1.92	7.20	J3MZ72	Proteasome subunit beta	<i>O. brachyantha</i>	1
301	1.74	1.99	10.79	C5YU07	Uncharacterized protein	<i>Sorghum bicolor</i>	2
302	1.66	1.91	10.62	I1HYI5	Uncharacterized protein	<i>Brachypodium distachyon</i>	2
303	1.62	1.88	3.33	T1NSH3	Glyceraldehyde-3-phosphate dehydrogenase	<i>T. urartu</i>	1
304	1.62	1.77	2.76	Q8S4Y9	Glyceraldehyde-3-phosphate dehydrogenase	<i>O. sativa</i>	1
305	1.60	1.86	5.94	W5HK74	Uncharacterized protein	<i>T. aestivum</i>	2

306	1.57	1.72	12.50	Q01L74	H0321H01.6 protein	<i>O. sativa</i>	1
307	1.46	1.60	8.84	Q5URW7	Hordoinoline b-2	<i>H. vulgare subsp. vulgare</i>	1
308	1.37	1.51	5.08	M7ZE30	Beta-amylase	<i>T. urartu</i>	1
309	1.36	1.49	3.61	Q9LST5	Proteasome subunit beta type	<i>O. sativa subsp. japonica</i>	1
310	1.35	1.48	6.50	Q5VPF1	Proteasome subunit beta type	<i>O. sativa subsp. japonica</i>	1
311	1.35	1.48	1.22	A0A0D9V8I3	Uncharacterized protein	<i>Leersia perrieri</i>	1
312	1.30	1.45	3.6	A0A0D9X1M2	40S ribosomal protein S6	<i>Leersia perrieri</i>	1
313	1.29	3.51	9.75	I1IPR0	Uncharacterized protein	<i>Brachypodium distachyon</i>	2
314	1.23	1.38	3.05	W5FGX7	Uncharacterized protein	<i>T. aestivum</i>	1
315	1.18	1.33	2.67	R7WE15	Transaldolase 1	<i>Aegilops tauschii</i>	1
316	1.15	1.30	3.67	A0A1D5VZV3	Uncharacterized protein	<i>T. aestivum</i>	1
317	1.14	1.28	4.22	Q5Z816	Os06g0703600 protein	<i>O. sativa subsp. japonica</i>	1
318	1.14	1.28	5.74	M0V337	REVERSED Uncharacterized protein	<i>H. vulgare subsp. vulgare</i>	1
319	1.11	1.25	2.50	F2EG51	Predicted protein	<i>H. vulgare subsp. vulgare</i>	1
320	1.08	1.22	5.07	R7W067	60S ribosomal protein L23a	<i>Aegilops tauschii</i>	1
321	1.07	1.21	5.16	A0A1D6JQU8	Uncharacterized protein	<i>Zea mays</i>	1
322	1.04	1.17	3.96	W5DQS5	Uncharacterized protein	<i>T. aestivum</i>	1
323	1.03	1.17	9.32	N1QV84	Regulator of ribonuclease-like protein 2	<i>Aegilops tauschii</i>	1
324	1.03	1.16	1.05	I1Q7V6	REVERSED Uncharacterized protein	<i>O. glaberrima</i>	1
325	1.02	16.22	19.24	Q9M7E4	Elongation factor 1 alpha	<i>Zea mays</i>	10
326	0.99	12.88	20.92	A0A1E5UZA4	Phosphoglycerate kinase	<i>Dichanthelium oligosanthes</i>	7
327	0.98	1.12	10.67	K3ZER9	Uncharacterized protein	<i>Setaria italica</i>	1
328	0.95	1.13	4.60	I1H6J2	Uncharacterized protein	<i>Brachypodium distachyon</i>	2
329	0.93	1.07	20.83	A0A067YHZ8	Glyceraldehyde-3-phosphate DH	<i>H. vulgare subsp. spontaneum</i>	1
330	0.9	1.03	3.15	K4AB95	Uncharacterized protein	<i>Setaria italica</i>	1
331	0.87	1.00	1.16	J3MLW3	Uncharacterized protein	<i>O. brachyantha</i>	1
332	0.86	1.00	1.61	Q10LY9	2,3-bisphosphoglycerate-independent phosphoglycerate mutase, putative	<i>O. sativa subsp. japonica</i>	1
333	0.77	0.90	14.78	A0A0P0Y6A6	Non-specific lipid-transfer protein	<i>O. sativa subsp. japonica</i>	1
334	0.76	0.89	3.21	K3Z766	Uncharacterized protein	<i>Setaria italica</i>	1
335	0.75	3.77	7.17	A0A0Q3KAB9	Uncharacterized protein	<i>Brachypodium distachyon</i>	2
336	0.75	0.88	2.24	W5GV92	Uncharacterized protein	<i>T. aestivum</i>	1

Supplementary Table 4. Protein identifications in powdered drinks (PD). Trypsin digestion peptides were identified after database searching against the Poaceae subset of the Uniprot database appended with the Common Repository of Adventitious Protein (cRAP) database using a 1% global false discovery rate (FDR) threshold.

N	Unused Score	Total Score	% Cov (95%)	Accession	Name	Species	Peptides (95%)
1	57.18	57.18	64.74	CASK_BOVIN	Casein	<i>Bos taurus</i>	138
2	46.48	46.48	44.32	ALBU_BOVIN	Albumin	<i>Bos taurus</i>	24
3	45.44	45.46	75.70	CAS1_BOVIN	Casein	<i>Bos taurus</i>	199
4	44.41	44.89	66.90	LALBA_BOVIN	Lactalbumin	<i>Bos taurus</i>	82
5	44.11	45.33	62.61	CAS2_BOVIN	Casein	<i>Bos taurus</i>	96
6	41.94	41.94	38.44	K7X1I9	Alpha-gliadin	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	28
7	28.72	28.72	49.00	M0UEE6	Uncharacterized protein	<i>H. vulgare</i> subsp. <i>vulgare</i>	20
8	28.63	28.66	58.04	CASB_BOVIN	Casein	<i>Bos taurus</i>	73
9	26.34	26.34	16.47	I6SW34	D hordein	<i>H. vulgare</i> subsp. <i>vulgare</i>	42
10	25.08	25.13	35.04	A0A1D5YFA7	Beta-amylase	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	19
11	24.12	24.13	77.78	M0V3U0	Non-specific lipid-transfer protein	<i>H. vulgare</i> subsp. <i>vulgare</i>	98
12	22.04	22.04	67.13	M0ULY1	Uncharacterized protein	<i>H. vulgare</i> subsp. <i>vulgare</i>	31
13	21.36	21.45	19.13	K2C1_HUMAN	Keratin	<i>Homo sapiens</i>	13
14	18.30	18.30	64.33	M0Y227	Uncharacterized protein	<i>H. vulgare</i> subsp. <i>vulgare</i>	45
15	18.06	18.07	50.00	M0V9V9	Uncharacterized protein	<i>H. vulgare</i> subsp. <i>vulgare</i>	20
16	17.01	17.07	37.99	I6TRT5	B3 hordein	<i>H. vulgare</i>	26
17	16.60	18.77	48.08	M0Z714	Uncharacterized protein	<i>H. vulgare</i> subsp. <i>vulgare</i>	16
18	16.41	16.43	65.13	Q546U1	Barley dimeric alpha-amylase inhibitor (Bdai-1)	<i>H. vulgare</i>	19
19	15.99	16.12	56.95	X2KYP9	Monomeric alpha-amylase inhibitor	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	12
20	15.03	18.25	63.69	Q6S5B1	Alpha amylase inhibitor CM3	<i>T. timopheevii</i> subsp. <i>araraticumcum turgidum</i> subsp. <i>durum</i>	30
21	12.71	15.48	13.85	A0A060MZP1	High molecular weight glutenin subunit	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	14
22	12.49	12.49	44.78	A0A1D6CWE1	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	23
23	12.46	12.48	65.25	A0A1D5SYE4	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	8
24	12.32	12.40	29.83	I6TEV2	Gamma 3 hordein	<i>H. vulgare</i>	35
25	12.31	12.33	59.57	C8CAI4	Dimeric alpha-amylase inhibitor	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	13

26	12.17	12.38	11.64	K1C10_HUMAN			6
27	11.94	12.03	10.83	Q7DMU0	Storage protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	7
28	11.58	11.76	73.10	M0YS73	Uncharacterized protein	<i>H. vulgare</i> subsp. <i>vulgare</i>	18
29	11.47	11.55	28.62	B6DQD5	Gamma-gliadin	<i>Secale cereale</i> x <i>T.</i> <i>timopheevii</i> subsp. <i>araraticumcum</i> <i>aestivum</i>	12
30	11.44	11.50	44.22	Q5URW6	Hordoindoline b-1	<i>H. vulgare</i> subsp. <i>vulgare</i>	9
31	10.48	10.51	71.88	F2EKE4	Predicted protein	<i>H. vulgare</i> subsp. <i>vulgare</i>	16
32	10.27	10.52	34.45	Q8W3W7	Low-molecular-weight glutenin subunit group 3 type II	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	24
33	9.68	22.58	33.96	J7HWD7	Alpha-gliadin	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	16
34	9.62	16.00	60.14	Q41540	CM 17 protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	20
35	9.42	19.37	22.80	U5NIV6	Beta-amylase	<i>H. vulgare</i> subsp. <i>spontaneum</i>	20
36	9.36	9.44	35.37	M0UYA9	Uncharacterized protein	<i>H. vulgare</i> subsp. <i>vulgare</i>	11
37	9.15	9.25	27.56	Q0Q5D9	Globulin 1	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	5
38	9.02	23.91	31.62	I0IT55	Alpha/beta-gliadin	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	16
39	8.97	9.02	25.00	W8PU74	Farinin protein	<i>Brachypodium</i> <i>distachyon</i>	8
40	8.45	8.52	8.18	A5HMG1	HMW glutenin subunit 1Bx13	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	7
41	8.40	8.51	51.03	P16851	Alpha-amylase/trypsin inhibitor CM2	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	10
42	8.36	8.38	24.83	W8E2L7	Gamma-gliadin	<i>Aegilops tauschii</i>	12
43	8.11	8.15	24.09	R9XV91	LMW-GS	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	11
44	8.07	8.07	25.11	TRYP_PIG			28
45	8.01	20.56	28.47	A0A1P8DST0	Alpha-gliadin storage protein	<i>Secale cereale</i> x <i>T.</i> <i>timopheevii</i> subsp. <i>araraticumcum aestivum</i>	14
46	8.00	12.30	60.99	C3VWA4	Dimeric alpha-amylase inhibitor	<i>T. timopheevii</i> subsp. <i>araraticumcum</i> <i>dicoccoides</i>	14
47	8.00	8.92	10.04	A0A0K0KDM6	High molecular weight glutenin subunit 1Dy3	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	8
48	8.00	8.00	27.09	A0A1D6DC72	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	7
49	7.83	7.96	73.49	M0W9B7	Uncharacterized protein	<i>H. vulgare</i> subsp. <i>vulgare</i>	12

50	7.74	10.07	22.86	B2BZD2	LMW-m glutenin subunit 0877L13-M	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	15
51	7.71	7.82	37.75	M8C5C1	Uncharacterized protein	<i>Aegilops tauschii</i>	5
52	7.62	7.71	20.07	A0A173DQZ7	Type-b avenin-like protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	7
53	7.60	7.73	8.50	A0A1D6APZ0	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	4
54	7.59	7.66	21.35	I3NM41	Oleosin	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	6
55	7.54	7.62	28.77	M8A1S2	Trypsin/alpha-amylase inhibitor CMX1/CMX3	<i>T. timopheevii</i> subsp. <i>araraticumcum urartu</i>	4
56	7.24	7.44	46.34	N1R4E0	Uncharacterized protein	<i>Aegilops tauschii</i>	4
57	7.14	9.99	51.03	R7W9W1	Alpha-amylase/trypsin inhibitor CM1	<i>Aegilops tauschii</i>	11
58	7.14	7.41	8.67	K1C9_HUMAN			5
59	7.00	7.08	7.41	F2EBM4	Predicted protein	<i>H. vulgare</i> subsp. <i>vulgare</i>	5
60	6.96	7.07	9.22	M0XUU4	Uncharacterized protein	<i>H. vulgare</i> subsp. <i>vulgare</i>	4
61	6.93	9.84	11.81	Q94IJ6	High molecular weight glutenin subunit y	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	11
62	6.59	6.64	24.39	G8CLS3	Grain softness protein	<i>Taeniatherum caput-medusae</i>	5
63	6.47	6.51	34.90	M0UY52	Uncharacterized protein	<i>H. vulgare</i> subsp. <i>vulgare</i>	14
64	6.39	6.42	16.18	Q53WS1	Alpha 1 purothionin	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	5
65	6.02	8.46	43.90	M0VEH1	Uncharacterized protein	<i>H. vulgare</i> subsp. <i>vulgare</i>	19
66	6.00	19.92	67.61	B9VRI3	Alpha-amylase inhibitor CM16 subunit	<i>Secale cereale</i> x <i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	24
67	6.00	12.47	67.74	M0VEJ0	Uncharacterized protein	<i>H. vulgare</i> subsp. <i>vulgare</i>	10
68	5.87	6.07	15.94	M0ZDL8	Uncharacterized protein	<i>H. vulgare</i> subsp. <i>vulgare</i>	4
69	5.75	5.91	10.06	A0A0D9V992	Fructose-bisphosphate aldolase	<i>Leersia perrieri</i>	3
70	5.70	5.94	27.01	M0V715	Uncharacterized protein	<i>H. vulgare</i> subsp. <i>vulgare</i>	6
71	5.69	5.82	9.74	M8BDX3	Uncharacterized protein	<i>Aegilops tauschii</i>	4
72	5.52	5.57	31.51	F2EAF6	Predicted protein	<i>H. vulgare</i> subsp. <i>vulgare</i>	4
73	5.18	7.66	17.29	W5FZ62	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	6
74	4.99	5.05	27.38	A8V4A4	Chymotrypsin inhibitor-2	<i>H. vulgare</i> subsp. <i>vulgare</i>	3
75	4.77	4.82	32.71	F2EEH7	Predicted protein	<i>H. vulgare</i> subsp. <i>vulgare</i>	4
76	4.66	6.78	18.75	Q84NG7	Globulin	<i>H. vulgare</i>	5

77	4.66	4.67	6.24	F2D284	Protein disulfide-isomerase	<i>H. vulgare</i> subsp. <i>vulgare</i>	4
78	4.48	5.32	24.56	Q1ZZT4	Low-molecular-weight glutenin subunit	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	10
79	4.46	4.48	36.00	Q5ITV1	Hordoindoline-a	<i>H. vulgare</i> subsp. <i>vulgare</i>	6
80	4.31	8.51	25.83	I6R4A7	B-hordein	<i>H. vulgare</i> subsp. <i>vulgare</i>	11
81	4.31	4.32	17.05	I6TMV6	Gamma 1 hordein	<i>H. vulgare</i>	7
82	4.29	4.31	9.86	M0Z4S0	Uncharacterized protein	<i>H. vulgare</i> subsp. <i>vulgare</i>	4
83	4.27	6.32	18.47	A0A1D5X2J6	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	3
84	4.22	17.22	28.15	A0A0E3URD2	Alpha-gliadin	<i>Secale cereale</i> x <i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	14
85	4.19	8.71	33.72	D2KFH1	Avenin-like a4	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	18
86	4.19	4.20	10.22	W5FN32	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	2
87	4.15	9.21	21.88	B2BZC7	LMW-m glutenin subunit 0154A5-M	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	12
88	4.12	4.80	44.79	Q9FEK9	Lipid transfer protein	<i>T. timopheevii</i> subsp. <i>araraticumcum turgidum</i> subsp. <i>durum</i>	7
89	4.09	4.10	6.91	N1R3X3	Peroxidase	<i>Aegilops tauschii</i>	2
90	4.06	4.07	17.39	F2EJ79	Predicted protein	<i>H. vulgare</i> subsp. <i>vulgare</i>	2
91	4.05	4.05	15.24	Q5URW0	Grain softness protein	<i>H. vulgare</i> subsp. <i>vulgare</i>	6
92	4.03	4.15	48.44	Q8S9N0	Ubiquitin	<i>O. sativa</i>	3
93	4.02	6.79	27.63	H6VLQ4	LMW-GS	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	19
94	4.02	4.02	12.43	I1PWZ3	Uncharacterized protein	<i>O. glaberrima</i>	2
95	4.01	4.01	18.55	Q5UNP2	Non-specific lipid-transfer protein	<i>H. vulgare</i> subsp. <i>vulgare</i>	2
96	4.00	15.28	26.59	N1NV64	Beta-amylase	<i>Brachypodium distachyon</i>	12
97	4.00	14.63	8.96	V5RM88	D-Hordein	<i>Secale cereale</i> x <i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	18
98	4.00	12.30	55.84	W5D003	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	12
99	4.00	10.02	44.22	G1UH43	Hordoindoline b-2	<i>H. vulgare</i> subsp. <i>vulgare</i>	10
100	4.00	7.71	21.83	V5M3L6	Avenin-like protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	5
101	4.00	4.00	23.18	W5AGK9	Nucleoside diphosphate kinase	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	3
102	4.00	4.00	6.64	W5BUF4	Caleosin	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	3

103	4.00	4.00	25.95	Q38770	Type V Thionin	<i>Aegilops tauschii</i>	3
104	4.00	4.00	3.65	W5DYF8	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	2
105	4.00	4.00	13.29	Q43770	Oleosin	<i>H. vulgare</i>	2
106	4.00	4.00	7.09	M0XIN0	Uncharacterized protein	<i>H. vulgare subsp. vulgare</i>	2
107	4.00	4.00	19.43	F2CR90	Predicted protein	<i>H. vulgare subsp. vulgare</i>	2
108	3.93	4.07	25.86	M8BYH8	Non-specific lipid-transfer protein	<i>Aegilops tauschii</i>	5
109	3.81	3.92	9.26	W5EQ17	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	2
110	3.74	3.82	14.37	F2E8X4	Oleosin	<i>H. vulgare subsp. vulgare</i>	3
111	3.61	3.73	26.80	M0VJA1	Uncharacterized protein	<i>H. vulgare subsp. vulgare</i>	3
112	3.53	3.63	17.11	F2EC88	Predicted protein	<i>H. vulgare subsp. vulgare</i>	3
113	3.49	3.63	12.92	L7VfZ3	Delta gliadin 1	<i>Aegilops tauschii</i>	6
114	3.44	3.54	11.66	F2EL01	Predicted protein	<i>H. vulgare subsp. vulgare</i>	2
115	3.39	7.43	69.88	M0XB55	Uncharacterized protein	<i>H. vulgare subsp. vulgare</i>	7
116	3.39	3.48	17.28	T1N474	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum urartu</i>	2
117	3.38	3.48	20.69	P07596	Alpha-amylase/subtilisin inhibitor	<i>H. vulgare</i>	3
118	3.33	3.46	12.31	I4EP89	Avenin	<i>Secale cereale x T. timopheevii subsp. araraticumcum aestivum</i>	2
119	3.28	3.37	22.15	W5EIR1	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	3
120	3.27	3.49	7.19	Q42837	Aldose reductase	<i>H. vulgare</i>	2
121	3.16	19.58	30.73	Q43492	Serpin-Z7	<i>H. vulgare</i>	15
122	3.11	3.32	20.66	Q9SES6	Non-specific lipid-transfer protein	<i>H. vulgare</i>	2
123	3.09	35.91	33.11	A0A1P8DTD6	Alpha-gliadin storage protein	<i>Secale cereale x T. timopheevii subsp. araraticumcum aestivum</i>	25
124	3.04	3.12	3.92	W5ANJ9	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	2
125	3.00	3.14	13.25	R7W9M2	Putative aquaporin TIP3-1	<i>Aegilops tauschii</i>	3
126	2.98	3.08	6.63	F2ECH4	Predicted protein	<i>H. vulgare subsp. vulgare</i>	2
127	2.87	3.62	46.32	M8BVH7	Putative non-specific lipid-transfer protein	<i>Aegilops tauschii</i>	5
128	2.83	2.91	17.39	A0A1D6ACI6	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	2
129	2.81	2.89	10.47	B5TWK6	rRNA N-glycosidase	<i>H. vulgare</i>	2
130	2.78	2.85	20.98	N1QTW5	Trypsin inhibitor CMc	<i>Aegilops tauschii</i>	5

131	2.71	5.30	32.95	M0VH55	Uncharacterized protein	<i>H. vulgare subsp. vulgare</i>	20
132	2.68	2.77	6.05	W5FPN2	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	2
133	2.62	2.81	26.32	D0UXW7	Superoxide dismutase	<i>Bambusa oldhamii</i>	4
134	2.60	2.83	16.98	B5TWD1	Late embryogenesis abundant protein	<i>H. vulgare subsp. vulgare</i>	4
135	2.52	2.66	10.26	A0A1D5UB33	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	2
136	2.46	6.22	17.26	Q8LKV8	Seed globulin	<i>Aegilops tauschii</i>	3
137	2.46	2.51	2.86	F2DS64	Predicted protein	<i>H. vulgare subsp. vulgare</i>	1
138	2.41	6.14	24.83	M8BAK8	Uncharacterized protein	<i>Aegilops tauschii</i>	3
139	2.38	2.43	2.16	W5XK42	ATP synthase subunit alpha	<i>Aegilops longissima</i>	1
140	2.36	21.60	29.76	K7X0N8	Alpha-gliadin	<i>T. timopheevii subsp. araraticumcum aestivum</i>	19
141	2.36	2.41	8.20	Q42848	Non-specific lipid-transfer protein	<i>H. vulgare</i>	1
142	2.34	2.39	9.51	F2CSK4	Predicted protein	<i>H. vulgare subsp. vulgare</i>	3
143	2.29	2.34	18.98	Q4G3S6	B3-hordein	<i>Hordeum chilense</i>	6
144	2.29	2.33	2.02	Q8HRM3	Ribulose biphosphate carboxylase large chain	<i>Hordeum chilense</i> <i>Dasyogon hookeri</i>	1
145	2.28	5.32	6.14	A0A1D5Z1A1	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	3
146	2.26	2.42	2.84	A0A1E5VRS5	Luminal-binding protein 5	<i>Secale cereale x T. timopheevii subsp. araraticumcum aestivum</i>	2
147	2.23	4.36	23.59	R4JDK8	Low-molecular-weight glutenin subunit	<i>T. timopheevii subsp. araraticumcum aestivum</i>	7
148	2.23	2.27	23.60	M0W4X5	Uncharacterized protein	<i>H. vulgare subsp. vulgare</i>	2
149	2.23	2.27	5.03	F2DXR4	Predicted protein	<i>H. vulgare subsp. vulgare</i>	1
150	2.21	2.36	19.00	F2DB07	Predicted protein	<i>H. vulgare subsp. vulgare</i>	2
151	2.18	2.22	4.15	I1PMF5	Glyceraldehyde-3-phosphate dehydrogenase	<i>O. glaberrima</i>	1
152	2.17	2.21	7.65	D2KFH0	Gliadin/avenin-like seed protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	1
153	2.16	8.73	37.71	P0CZ08	Avenin-like a3	<i>T. timopheevii subsp. araraticumcum aestivum</i>	20
154	2.15	2.18	5.17	M0YZF2	Uncharacterized protein	<i>H. vulgare subsp. vulgare</i>	2
155	2.14	2.17	5.36	W5AUU7	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	1
156	2.13	2.16	2.70	W5I9I6	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	1

157	2.08	10.30	8.54	A0A142ESP3	High molecular weight glutenin subunit 1Bx protein	<i>T. timopheevii</i> subsp. <i>araraticumcum dicoccoides</i>	13
158	2.08	2.12	14.80	B8XU28	Alfa gliadin	<i>T. timopheevii</i> subsp. <i>araraticumcum monococcum</i>	4
159	2.07	2.09	2.46	U5S8M6	Elongation factor 1-alpha	<i>Dendrocalamus latiflorus</i>	1
160	2.07	2.08	6.54	P93602	PUP88 protein; member of trypsin/a-amylase inhibitors family from cereals	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
161	2.06	2.07	29.87	Q84L51	Metallothionein-like protein type 4	<i>H. vulgare</i> subsp. <i>vulgare</i>	1
162	2.04	4.73	33.33	Q2PCC7	Type 2 non specific lipid transfer protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	5
163	2.04	2.06	11.30	M8ADF8	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum urartu</i>	2
164	2.04	2.05	4.76	M7Z267	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum urartu</i>	1
165	2.04	2.04	5.51	I1HT86	Uncharacterized protein	<i>Brachypodium distachyon</i>	1
166	2.03	2.04	4.94	Q9T2L5	26 kDa heat shock protein	<i>H. vulgare</i>	2
167	2.02	6.05	23.78	Q9FVJ5	GSP-A1	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	4
168	2.02	2.02	6.02	M0UGW6	Uncharacterized protein	<i>H. vulgare</i> subsp. <i>vulgare</i>	1
169	2.01	8.05	22.89	H8Y0H9	Gamma prolamin	<i>Elymus elongatus</i>	12
170	2.00	32.68	28.52	A5JTR3	Alpha-gliadin Gli-Ts4	<i>Secale cereale</i> x <i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	20
171	2.00	29.89	27.54	R9XSW3	Alpha-gliadin	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	18
172	2.00	14.96	50.33	C4P5J4	Monomeric alpha-amylase inhibitor	<i>T. timopheevii</i> subsp. <i>araraticumcum dicoccoides</i>	10
173	2.00	14.07	56.78	Q45FA6	Cereal-type amylase inhibitor	<i>Secale cereale</i>	23
174	2.00	13.03	27.94	Q6QGV8	LMW glutenin pGM107	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	31
175	2.00	10.60	27.99	P06470	B1-hordein	<i>H. vulgare</i>	16
176	2.00	10.51	69.00	M0WPC3	Uncharacterized protein	<i>H. vulgare</i> subsp. <i>vulgare</i>	17
177	2.00	8.57	20.27	R4JBK0	Low-molecular-weight glutenin subunit	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	14
178	2.00	8.43	43.93	M8BZV7	Uncharacterized protein	<i>Aegilops tauschii</i>	18
179	2.00	6.07	12.50	A0A089XB95	Low-molecular-weight glutenin subunit	<i>T. timopheevii</i> subsp. <i>araraticumcum urartu</i>	5
180	2.00	6.03	19.92	H8Y0P9	Gamma prolamin	<i>Secale cereale</i> x <i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	13

181	2.00	6.00	23.50	M8ANS4	Avenin-3	<i>T. timopheevii</i> subsp. <i>araraticumcum urartu</i>	5
182	2.00	5.51	8.31	W5I5X1	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	4
183	2.00	5.51	11.36	W5HSW8	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	4
184	2.00	4.28	31.69	Q8S409	Hordoindoline A-1	<i>H. vulgare</i> subsp. <i>vulgare</i>	5
185	2.00	4.00	23.33	Q9LKM0	Nucleoside diphosphate kinase	<i>Lolium perenne</i>	3
186	2.00	3.37	22.15	P04464	Calmodulin	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	3
187	2.00	2.16	16.34	A0A1B2LQF0	Avena alpha amylase trypsin inhibitor	<i>Secale cereale</i> x <i>T.</i> <i>timopheevii</i> subsp. <i>araraticumcum aestivum</i>	2
188	2.00	2.00	19.19	M0VFD9	Uncharacterized protein	<i>H. vulgare</i> subsp. <i>vulgare</i>	1
189	2.00	2.00	4.74	W5DIU6	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
190	2.00	2.00	7.98	Q9MB31	GSH-dependent dehydroascorbate reductase 1	<i>O. sativa</i> subsp. <i>japonica</i>	1
191	2.00	2.00	8.67	M0VDB7	Uncharacterized protein	<i>H. vulgare</i> subsp. <i>vulgare</i>	1
192	2.00	2.00	2.15	W8FJ68	Starch synthase, chloroplastic/ amyloplastic	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
193	2.00	2.00	2.98	W5G105	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
194	2.00	2.00	3.97	W5DQS5	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
195	2.00	2.00	8.41	W5DDD6	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
196	2.00	2.00	3.53	W5BGU3	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	2
197	2.00	2.00	9.71	W5B8I7	Histone H4	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
198	2.00	2.00	15.91	W4ZN48	Uncharacterized protein	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
199	2.00	2.00	6.57	R7WDG6	40S ribosomal protein S14	<i>Aegilops tauschii</i>	1
200	2.00	2.00	12.50	R7W139	Uncharacterized protein	<i>Aegilops tauschii</i>	1
201	2.00	2.00	2.24	Q9ZWH7	Catalase	<i>O. sativa</i>	1
202	2.00	2.00	2.84	Q9FP24	Putative class III chitinase	<i>O. sativa</i> subsp. <i>japonica</i>	2
203	2.00	2.00	6.43	Q946Z1	Thaumatococcus-like protein TLP4	<i>H. vulgare</i>	1
204	2.00	2.00	7.22	Q8H4B9	Os07g0516200 protein	<i>O. sativa</i> subsp. <i>japonica</i>	1
205	2.00	2.00	6.07	Q84QT6	Putative uncharacterized protein	<i>O. sativa</i> subsp. <i>japonica</i>	1
206	2.00	2.00	8.08	Q6ZG29	Globulin-1S-like	<i>O. sativa</i> subsp. <i>japonica</i>	1

207	2.00	2.00	1.83	Q655Y7	Hydroxyproline-rich glycoprotein-like	<i>O. sativa subsp. japonica</i>	1
208	2.00	2.00	7.23	Q2TN84	USP family protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	1
209	2.00	2.00	5.36	Q0IR97	21 kDa protein	<i>O. sativa subsp. japonica</i>	1
210	2.00	2.00	5.77	M0XN12	Uncharacterized protein	<i>H. vulgare subsp. vulgare</i>	1
211	2.00	2.00	5.80	M0WAL0	Uncharacterized protein	<i>H. vulgare subsp. vulgare</i>	1
212	2.00	2.00	4.32	M0VF30	Uncharacterized protein	<i>H. vulgare subsp. vulgare</i>	1
213	2.00	2.00	3.44	M0UUA7	Uncharacterized protein	<i>H. vulgare subsp. vulgare</i>	1
214	2.00	2.00	2.82	K7VF10	Coiled-coil domain-containing protein 97 isoform 1	<i>Zea mays</i>	1
215	2.00	2.00	1.28	K3ZQM9	Uncharacterized protein	<i>Setaria italica</i>	1
216	2.00	2.00	7.79	F2DD34	Predicted protein	<i>H. vulgare subsp. vulgare</i>	1
217	2.00	2.00	9.15	F2D791	Predicted protein	<i>H. vulgare subsp. vulgare</i>	1
218	2.00	2.00	9.62	E7BB46	Barley trypsin inhibitor CMc	<i>H. vulgare subsp. spontaneum</i>	2
219	2.00	2.00	5.04	A0A1D6SCQ9	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	1
220	2.00	2.00	7.96	A0A1D6G2X1	S-adenosyl-L-methionine-dependent methyltransferase superfamily protein	<i>Zea mays</i>	1
221	2.00	2.00	0.90	A0A1D6DFF6	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	1
222	2.00	2.00	1.38	A0A1D5VH79	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	1
223	2.00	2.00	1.60	A0A1D5S1L8	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	1
224	2.00	2.00	2.76	A0A0E0LHV7	Transmembrane 9 superfamily member	<i>O. punctata</i>	1
225	2.00	2.00	5.44	A0A0E0KX19	Uncharacterized protein	<i>O. punctata</i>	1
226	2.00	2.00	0.63	A0A0E0EB48	Uncharacterized protein	<i>Leersia perrieri</i>	1
227	2.00	2.00	1.67	Q0ITE1	REVERSED Os11g0265600 protein	<i>O. sativa subsp. japonica</i>	1
228	1.96	2.00	6.22	M8AZZ5	Bowman-Birk type trypsin inhibitor	<i>Aegilops tauschii</i>	1
229	1.96	2.00	6.90	M0WW64	Uncharacterized protein	<i>H. vulgare subsp. vulgare</i>	1
230	1.89	2.00	4.10	K3YU83	Uncharacterized protein	<i>Setaria italica</i>	1
231	1.88	18.18	59.28	M8BV45	Alpha-amylase/trypsin inhibitor CM3	<i>Aegilops tauschii</i>	33
232	1.77	2.02	5.31	Q40025	Beta-glucosidase	<i>H. vulgare</i>	2
233	1.74	7.62	32.06	A0A1D5XMK2	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	4
234	1.68	1.99	1.23	A0A1B6QIN6	Lipoxygenase	<i>Sorghum bicolor</i>	1

235	1.68	1.86	6.82	FABPH_HUMAN			1
236	1.64	1.82	1.54	M8BPX6	Uncharacterized protein	<i>Aegilops tauschii</i>	1
237	1.57	1.88	6.88	Q0D7S0	Allergen RA5B	<i>O. sativa subsp. japonica</i>	1
238	1.43	1.61	6.20	W5HY83	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	1
239	1.40	3.15	21.85	A0A0E0BKT2	Uncharacterized protein	<i>Leersia perrieri</i>	2
240	1.34	7.37	8.66	Q5I202	High molecular weight glutenin subunit 1Dy10.1t	<i>Aegilops tauschii</i>	10
241	1.34	1.53	2.90	F2CYL7	Predicted protein	<i>H. vulgare subsp. vulgare</i>	1
242	1.33	1.63	25.35	P81713	Bowman-Birk type trypsin inhibitor	<i>T. timopheevii subsp. araraticumcum aestivum</i>	3
243	1.32	1.61	8.90	F2DJC5	Predicted protein	<i>H. vulgare subsp. vulgare</i>	2
244	1.27	1.44	2.37	F2EJ82	Predicted protein	<i>H. vulgare subsp. vulgare</i>	1
245	1.27	1.44	9.09	F2E8C1	Predicted protein	<i>H. vulgare subsp. vulgare</i>	1
246	1.23	4.01	15.34	A8QRK0	Grain softness protein	<i>T. timopheevii subsp. araraticumcum dicoccoides</i>	2
247	1.23	1.39	13.92	W5G4V0	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	1
248	1.23	1.39	15.19	A0A1D6S463	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	1
249	1.20	1.36	5.88	T1MXP3	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum urartu</i>	1
250	1.19	13.21	34.40	Q68AN2	LMW-s KS2	<i>T. timopheevii subsp. araraticumcum aestivum</i>	26
251	1.18	1.34	2.98	P93639	Actin	<i>Zea mays</i>	1
252	1.18	1.34	5.26	W5FSA9	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	1
253	1.17	1.33	1.30	Q6ZFT9	Pyrophosphate--fructose 6-phosphate 1-phosphotransferase subunit alpha	<i>O. sativa subsp. japonica</i>	1
254	1.17	1.33	3.83	K7NED3	14-3-3 protein	<i>Setaria italica</i>	1
255	1.16	1.32	5.36	M0WY94	Uncharacterized protein	<i>H. vulgare subsp. vulgare</i>	1
256	1.15	1.31	5.68	F2EF58	Reticulon-like protein	<i>H. vulgare subsp. vulgare</i>	1
257	1.13	1.28	3.70	W5AVN7	Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	1
258	1.12	1.28	3.49	A0A1D6CIB8	REVERSED Uncharacterized protein	<i>T. timopheevii subsp. araraticumcum aestivum</i>	1
259	1.10	1.26	10.32	M0UNX4	Uncharacterized protein	<i>H. vulgare subsp. vulgare</i>	1

260	1.06	1.28	4.59	Q9AXH7	1-Cys peroxiredoxin	<i>T. timopheevii</i> subsp. <i>araraticumcum</i>	1
261	1.05	1.20	16.28	W5ALQ5	Uncharacterized protein	<i>turgidum</i> subsp. <i>durum</i> <i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	1
262	1.03	1.19	2.64	R7VYY3	Alcohol dehydrogenase 1	<i>Aegilops tauschii</i>	1
263	1.01	29.58	41.43	A0A0E3Z589	Alpha-gliadin	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	19
264	1.00	1.15	10.67	K3ZER9	Uncharacterized protein	<i>Setaria italica</i>	1
265	0.97	1.29	19.74	H9NAV6	Superoxide dismutase	<i>T. timopheevii</i> subsp. <i>araraticumcum aestivum</i>	3

Supplementary Table 5. Protein identifications in the savoury spread (SS). Trypsin digestion peptides were identified after database searching against the Poaceae subset of the Uniprot database appended with the Common Repository of Adventitious Protein (cRAP) database using a 1% global false discovery rate (FDR) threshold.

	Unused	Total	% Cov				Peptides
N	Score	Score	(95%)	Accession	Name	Species	(95%)
1	38.16	38.16	61.25	M0UEE6	Uncharacterized protein	<i>H. vulgare subsp. vulgare</i>	30
3	26.83	28.95	59.62	M0Z714	Uncharacterized protein	<i>H. vulgare subsp. vulgare</i>	20
4	24.68	24.68	64.33	P11643	Alpha-amylase/trypsin inhibitor	<i>H. vulgare</i>	32
5	21.68	21.68	63.09	P32936	Alpha-amylase/trypsin inhibitor	<i>H. vulgare</i>	18
6	17.56	17.56	38.71	I6TRT5	B3 hordein	<i>H. vulgare</i>	19
7	13.36	13.36	19.67	C3W8N0	Alpha-amylase	<i>H. vulgare subsp. vulgare</i>	9
8	13.20	13.21	53.29	Q546U1	Barley dimeric alpha-amylase inhibitor (Bdai-1)	<i>H. vulgare</i>	9
9	12.29	12.30	58.97	M0V3U0	Non-specific lipid-transfer protein	<i>H. vulgare subsp. vulgare</i>	13
10	12.21	12.22	21.20	M0XUU4	Uncharacterized protein	<i>H. vulgare subsp. vulgare</i>	7
11	12.13	12.15	61.64	F2EAF6	Predicted protein	<i>H. vulgare subsp. vulgare</i>	13
12	9.83	9.83	8.80	Q9SAU8	HSP70	<i>T. aestivum</i>	6
13	9.74	9.74	46.58	P16968	Alpha-amylase inhibitor BMAI-1	<i>H. vulgare</i>	6
14	9.41	9.41	13.80	F2D094	Predicted protein	<i>H. vulgare subsp. vulgare</i>	4
15	8.82	8.88	12.96	F2EFA8	ATP synthase subunit beta	<i>H. vulgare subsp. vulgare</i>	6
17	8.24	8.25	29.73	P01086	Trypsin inhibitor	<i>H. vulgare</i>	6
18	8.04	8.04	6.74	Q84LE9	D-Hordein	<i>H. vulgare</i>	5
19	8.00	8.00	35.62	M0VFBV9	Uncharacterized protein (Similar to BAKER'S ASTHMA allergen BDP)	<i>H. vulgare subsp. vulgare</i>	5
20	7.82	7.96	37.01	W5DK32	Uncharacterized protein	<i>T. aestivum</i>	4
21	7.80	7.89	22.91	Q946Y9	Thaumatococcus-like protein	<i>H. vulgare</i>	4
22	6.25	8.70	38.10	Q6S5B1	Alpha amylase inhibitor CM3	<i>T. turgidum subsp. durum</i>	10
23	6.02	6.02	60.00	M0WPC3	Uncharacterized protein	<i>H. vulgare subsp. vulgare</i>	5
24	5.84	5.84	23.58	A0A1D6AZ07	Uncharacterized protein	<i>T. aestivum</i>	3
25	5.76	26.60	37.03	Q43492	Serpin-Z7	<i>H. vulgare</i>	19
26	5.69	5.73	38.62	M0YS73	Uncharacterized protein	<i>H. vulgare subsp. vulgare</i>	7
27	5.20	5.26	9.49	I6TEV2	Gamma 3 hordein	<i>H. vulgare</i>	3
28	5.06	5.11	10.31	Q40069	Peroxidase	<i>H. vulgare</i>	3
29	4.82	4.98	6.28	Q7DMU0	Storage protein	<i>T. aestivum</i>	3
30	4.73	4.81	11.09	F2D525	Elongation factor 1-alpha	<i>H. vulgare subsp. vulgare</i>	4

31	4.37	4.41	4.00	F2E7K9	Predicted protein	<i>H. vulgare subsp. vulgare</i>	2
32	4.10	8.14	18.45	I6R4A7	B-hordein	<i>H. vulgare subsp. vulgare</i>	8
33	4.02	4.82	5.64	F2DUX8	Predicted protein	<i>H. vulgare subsp. vulgare</i>	3
34	4.01	4.01	21.68	P34951	Trypsin inhibitor CMc	<i>H. vulgare</i>	3
35	4.00	8.00	10.97	F2DHX6	Predicted protein	<i>H. vulgare subsp. vulgare</i>	5
36	4.00	6.10	43.15	P93180	Pathogenesis-related protein 4	<i>H. vulgare</i>	7
37	4.00	4.00	15.00	Q75XW2	Glycolytic glyceraldehyde-3-phosphate dehydrogenase	<i>H. vulgare</i>	2
38	4.00	4.00	14.08	Q8S409	Hordoindoline A-1	<i>H. vulgare subsp. vulgare</i>	2
39	4.00	4.00	5.69	A0A1E5UZF1	ADP,ATP carrier protein, mitochondrial	<i>Dichanthelium oligosanthes</i>	2
40	4.00	4.00	16.28	D2KFH1	Avenin-like a4	<i>T. aestivum</i>	3
41	3.80	3.96	10.84	W5CWZ2	Uncharacterized protein	<i>T. aestivum</i>	2
42	3.61	3.74	2.42	F2E5M4	Predicted protein	<i>H. vulgare subsp. vulgare</i>	2
43	3.45	8.02	20.16	K4MR74	Alpha-amylase 2	<i>H. vulgare subsp. spontaneum</i>	6
44	3.08	13.88	43.08	M0Z9Q3	Uncharacterized protein	<i>H. vulgare subsp. vulgare</i>	11
45	2.78	2.93	5.09	K3XX16	Alpha-amylase	<i>Setaria italica</i>	2
46	2.68	3.79	5.07	O24346	ATP synthase subunit beta	<i>Sorghum bicolor</i>	2
47	2.64	2.87	4.56	F2DBC9	ATP synthase subunit alpha	<i>H. vulgare subsp. vulgare</i>	2
48	2.35	2.37	9.52	Q5IU17	Hordoindoline b2	<i>H. vulgare subsp. vulgare</i>	1
49	2.24	2.25	3.34	T1NPU7	Glyceraldehyde-3-phosphate dehydrogenase	<i>T. urartu</i>	1
50	2.13	2.13	1.68	M0XRX1	Uncharacterized protein	<i>H. vulgare subsp. vulgare</i>	1
51	2.03	2.03	1.27	F2DTZ6	Predicted protein	<i>H. vulgare subsp. vulgare</i>	1
52	2.01	2.01	5.03	M0Z3Q4	Uncharacterized protein	<i>H. vulgare subsp. vulgare</i>	1
53	2.01	2.01	4.27	F2E0T8	Predicted protein	<i>H. vulgare subsp. vulgare</i>	1
54	2.00	6.02	62.50	F2EKE4	Predicted protein	<i>H. vulgare subsp. vulgare</i>	4
55	2.00	6.00	4.59	C5WN47	Uncharacterized protein	<i>Sorghum bicolor</i>	4
56	2.00	5.72	5.13	F2DF25	Predicted protein	<i>H. vulgare subsp. vulgare</i>	4
57	2.00	4.00	15.85	Q3BER7	Putative vacuolar defense protein	<i>T. aestivum</i>	2
58	2.00	4.00	16.67	T1WIM8	Dimeric alpha-amylase inhibitor	<i>Dichanthelium oligosanthes</i>	2
59	2.00	2.00	8.94	W5I7T8	Uncharacterized protein	<i>T. aestivum</i>	1
60	2.00	2.00	4.42	W5FE16	Uncharacterized protein	<i>T. aestivum</i>	1
61	2.00	2.00	3.86	W5B9Q2	Uncharacterized protein	<i>T. aestivum</i>	1
62	2.00	2.00	6.28	W5ADG5	GTP-binding nuclear protein	<i>T. aestivum</i>	1

63	2.00	2.00	2.24	T1NDY3	Uncharacterized protein	<i>T. urartu</i>	1
64	2.00	2.00	2.56	T1LXH3	Uncharacterized protein	<i>T. urartu</i>	1
65	2.00	2.00	4.72	Q946Y8	Thaumatococcus-like protein TLP8	<i>H. vulgare</i>	1
66	2.00	2.00	8.03	Q84ZJ2	Uncharacterized protein	<i>Oryza sativa subsp. japonica</i>	1
67	2.00	2.00	3.98	Q7XTH1	OSJNBb0026L04.5 protein	<i>Oryza sativa subsp. japonica</i>	1
68	2.00	2.00	8.54	Q5URW0	Grain softness protein	<i>H. vulgare subsp. vulgare</i>	1
69	2.00	2.00	6.80	Q2V8X0	Limit dextrinase inhibitor	<i>H. vulgare</i>	1
70	2.00	2.00	3.51	Q10SE7	Beta-carotene hydroxylase, putative, expressed	<i>Oryza sativa subsp. japonica</i>	1
71	2.00	2.00	1.10	M8BM42	Putative SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily A member 3-like protein 3	<i>Aegilops tauschii</i>	1
72	2.00	2.00	3.55	M7YUS2	Anthocyanidin reductase	<i>T. urartu</i>	1
73	2.00	2.00	25.00	M0W1K5	Uncharacterized protein (Similar to Thionin BTH7)	<i>H. vulgare subsp. vulgare</i>	1
74	2.00	2.00	3.06	I1H2N2	Uncharacterized protein	<i>Brachypodium distachyon</i>	1
75	2.00	2.00	11.21	F5CPR2	Putative uncharacterized protein	<i>T. aestivum</i>	1
76	2.00	2.00	3.08	F2EHV0	Arp2/3 complex 34 kDa subunit	<i>H. vulgare subsp. vulgare</i>	1
77	2.00	2.00	1.89	F2E4B4	Predicted protein	<i>H. vulgare subsp. vulgare</i>	1
78	2.00	2.00	3.28	F2DFC7	Glutamate dehydrogenase	<i>H. vulgare subsp. vulgare</i>	1
79	2.00	2.00	4.89	C0PC41	Uncharacterized protein	<i>Zea mays</i>	1
80	2.00	2.00	4.59	B9G0Y1	Uncharacterized protein	<i>Oryza sativa subsp. japonica</i>	1
81	2.00	2.00	5.03	B6SPZ2	Glyceraldehyde-3-phosphate dehydrogenase	<i>Zea mays</i>	3
82	2.00	2.00	5.94	B6SNL4	60S ribosomal protein L13a-2	<i>Zea mays</i>	1
83	2.00	2.00	1.94	A0A1D6B6D1	Uncharacterized protein	<i>T. aestivum</i>	1
84	2.00	2.00	1.70	A0A0D9VMJ7	Uncharacterized protein	<i>Leersia perrieri</i>	1
85	2.00	2.00	10.00	A0A0A9LE21	Uncharacterized protein	<i>Arundo donax</i>	1
86	2.00	2.00	6.98	A0A077RWY0	Uncharacterized protein	<i>T. aestivum</i>	1
87	1.89	2.00	3.97	W5DQS5	Uncharacterized protein	<i>T. aestivum</i>	1
88	1.70	3.96	6.07	W5IC42	Uncharacterized protein	<i>T. aestivum</i>	2
89	1.68	4.15	5.67	F2DEU3	Predicted protein	<i>H. vulgare subsp. vulgare</i>	2

Supplementary Table 6. Ingredients and gluten peptide number identified in each food product type.

Code	Ingredients	LC-MS ^a	Total gluten peptides ^b
BC1	Whole white rice (59%), sugar, cocoa (3%), minerals (calcium carbonate, iron, zinc oxide), salt, flavours, dextrose, barley malt extract , vitamins (vitamin C, niacin, thiamin, riboflavin, folate). <i>Contains gluten containing cereals.</i>	W	
BC2	Corn (89%), sugar, salt, barley malt extract , vitamins (vitamin C, vitamin E [soy], niacin, riboflavin, thiamin, folate), minerals (iron, zinc oxide).	W, O	
BC3	Whole grain cereals (66%) (whole wheat, rolled oats), sultanas (17%), sugar, triticale (6%), apricot pieces (3.5%)(concentrated apricot puree, concentrated apple puree, invert sugar, humectant [glycerol], sugar, wheat fibre , gelling agent [pectin], acidity regulator [296], natural flavour, colour [paprika, lutein]), barley malt extract , natural flavour, salt, honey, mineral (iron), vitamins (niacin, riboflavin, folate, thiamin).	W, O	
BC4	Whole wheat (38%), sultanas (26%), wheat bran (25%), sugar, barley malt extract , salt, humectant (glycerol), minerals (iron, zinc oxide), vitamins (niacin, riboflavin, vitamin B6, thiamin, folate).	W, B, R	177 (wheat 154, oats 21, barley 1 & rye 1)
BC5	Whole grain cereals (54%), (whole wheat , brown rice, rolled oats), corn (16%), fruit (13%) (sultanas, currants, dried apple), sugar, sliced almonds (2%), wheat germ , invert sugar syrup, barley malt extract , salt, vitamins (vitamin C, niacin, vitamin B6, riboflavin, folate), mineral (iron), preservative (220). <i>Contains gluten containing cereals.</i>	W, O	
BC6	Rice (42%), whole grains (24%) (whole wheat, wholegrain oat flour), wheat gluten , sugar, minerals (calcium carbonate, iron, zinc oxide), oat fibre , salt, barley malt extract , vitamins (niacin, vitamin B6, riboflavin, thiamin, folate).	W, B, O	
BC7	Cereals (49%) (wheat flour, oatmeal , maize flour), sugar, wheat protein , maltodextrin, molasses, oat fibre , salt, minerals (calcium carbonate, iron), barley malt extract , raising agent (potassium bicarbonate), flavour, natural colour (paprika, turmeric), vitamins (vitamin C, niacin, thiamin, riboflavin, vitamin B6, folate)	W, B, R, O	
BB1	Gluten free flour (rice flour, tapioca starch, maize starch, soy flour, emulsifier [soy lecithin], thickeners [415, 412, 464]), dried fruit (apricots [5%][preservative (220)], figs [4%], raisins [3%]), sunflower oil, quinoa flakes (7%), invert sugar syrup, modified starch (1422), sugar, vegetable fibre (chicory), honey, humectant (glycerol), natural flavour, raising agent (sodium bicarbonate), salt.	ND	
BB2	Whole grains (48%)(whole wheat flour [vitamins (thiamin, folate)], rolled oats), wheat flour , vegetable oil (sunola), invert syrup, orange piece (orange peel [4%], glucose syrup, sugar, acidity regulator [citric acid]), sugar, black chia seeds (3%), honey, humectant (glycerol), natural flavour, oat fibre , raising agents (ammonia bicarbonate, sodium bicarbonate), salt.	B, W, O	156 (Wheat 135, Oats 15, Barley 5, Rye 1)
BB3	Whole grain cereals (40%) (wheat flour, wheat (12%), raw sugar, salt, barley malt extract , vitamins (niacin, thiamin, riboflavin, folate), mineral (iron)), sugar, sunflower and/or canola oil, wheat flour, macadamia nuts (5%), vegetable fibre, barley malt extract, salt, flavour, raising agents (500, 503). <i>Contains cereals containing gluten and tree nuts. May contain peanuts, other tree nuts, sesame, egg, milk and soy.</i>	B, W, R	
BM1	Filtered water, skim milk powder, cane sugar, soy protein, corn maltodextrin, vegetable oils (sunflower, canola), hi-maize starch, inulin, fructose, cocoa (0.5%), flavours, mineral (calcium), food acid (332), vegetable gums (460, 466, 407), stabiliser (452), salt, vitamins (C, niacin, A, B12, B6, B2, B1, folate). contains milk and soy. <i>Gluten free.</i>	ND	

BM2	Filtered water, skim milk powder, cane sugar, wheat maltodextrin , soy protein, vegetable oils (sunflower, canola), vegetable fibre, hi-maize starch, corn syrup solids, fructose, cocoa (0.5%), oat flavours , mineral (calcium), acidity regulator (332), flavours,, vegetable gums (460, 466, 407), stabiliser (452), salt, vitamins (C, niacin, A, B12, B6, B2, B1, folate). Contains milk, soy and cereals. <i>Containing gluten.</i>	O	
BM3	Reduced fat milk (75%), water, extract of malt barley or malt barley and rice, milk solids, sugar, cocoa, stabilisers (418, 452, 331), maltodextrin (corn), minerals (calcium, iron), vitamins (C, B3, B6, B2, D, B12). <i>Contains milk and barley. Contains gluten.</i>	B	20 (Barley 11, Oats 9)
PD1	Extract of malt barley (16%) or malt barley and rice (total extract 35%), milk solids, sugar, cocoa, minerals (calcium, iron), maltodextrin (corn), vitamins (C, B3, A, B6, D, B2, B12), emulsifier (soy lecithin). <i>Contains gluten, milk and soy.</i>	B	
PD2	Barley malt extract (41%), sugar, milk solids, maltodextrin, cocoa (9%) (with soy lecithin), mineral salts (341, 500), vegetable oil, vitamins & minerals (A, B1, B2, D, niacin, iron). <i>Contains gluten, milk and soy.</i>	B, W	76
PD3	Sugar, cocoa (17), barley malt extract , wheat starch . Minerals: calcium phosphate (calcium, ferric pyrophosphate (iron)). Vitamins: calcium ascorbate (vitamin C), nicotinamide (niacin, vitamin B3), riboflavin (vitamin B2), thiamine mononitrate (vitamin B1), retinyl acetate (vitamin A), folic acid (folate), cholecalcifrol (vitamin D3). <i>This product contains gluten.</i>	B, W, O	(Wheat 56, Barley 18, Oats 2)
PD4	Sugar, fat reduced cocoa powder 18%, cereals 11% (wheat, barley, malted wheat), banana flakes 3%, sunflower lecithin, honey 0.3%, vanilla flavouring salt. <i>Contains: wheat. Contains gluten.</i>	B, W	
SS	Yeast extract (from yeast grown on barley and wheat), salt, potassium chloride, malt extract (from barley), colour (E150d) (contains preservative (sulphur dioxide)), vegetable extract (contains onion, celery) niacin, thiamine, riboflavin, folic acid. <i>Allergen statement: Contains barley and wheat.</i>	W, B	13 (Barley 11, Wheat 2)

- a. LC-MS detected W, wheat; B, barley, O, oats; R, rye.
- b. Total number of gluten-derived peptides identified in combined search of each food product type.

Supplementary Table 7. Gluten peptides detected in breakfast cereals (BC). The spectral dataset was searched against the Poaceae subset of the Uniprot database. Only peptides with $\geq 95\%$ confidence in this study abiding by trypsin digestion rules are reported. The mass error (ΔM) is presented in parts per million (ppm).

Protein name	Species	Accession	Peptide Sequence	ΔM (ppm)
High molecular weight glutenin subunit Dx5	<i>T. aestivum</i>	X2JUA0	ACQQVMDQQLR	-2.31
Low-molecular-weight glutenin subunit	<i>T. aestivum</i>	R4JFB5	AIYSIVLQEQQQVR	2.25
Gamma-gliadin	<i>T. aestivum</i>	R9XT02	APFASIIAGIGGQ	11.49
Gamma-gliadin	<i>T. aestivum</i>	B6UKP6	APFASIVASIGGQ	1.00
Gamma-gliadin	<i>T. aestivum</i>	R9XU99	APFSSVVAGIGGQ	3.59
High molecular weight glutenin subunit	<i>T. aestivum</i>	A9YSK3	AQQPATQLPTVCR	1.08
High molecular weight glutenin subunit	<i>T. aestivum</i>	W6AX70	CCQQLR	2.47
Avenin-like protein	<i>T. aestivum</i>	V5M3L1	CHAIHIVVEAIIQQSSQQWQEPQQQAQHK	-1.28
Type-b avenin-like protein	<i>T. aestivum</i>	A0A173DQZ4	CHAIHNVVEAIMQQSSQQQR	-1.32
Type-b avenin-like protein	<i>T. aestivum</i>	A0A173DQZ7	CHAIHSVVEAIMQQSSQQWQER	-2.60
Gamma-gliadin	<i>T. aestivum</i>	I7KM78	CPAIHNIVHAIVMQQQHVDVDR	-4.75
Type-b avenin-like protein	<i>T. aestivum</i>	A0A173DQZ7	CQAIHNVAEAIR	-2.83
Alpha-gliadin protein	<i>T. aestivum</i>	X2KWE1	CQAIHNVVAHAIIMHQQQQQQQEQQQQLQQ QQQQLHQQR	-5.37
Alpha-gliadin	<i>T. aestivum</i>	K7X1L1	CQAIHNVVHAILHHHQQQQQQPSSQVSYQQPQEQYPSGQGSFQSSQNPQAQGSV QPQQLPQFQEIR	-6.00
Alpha-gliadin	<i>T. aestivum</i>	A0A0E3Z7F7	CQAIHNVVHAILHQQQQQQQQQQK	-4.23
Alpha-gliadin	<i>T. aestivum</i>	K7XE90	CQAIHNVVHAILHQQQR	-1.69
Alpha/beta-gliadin	<i>T. aestivum</i>	A0A0K2QJY6	CQAIQNVVHAILHQQQR	-3.64
Avenin-like a1	<i>T. aestivum</i>	Q2A784	CQAVCSVAQIIMR	1.27
Avenin-like a4	<i>T. aestivum</i>	D2KFH1	CQAVCSVAQVIMR	1.28
Avenin-like a3	<i>T. aestivum</i>	P0CZ08	CQAVCSVSIIMR	0.24
High molecular weight glutenin subunit	<i>T. aestivum</i>	W6AX70	CRPVAVSQVVR	-1.63
Avenin-3	<i>T. urartu</i>	M8ANS4	DALLQQCSPVADMSFLR	-0.38
High molecular weight glutenin subunit Dx5	<i>T. aestivum</i>	X2JUA0	DISPECHPVVSPVAGQYEQIVVPPK	-1.56
Alpha/beta-gliadin	<i>T. aestivum</i>	I0IT51	DVIVLQQHNIAHESSQVLQSSYQVLQQLCCQQLR	-1.75
Alpha-gliadin Gli-Ts4	<i>T. sphaerococcum</i>	A5JTR3	DVIVLQQHNIVR	5.54
High-molecular-weight glutenin subunit	<i>T. aestivum</i>	T2HRF3	DVSPECQPVGGGPVAR	2.10

X-type high molecular weight glutenin subunit 1Bx23	<i>T. turgidum</i>	W8Q5H7	DVSPGCRPITVSPGTR	-1.29
Alpha-gliadin	<i>T. aestivum</i>	R9XUM8	DVVLQQHNI AHAR	-0.90
Alpha-gliadin	<i>T. aestivum</i>	A0A1K0JNE4	DVVLQQHNI AHASSQVLQQSSYQLLQQLCCQR	-2.65
Alpha-gliadin	<i>T. aestivum</i>	K7X1L1	DVVLQQHNI AHASSQVLQQSSYQLLQQLCCQQLFQIPEQSR	-3.51
Alpha-gliadin	<i>T. aestivum</i>	R9XUP7	DVVLQQHNI AHASSQVLQQSTYQLLQQLCCQQLQIPEQSR	-0.10
Alpha-gliadin	<i>T. spelta</i>	A0A0E3Z6U5	DVVLQQHNI AHGR	1.15
Alpha-gliadin protein	<i>T. aestivum</i>	X2KVI4	DVVLQQHNI AHGSSQVLQQSTYQLVQQLCCQQLWQIPEQSR	-3.22
Alpha/beta-gliadin	<i>T. aestivum</i>	I0IT55	DVVLQQPNI AHASSK	-1.44
Gliadin/avenin-like seed protein	<i>T. aestivum</i>	D2KFH0	ECCEQFR	2.61
Gamma-gliadin	<i>T. aestivum</i>	I7KM78	EFLQCNPEEK	0.88
High molecular weight glutenin subunit	<i>T. aestivum</i>	A0A060MZP1	EGEASEQLQCER	-0.85
Alpha-gliadin	<i>T. aestivum</i>	K7X0N8	ELCCQHLWQIPEQSQCQAIHNVVHAILHQQK	-5.93
High-molecular-weight glutenin subunit	<i>T. aestivum</i>	T2HRF3	ELQEHSK	-0.50
Avenin-like a3	<i>T. aestivum</i>	P0CZ08	FGQPQQQGSFGQPQQVPVEIMR	-1.45
Gamma-gliadin	<i>T. aestivum</i>	I7KM78	GFGQPQQLGQEMPMQPQHLGQHSILPQLAQYK	-1.55
High molecular weight glutenin subunit	<i>T. aestivum</i>	A9YSK3	GHYPASLQQPGQGPQR	-0.26
High molecular weight glutenin subunit	<i>T. aestivum</i>	A0A060MZP1	GQQGQQSGQQLGQQGQQGQPGQK	-2.09
High molecular weight glutenin subunit	<i>T. aestivum</i>	A9YSK3	GQQGYPTSLQPGQGGQGYPTSLQHTGQR	-1.48
Y-type HMW glutenin subunit	<i>T. spelta</i>	Q7XZI2	GQQSGGQSGGQHQPQGGQSGQEK	-2.78
Alpha-gliadin	<i>T. aestivum</i>	A0A0E3Z589	GSVQPQLPQFEEIR	-0.90
LMW-glutenin P3-6	<i>T. aestivum</i>	Q8W3V4	GTFLQPHQIAR	-5.11
High molecular weight glutenin subunit	<i>T. aestivum</i>	W6AX70	HYPASLQQPGQGGHYTASLQPGQGGQGHYPASLQQVGGQIGQLGQR	0.90
High molecular weight glutenin subunit Dx5	<i>T. aestivum</i>	X2JUA0	IFWGIPALLK	-5.07
High molecular weight glutenin subunit 1Ay protein	<i>T. dicoccoides</i>	J9Q8Q6	IGQQQPEK	0.31
Gamma-gliadin	<i>T. aestivum</i>	I7KM78	IHDQERPQQSFLQQPLIQQPYPPEPQQPLFPQK	-3.80
LMW glutenin pGM107	<i>T. aestivum</i>	Q6QGV8	ILPTMCSVNVPLYR	1.32
Alpha-gliadin	<i>T. turgidum</i> <i>subsp. paleocolchicum</i>	B1PDK7	ILQQQLIPCR	3.24
High molecular weight glutenin subunit	<i>T. aestivum</i>	A0A060MZP1	LEGGDALSASQ	-1.40
High-molecular-weight glutenin subunit Bx7.1	<i>T. aestivum</i>	G4Y3Y0	LEGS DALSTR	-1.40

LMW-glutenin P3-6	<i>T. aestivum</i>	Q8W3V4	LEVMTSIALR	3.30
LMW-GS	<i>T. aestivum</i>	H6VLQ4	LFLQQQCSPVAMPQR	-2.64
Low-molecular-weight glutenin subunit group 2 type I	<i>T. aestivum</i>	Q8W3X5	LFLQQQCSPVAMPQSLAR	2.24
High molecular weight glutenin subunit	<i>T. aestivum</i>	W6AX70	LPWSTGLQMR	0.30
Alpha-gliadin storage protein	<i>T. spelta</i>	A0A1P8DT36	LQCQAIHNVVHAILHQQQK	-2.16
High-molecular-weight glutenin By8	<i>T. aestivum</i>	Q0Q5D8	LVAVSQVVR	-0.82
High molecular weight glutenin subunit 1Ay protein	<i>T. dicoccoides</i>	J9Q8Q6	LVVDQQLAGR	2.34
High-molecular-weight glutenin subunit	<i>T. aestivum</i>	Q7XZB4	LVVDQQLASR	1.73
Alpha-gliadin	<i>T. aestivum</i>	A0A1K0JNE4	LWQIPEQSR	-1.27
Alpha-gliadin	<i>T. aestivum</i>	K7X0N8	MDVVVLQQHNIVHGR	0.22
High molecular weight glutenin subunit	<i>T. aestivum</i>	W6AX70	MEGGDALSASQ	3.21
Type-b avenin-like protein	<i>T. aestivum</i>	A0A173DQZ7	MSLQALR	0.29
Avenin-like a1	<i>T. aestivum</i>	Q2A784	MVLQTLPLMCR	0.63
Gamma-gliadin	<i>T. aestivum</i>	U5U7C7	NDCQVMQQCCQQLAQIPR	1.32
Gamma-gliadin	<i>T. aestivum</i>	B6UKM5	NFLQQC�NHVSLVSSLSIILPR	-2.50
Alpha-gliadin	<i>T. aestivum</i>	K7XE90	NLALQTLPR	0.83
Glutenin	<i>T. aestivum</i>	B8ZX17	QEQDQPPGQR	0.91
High-molecular-weight glutenin subunit	<i>T. aestivum</i>	T2HRF3	QGGQGGQSGQGQPR	0.49
High molecular weight glutenin subunit	<i>T. aestivum</i>	W6AX70	QGGQLEGGQPPGQGGQTR	-0.73
High molecular weight glutenin subunit	<i>T. aestivum</i>	A9YSK3	QGSYYPGQASPQPPGQGGQPGK	1.07
HMW glutenin subunit	<i>T. aestivum</i>	Q6RX93	QGYDSPYHVSAEQQAASPMVAK	-1.95
Low molecular weight glutenin subunit	<i>T. turgidum</i> <i>subsp. durum</i>	Q9FEQ2	QIAQLEVMTSIALR	2.61
Gamma-gliadin	<i>T. aestivum</i>	I7KM78	QLAHISEPSR	-0.86
Avenin-like protein	<i>T. aestivum</i>	V5M3L6	QLLEQMPCVAFLQQK	0.44
Alpha/beta-gliadin MM1	<i>T. urartu</i>	M7ZZV2	QLPQFEEIR	2.63
Low-molecular-weight glutenin subunit	<i>T. aestivum</i>	A0A0S2GJT4	QLPQIPEQSR	-3.27
High molecular weight glutenin subunit	<i>T. aestivum</i>	A0A060MZP1	QLQQPEGGQGGQPEGGQGGQQR	-2.30
Type-b avenin-like protein	<i>T. aestivum</i>	A0A173DQZ7	QLSQIPEQFR	-1.67
High molecular weight glutenin subunit	<i>T. aestivum</i>	A0A060MZP1	QPGYYSTSPQQLGGQPR	-0.86

Avenin-like a3	<i>T. aestivum</i>	P0CZ08	QQCCQPLAQISEQAR	-1.14
Gamma-gliadin	<i>T. aestivum</i> <i>x T. elongatum</i>	B6DQD5	QQCCQQLAR	0.31
High-molecular-weight glutenin subunit	<i>T. aestivum</i>	T2HRF3	QQDQQSGQGQPPGQR	-0.15
HMW-glutenin By subunit	<i>T. turgidum</i>	Q6UJY7	QQLGQQQQR	4.38
High molecular weight glutenin subunit	<i>T. aestivum</i>	A9YSK3	QQPGQGQHPEQ GK	-0.69
High molecular weight glutenin subunit	<i>T. aestivum</i>	W6AX70	QQPGQGQIQGQQLGQGR	0.00
High molecular weight glutenin subunit	<i>T. aestivum</i>	A0A060MZP1	QQPGQGQQLR	-4.82
High molecular weight glutenin subunit	<i>T. aestivum</i>	W6AX70	QQPGQGQPEQGQPGQGGQGGYYPTSPQQPGQGK	-0.94
High molecular weight glutenin subunit	<i>T. aestivum</i>	W6AX70	QQPGQGQQR	2.38
Avenin-like a1	<i>T. aestivum</i>	Q2A784	QQQGQSFQPPQQVPVEIMR	1.58
Avenin-like a4	<i>T. aestivum</i>	D2KFH1	QQGQSFQPPQQVQSFQSPQHQPVEITR	-1.27
Type-b avenin-like protein	<i>T. aestivum</i>	A0A173DQZ7	QQQPQQWQGMYPQQPAQHESIR	-2.32
High molecular weight glutenin subunit 1Dy protein	<i>T. aestivum</i>	V9TRL3	QVVDQQLAGR	0.77
High-molecular-weight glutenin subunit	<i>T. aestivum</i>	T2HRF3	QVVDQQLR	-0.68
High molecular weight glutenin subunit 1Bx protein	<i>T. dicoccoides</i>	A0A142ESP3	QYEQPVVPSK	0.84
High molecular weight glutenin subunit	<i>T. aestivum</i>	W6AX70	QYEQTVVPPK	-1.34
Gamma-gliadin	<i>T. aestivum</i>	B6UKP1	RPLFQLVQGQGIIQPQPAQLEVIR	-7.35
Gamma-gliadin	<i>T. aestivum</i>	B6UKP1	SDCQVMQQCCQQLAQIPQQLQCAIHSVVHSIIMQQEQR	-1.02
Gamma-gliadin	<i>T. turgidum</i>	B6UKL5	SDCQVMQQCCQQLAQIPR	1.33
Gamma-gliadin	<i>T. urartu</i>	B6UKS0	SDCQVMR	1.02
Gliadin/avenin-like seed protein	<i>T. aestivum</i>	D2KFH0	SDQPQSFPPQPQK	1.31
Gamma-gliadin	<i>T. aestivum</i>	R9XWD0	SFIQPSLQQQLNPCK	2.60
Gamma-gliadin	<i>T. urartu</i>	B6UKS0	SLVLGTLPTMCNVFVPPECSTTK	-3.00
Gamma-gliadin	<i>T. aestivum</i>	R9XU99	SLVLQTLPTMCNVYVPPECSIK	-0.81
Gamma gliadin	<i>T. aestivum</i>	Q6EEX1	SLVLQTLPTMCNVYVPPYCFSTR	-1.83
Low-molecular-weight glutenin subunit	<i>T. urartu</i>	A0A089XB95	SQMLEQSICHVMQQQCCQQLR	0.00
LMW-GS	<i>T. aestivum</i>	H6VLQ4	SQMLQQCSCHVMQQQCCQQLPQPQSR	-6.18
Low-molecular-weight glutenin subunit Glu-A3	<i>T. aestivum</i>	X2JAE7	SQMLQQSICHVMQQQCCQQLR	0.45
Low molecular weight glutenin subunit	<i>T. turgidum</i> <i>subsp. durum</i>	Q9FEQ2	SQMLQQSICHVMQR	-0.91

LMW-s KS2	<i>T. aestivum</i>	Q68AN2	SQMLQQSSCHMMQQQCCQLPQIPQQSR	-4.06
LMW-GS	<i>T. aestivum</i>	R9XVA5	SQMLQQSSCHVMQQQCCQLLQIPQQSR	-0.78
Low-molecular-weight glutenin subunit	<i>T. aestivum</i>	R4JBK0	SQMLWQSSCHVMQQQCCQLPR	-2.60
Low-molecular-weight glutenin subunit	<i>T. aestivum</i>	A0A0S2GJT4	SQMLWQSSCHVMQQQCCR	1.25
Low molecular weight glutenin	<i>T. aestivum subsp. tibeticum</i>	Q7Y074	SQMWWQSSCHVMQQQCCQLPQIPEQSR	-1.60
Low-molecular-weight glutenin subunit	<i>T. aestivum</i>	H9XGZ9	SQMWWQSSCHVMQQQCCQLPR	-3.77
Low molecular weight glutenin	<i>T. aestivum</i>	Q5MFP0	SQMWWQSSCHVMQQQCCQLQIPEQSR	0.28
LMW glutenin	<i>T. turgidum subsp. durum</i>	Q41603	SQMWWQSSCHVMQQQCCQLSQIPEQSR	-1.88
Low-molecular-weight glutenin subunit protein 1-50	<i>T. aestivum x T. elongatum</i>	A9UID2	SQVLQQSICHVMQQQCCQLR	13.51
Alpha/beta-gliadin	<i>T. aestivum</i>	A0A0K2QJA2	SQVLQQSTYQLLQELCCQHLWQIPEQSQCQAIHNVVHAILR	-0.86
Alpha-gliadin	<i>T. aestivum</i>	K7X0N8	SQVLQQSTYQLLR	1.95
Avenin-3	<i>T. urartu</i>	M8ANS4	SQVVQHSSCLVMWEQCCQLK	-2.60
High molecular weight glutenin subunit 1Dy protein	<i>T. aestivum</i>	V9TRL3	SVAVSQVAR	-0.07
Low molecular weight glutenin subunit	<i>T. aestivum</i>	Q75ZV8	TLPMPCR	0.46
LMW-GS	<i>T. aestivum</i>	R9XWE6	TLPTMCNVNPLYR	2.77
Low-molecular-weight glutenin subunit	<i>T. aestivum</i>	Q1ZZT4	TLPTMCR	-1.74
Low molecular weight glutenin subunit	<i>T. aestivum</i>	K7WV92	TLPTMCSVNPLYR	0.96
Low-molecular-weight glutenin subunit	<i>T. aestivum</i>	R4JAP5	TLPTMCSVNVPVYGTITGVPFVGTR	0.35
Low-molecular-weight glutenin subunit	<i>T. aestivum</i>	A0A0S2GJR0	TLPTMCSVNVPVYGTITVPGVGTR	-0.52
High molecular weight glutenin subunit 1Ay protein	<i>T. dicoccoides</i>	J9Q8Q6	TSLQQPGQR	4.03
Gamma-gliadin	<i>T. aestivum</i>	I7KM78	TSQQNSCQLK	10.34
LMW-GS	<i>T. aestivum</i>	R9XVA5	TTTSVPFVGTVGVSY	0.32
Gliadin/avenin-like seed protein	<i>T. aestivum</i>	D2KFH0	TVQSFQQLISCR	1.26
Low-molecular-weight glutenin subunit Glu-A3	<i>T. aestivum</i>	X2JAE7	VFLQQCIPVAMQR	1.42
Low molecular weight glutenin subunit	<i>T. macha</i>	B9VUV5	VFLQQCNPVAMPQR	-0.27
Low molecular weight glutenin subunit B3-3	<i>T. aestivum</i>	D3UAL8	VFLQQCNPVAMPQSLAR	5.62
Low-molecular-weight glutenin subunit	<i>T. aestivum</i>	Q1ZZT4	VFLQQCQSHVAMSQR	-2.35
Low molecular weight glutenin subunit	<i>T. turgidum subsp. durum</i>	Q9XGE9	VFLQQCSPMAMPQSLAR	-3.39
LMW glutenin	<i>T. turgidum subsp. durum</i>	Q41603	VFLQQCSPVAIPQR	5.10

Low-molecular-weight glutenin subunit	<i>T. aestivum</i>	A0A0S2GJR0	VFLQQQCSPVAIPQSLAR	3.11
LMW-glutenin P3-6	<i>T. aestivum</i>	Q8W3V4	VFLQQQCSPVAMPQHLAR	-1.39
LMW-GS	<i>T. aestivum</i>	R9XWE6	VFLQQQCSPVAMPQR	2.12
Low-molecular-weight glutenin subunit	<i>T. aestivum</i>	R4JFB5	VFLQQQCSPVAMPQSLAR	1.42
Low-molecular-weight glutenin subunit	<i>T. aestivum</i>	R4JAP5	VFLQQQCSPVATPQILAR	0.12
Low-molecular-weight glutenin subunit	<i>T. aestivum</i>	R4JFB5	VNVPLYR	0.85
Low-molecular-weight glutenin subunit	<i>T. aestivum</i>	R4JDK6	VPGVGTGVGGY	4.51
Alpha/beta-gliadin	<i>T. aestivum</i>	A0A0K2QJA2	VPVPQLQPK	2.37
Alpha-gliadin	<i>T. aestivum</i>	A0A0E3Z516	VPVPQLQPQNPSQQQPQK	1.80
High molecular weight glutenin subunit	<i>T. aestivum</i>	W6AX70	VQQPATQLPIMCR	0.71
High molecular weight glutenin subunit	<i>T. aestivum</i>	A0A060MZP1	YYPTSPQQPGQEQQPR	1.72
High molecular weight glutenin subunit	<i>T. aestivum</i>	A0A060MZP1	YYPTSSQQPGQLQQLAQGGQQQPER	0.17
Gliadin-like avenin	<i>A. sativa</i>	L0L6J0	AFALQALPAMCDVYVPPHCPVATVPLSGF	1.30
Avenin	<i>A. sativa</i>	P27919	CDAIWR	0.60
Avenin	<i>A. sativa</i>	P27919	ALPVDVLANAYR	2.53
Avenin	<i>A. magna</i>	I4EP67	CPAIHSVVQAILQK	-4.30
Gliadin-like avenin	<i>A. sativa</i>	L0L5H3	CSPVEMVPFLR	2.38
Avenin	<i>A. sativa</i>	P27919	DFPITWPWK	-2.88
Avenin	<i>A. sativa</i>	P27919	ELGGFFGTQQGLIGK	6.61
Avenoindoline	<i>A. sativa</i>	J7FKU9	GGCQELLGECCSR	1.52
Avenin	<i>A. sativa</i>	P27919	GQESGVFTPK	0.00
Avenin protein	<i>A. murphyi</i>	G8ZCW5	LEQIPEQLR	1.41
Avenoindoline	<i>A. sativa</i>	J7FKU9	LGQMPPQCR	1.24
Avenin	<i>A. sativa</i>	P27919	NECCQLLGQMPSECR	-0.06
Avenin-E	<i>A. sativa</i>	Q09114	QAICQVAR	-0.06
Gliadin-like avenin	<i>A. sativa</i>	L0L6J0	QAICQVTR	-1.32
Gliadin-like avenin	<i>A. sativa</i>	L0L6J0	QFLVQQCSPVAAVPFLR	-1.56
Gliadin-like avenin	<i>A. sativa</i>	L0L6J0	QLAQIPEQLR	-3.68
Avenin	<i>A. magna</i>	I4EP58	QLAQIPEQVR	1.76
Gliadin-like avenin	<i>A. sativa</i>	L0L5H3	QLAQIPR	-0.07

Avenin	<i>A. sativa</i>	Q2EPY2	QLEQIPEQLR	-1.27
Avenin	<i>A. magna</i>	I4EP67	QQCCQQLAQIPEQVR	-0.26
Gliadin-like avenin	<i>A. sativa</i>	L0L5H3	QSTCHVMR	1.14
Avenin	<i>A. magna</i>	I4EP67	SQILQQSSCQVMK	0.40
Avenin	<i>A. sativa</i>	Q2EPY2	SQILQQSSCQVMR	1.87
B-hordein	<i>H. vulgare subsp. vulgare</i>	Q3YAF9	VFLQQQCSPVR	7.36
Alpha-gliadin storage protein	<i>S. strictum</i> <i>subsp. africanum</i>	F4ZL28	SQILQENVCAVMR	1.42

Supplementary Table 8. Gluten peptides detected in breakfast bars (BB). The spectral dataset was searched against the Poaceae subset of the Uniprot database. Only peptides with $\geq 95\%$ confidence in this study abiding by trypsin digestion rules are reported. The mass error (ΔM) is presented in parts per million (ppm).

Protein name	Species	Accession	Sequence	ΔM (ppm)
High molecular weight glutenin subunit	<i>T. aestivum</i>	A0A0K0KDM6	ACQQVMDQQLR	-0.18
HMW glutenin subunit 1Bx13	<i>T. aestivum</i>	A5HMG1	AGSFYPSK	2.78
High molecular weight glutenin subunit	<i>T. aestivum</i>	Q75ZV8	AIYSIVLQEQQQVR	-2.39
Gamma-gliadin	<i>T. aestivum</i>	Q94G97	APFASIVADIGGQ	1.86
High molecular weight glutenin subunit	<i>T. aestivum</i>	A0A060MZP1	AQLLAAQLPAMCR	0.67
High molecular weight glutenin subunit	<i>T. aestivum</i>	A0A0K0KDM6	AQQPATQLPTVCR	0.91
High molecular weight glutenin subunit	<i>T. aestivum</i>	W6AX70	CCQQLR	1.77
Avenin-like b2	<i>T. aestivum</i>	P0CZ05	CHAIHIVVEAIQQQSQQWQEPQQQAQHK	-3.31
Type-b avenin-like protein	<i>T. aestivum</i>	A0A173DQZ4	CHAIHNVVEAIMQQQSQQQR	-3.86
Type-b avenin-like protein	<i>T. aestivum</i>	A0A173DQZ7	CHAIHSVVEAIMQQQSQQWQER	-1.73
Gamma-gliadin	<i>T. aestivum</i>	I7KM78	CPAIHNIVHAIVMQQQHVDVDR	-5.57
Avenin-3	<i>T. urartu</i>	M8AQI5	CQAIHNVAESIR	-0.70
Alpha-gliadin	<i>T. turgidum subsp. durum</i>	D2X6D9	CQAIHNVAHAIIIMHQQQQQQQEQQQQLQQQQQQQLHQQ	-6.07
Alpha-gliadin storage protein	<i>T. spelta</i>	A0A1P8DTA3	CQAIHNVVHAILHQQQQQQQQQQK	-1.85
Alpha-gliadin	<i>T. aestivum</i>	A0A0E3Z7F7	CQAIHNVVHAILHQQQQQQQQQQK	-5.35
Alpha-gliadin	<i>T. aestivum</i>	K7XE90	CQAIHNVVHAILHQQQR	-1.47
Alpha/beta-gliadin	<i>T. aestivum</i>	A0A0K2QJY6	CQAIQNVVHAILHQQQR	-2.35
Avenin-like a1	<i>T. aestivum</i>	Q2A784	CQAVCSVAQIIMR	2.55
Avenin-like a4	<i>T. aestivum</i>	D2KFH1	CQAVCSVAQVIMR	0.64
Avenin-like a3	<i>T. aestivum</i>	P0CZ08	CQAVCSVSQIIMR	-0.39
High molecular weight glutenin subunit	<i>T. aestivum</i>	W6AX70	CRPVAVSQVVR	0.77
High molecular weight glutenin subunit	<i>T. aestivum</i>	A0A0K0KDM6	DISPECHPVVSPVAGQYEQQIVVPPK	-1.56
High molecular weight glutenin subunit	<i>T. aestivum</i>	A0A060MZP1	DVSPECQPVGGGPPVAR	0.00
HMW glutenin subunit Gx	<i>T. timopheevii subsp. araraticum</i>	D7RT26	DVSPGCRPITVGPGR	-15.96
Alpha-gliadin storage protein	<i>T. spelta</i>	A0A1P8DTD6	DVVLQQHNIHAR	-2.03
Alpha-gliadin storage protein	<i>T. spelta</i>	A0A1P8DSZ1	DVVLQQHNIHASSQVLQSSYQLLQQLCCQR	-2.33

Alpha-gliadin	<i>T. aestivum</i>	A0A0E3Z589	DVVLQQHNI AHASSQVLQQSSYQQLQQLCCQQLFQIPEQSR	-1.91
Alpha-gliadin	<i>T. turgidum subsp. durum</i>	D2X6D9	DVVLQQHNI AHASSQVLQQSTYQLLQQLCCQQLLQIPEQSR	-0.91
Alpha-gliadin storage protein	<i>T. spelta</i>	A0A1P8DT83	DVVLQQHNI AHGR	-2.38
Alpha-gliadin	<i>T. aestivum</i>	K7XE90	DVVLQQHSHIAHGSSQVLQQSTYQLVQQLCCQQLWQIPEQSR	-0.71
Alpha/beta-gliadin	<i>T. aestivum</i>	I0IT55	DVVLQQPNIAHASSK	-1.90
Gamma-gliadin	<i>T. aestivum</i>	I7KM78	EFLQCCNPEEK	1.27
High molecular weight glutenin subunit	<i>T. aestivum</i>	A0A060MZP1	EGEASEQLQCER	0.17
High molecular weight glutenin subunit	<i>T. dicoccoides</i>	A0A142ESP3	ELEACQQVVDQQLR	-0.07
High molecular weight glutenin subunit	<i>T. aestivum</i>	W6AX70	ELQESSLEACR	-0.92
Avenin-like a3	<i>T. aestivum</i>	P0CZ08	FGQPQQQGGQSFQGPQQQVPVEIMR	-1.28
Gamma-gliadin	<i>T. aestivum</i>	I7KM78	GFGQPQPQLGQEMPMQPQHLGQHSILPQQLAQYK	-1.55
High molecular weight glutenin subunit	<i>T. aestivum</i>	A0A0K0KDM6	GGSFYPGETTPPQQLQQR	1.72
High molecular weight glutenin subunit	<i>T. aestivum</i>	A0A060MZP1	GQQGQQSGQQQLGQQGQQGQQPGQK	-2.00
High molecular weight glutenin subunit	<i>T. aestivum</i>	V9TRL3	GQQGYPTSLQPPGQQGQQGYPTSLQHTGQR	-1.48
Alpha-gliadin	<i>T. aestivum</i>	A0A0E3Z589	GSVQPQLPQFEEIR	0.14
Low molecular weight glutenin	<i>T. aestivum subsp. tibeticum</i>	Q7Y074	GTFLQPHQIAR	-0.48
Gamma-gliadin	<i>T. aestivum</i>	I7KM78	IHDQERPQQSFLQQPLIQQPYPPEPQQPLFPQK	-2.91
High molecular weight glutenin subunit	<i>T. aestivum</i>	Q84U14	ILPTMCSVNVPLYR	1.47
High molecular weight glutenin subunit	<i>T. dicoccoides</i>	A0A142ESP3	LEGS DALSAR	-0.78
Low molecular weight glutenin	<i>T. aestivum subsp. tibeticum</i>	Q7Y074	LEVMTSIALR	3.19
LMW-GS	<i>T. aestivum</i>	H6VLQ4	LFLQQCSPVAMPQR	0.34
High molecular weight glutenin subunit	<i>T. aestivum</i>	W6AX70	LPWSTGLQMR	2.33
Alpha-gliadin storage protein	<i>T. spelta</i>	A0A1P8DT72	LQCQAIHNVVHAILHQQQK	-3.59
High-molecular-weight glutenin By8	<i>T. aestivum</i>	Q0Q5D8	LVAVSQVVR	-0.19
High molecular weight glutenin subunit	<i>T. dicoccoides</i>	A0A142ESP5	LVVDQQLAGR	3.23
Alpha-gliadin storage protein	<i>T. spelta</i>	A0A1P8DSZ1	LWQIPEQSR	0.11
Alpha-gliadin	<i>T. aestivum</i>	K7X0N8	MDVVLQQHNI VHGR	2.37
LMW-m glutenin subunit 17	<i>T. aestivum</i>	V9P7D3	METSCIPGLERPWQQQPLQK	-0.86
Type-b avenin-like protein	<i>T. aestivum</i>	A0A173DQZ7	MSLQALR	2.71

Avenin-like a1	<i>T. aestivum</i>	Q2A784	MVLQTLPLMCR	-3.50
Gamma-gliadin	<i>T. aestivum</i>	Q94G93	NFLQQC�NHVSLVSSLVSIILPR	0.09
Gamma-gliadin	<i>T. aestivum x T. elongatum</i>	B6DQD5	NILLQQCKPASLVSSLWSIIWPQSDCQVMR	1.72
Alpha-gliadin storage protein	<i>T. spelta</i>	A0A1P8DTD6	NLALQTLPR	2.03
High molecular weight glutenin subunit	<i>T. aestivum</i>	A0A060MZP1	QGQQGQSGQGQPR	0.33
High molecular weight glutenin subunit	<i>T. aestivum</i>	W6AX70	QGQQLEQGQPGQGQTR	-0.92
High molecular weight glutenin subunit	<i>T. aestivum</i>	V9TRL3	QGSYYPGQASPPGQGQPGK	1.07
High molecular weight glutenin subunit	<i>T. aestivum</i>	A0A0K0KDM6	QGYDSPYHVSAEQQAASPMVAK	0.10
Gamma-gliadin	<i>T. aestivum</i>	I7KM78	QLAHISEPSR	-1.61
Avenin-like b2	<i>T. aestivum</i>	P0CZ05	QLLEQMPCVAFLQQK	0.25
Low-molecular-weight glutenin subunit	<i>T. aestivum</i>	R4JFQ3	QLPQIPEQSR	-2.66
Type-b avenin-like protein	<i>T. aestivum</i>	A0A173DQZ7	QLSQIPEQFR	-2.16
Avenin-3	<i>T. urartu</i>	M8AQI5	QLVQIPEQTR	6.05
Gamma-gliadin	<i>T. aestivum</i>	H9BFB6	QPAQLEAIR	3.22
High molecular weight glutenin subunit	<i>T. aestivum</i>	A0A060MZP1	QPGYYSTSPQQLGQGQPR	0.00
Avenin-like a4	<i>T. aestivum</i>	D2KFH1	QCCQPLAQISEQAR	-1.95
Gamma-gliadin	<i>T. aestivum x T. elongatum</i>	B6DQD5	QCCQQLAR	-4.10
High molecular weight glutenin subunit	<i>T. aestivum</i>	A0A060MZP1	QQDQSGQGQPGQR	-0.88
HMW-glutenin By subunit	<i>T. turgidum</i>	Q6UJY7	QLGQGQTR	-1.82
High molecular weight glutenin subunit	<i>T. aestivum</i>	V9TRL3	QPPGQGQHPEQK	-1.72
High molecular weight glutenin subunit	<i>T. aestivum</i>	W6AX70	QPPGQGQIQGQQLGQR	-2.70
High molecular weight glutenin subunit	<i>T. aestivum</i>	A0A060MZP1	QPPGQGQQLR	-3.65
High molecular weight glutenin subunit	<i>T. aestivum</i>	W6AX70	QPPGQGQPEQGQPGQGQGYPTSPQPGQK	-1.75
Avenin-like a1	<i>T. aestivum</i>	Q2A784	QQGQSFQPPQVPVEIMR	2.10
Avenin-like a4	<i>T. aestivum</i>	D2KFH1	QQGQSFQPPQVQSFSPQHQPVEITR	2.19
Type-b avenin-like protein	<i>T. aestivum</i>	A0A173DQZ7	QQPPQQWQGMYPQPPAQHESIR	-1.24
Avenin-like b5	<i>T. aestivum</i>	A7XUQ5	QQPPQQWQGMYPQPPAQLESIR	2.00
High molecular weight glutenin subunit	<i>T. aestivum</i>	W6AX70	QVVDQQLAGR	-3.40
HMW glutenin subunit Ax2	<i>T. aestivum</i>	Q41553	QVVDQQLR	1.18

High-molecular-weight glutenin subunit	<i>T. aestivum</i>	A0A060MZP1	QYEQQVVVPPK	1.30
High-molecular-weight glutenin subunit	<i>T. aestivum</i>	W6AX70	QYEQTVVPPK	1.85
Avenin-like b5	<i>T. aestivum</i>	A7XUQ5	QYQQQQPGQR	-0.44
Gamma-gliadin	<i>T. aestivum</i>	B6UKP1	RPLFQLVQGQGIQPPQPAQLEVIR	-5.90
Gamma-gliadin	<i>T. aestivum</i>	B6UKP1	SDCQVMQQCCQQLAQIPQQLQCAAIHSVVHSIIMQQEQR	0.71
Gamma-gliadin	<i>T. aestivum</i>	U5U9Q4	SDCQVMQQCCQQLAQIPR	-1.64
Gamma-gliadin	<i>T. aestivum</i>	R9XU99	SFIQPSLQQQLNPCK	1.64
Gamma-gliadin	<i>T. aestivum x T. elongatum</i>	B6DQD5	SLVLQTLPSMCNVVYPPECSIMR	-1.60
LMW-GS	<i>T. aestivum</i>	H6VLQ4	SQMLQQCSCHVMQQCCQQLPQIPQQSR	-7.43
Low-molecular-weight glutenin subunit	<i>T. aestivum</i>	A0A0S2GJQ4	SQMLQQSICHVMQQCCQQLR	-2.90
Low-molecular-weight glutenin subunit	<i>T. aestivum</i>	M1GL80	SQMLQQSICHVTQQCCQQLR	4.41
LMW-GS P-31	<i>T. aestivum</i>	Q00M56	SQMLQQSSCHVMQQCCQQLLQIPQQSR	-1.62
Low-molecular-weight glutenin subunit	<i>T. aestivum</i>	R4JAP5	SQMLWQSSCHVMQQCCQQLPQIPEQSR	-1.32
Low-molecular-weight glutenin subunit	<i>T. aestivum</i>	R4JBK0	SQMLWQSSCHVMQQCCQQLPR	-3.03
Low-molecular-weight glutenin subunit	<i>T. aestivum</i>	R4JFQ3	SQMLWQSSCHVMQQCCR	0.42
Low molecular weight glutenin	<i>T. aestivum subsp. tibeticum</i>	Q7Y074	SQMWWQSSCHVMQQCCQQLPQIPEQSR	-1.60
Low molecular weight glutenin subunit	<i>T. aestivum</i>	K7XRG7	SQMWWQSSCHVMQQCCQQLQIPEQSR	-1.38
LMW-glutenin	<i>T. aestivum</i>	B5ANT3	SQMWWQSSCHVMQQCCQQLSQIPEQSR	-1.04
Alpha-gliadin storage protein	<i>T. spelta</i>	A0A1P8DT72	SQVLQQSTYQLLQELCCQHLWQIPEK	-0.15
Alpha/beta-gliadin	<i>T. aestivum</i>	A0A0K2QJA2	SQVLQQSTYQLLQELCCQHLWQIPEQSQCAIHNVVHAILR	-0.86
Alpha-gliadin	<i>T. aestivum</i>	K7X0N8	SQVLQQSTYQLLR	2.97
High molecular weight glutenin subunit	<i>T. aestivum</i>	V9TRL3	SVAVSQVAR	0.13
Low molecular weight glutenin subunit	<i>T. aestivum</i>	Q75ZV8	TLPMMCR	1.21
Low-molecular-weight glutenin GLU-B3	<i>T. turgidum</i>	A7XDG0	TLPTMCNVNPLYR	0.15
Low molecular weight glutenin subunit	<i>T. aestivum</i>	B2Y2S3	TLPTMCR	0.14
Low-molecular-weight glutenin subunit	<i>T. aestivum</i>	R4JAP5	TLPTMCSVNVPVYGTGGVPGVGTGR	-0.53
Gamma-gliadin	<i>T. aestivum</i>	I7KM78	TSQQNSCQLK	2.15
Low-molecular-weight glutenin subunit	<i>T. aestivum</i>	B2Y2S3	TTNVPFGVGTGVGSY	2.20
Gliadin/avenin-like seed protein	<i>T. aestivum</i>	D2KFH0	TVQSFFEQQLISCR	0.91

Low-molecular-weight glutenin subunit	<i>T. aestivum</i>	A0A0S2GJQ4	VFLQQQCIPVAMQR	-0.07
Low molecular weight glutenin	<i>T. aestivum subsp. tibeticum</i>	Q7Y074	VFLQQQCNPVAMPQR	2.02
LMW-m glutenin subunit 45	<i>T. aestivum</i>	V9P760	VFLQQQCSHVAMSQR	-1.54
Low-molecular-weight glutenin subunit	<i>T. aestivum</i>	A0A0S2GJR0	VFLQQQCSPVAIPQSLAR	3.11
LMW-m glutenin subunit 0154A5-M	<i>T. aestivum</i>	B2BZC7	VFLQQQCSPVAMPQHLLAR	-1.39
Low-molecular-weight glutenin subunit	<i>T. aestivum</i>	Q84U14	VFLQQQCSPVAMPQR	-0.68
Low-molecular-weight glutenin subunit	<i>T. aestivum</i>	Q75ZV8	VFLQQQCSPVAMPQSLAR	-2.49
Low-molecular-weight glutenin subunit	<i>T. aestivum</i>	R4JAP5	VFLQQQCSPVATPQILAR	2.02
Low-molecular-weight glutenin subunit	<i>T. aestivum</i>	Q75ZV8	VNVPLYR	-0.36
Alpha/beta-gliadin	<i>T. aestivum</i>	A0A0K2QJA2	VPVPQLQPK	4.19
Alpha-gliadin	<i>T. aestivum</i>	K7X119	VPVPQLQPQNPSQQQPQK	1.80
High molecular weight glutenin subunit	<i>T. aestivum</i>	W6AX70	VQQPATQLPIMCR	2.06
High molecular weight glutenin subunit	<i>T. aestivum</i>	A0A060MZP1	YYPTSPQQPGQEQQPR	-2.76
HMW glutenin subunit Ax2	<i>T. aestivum</i>	Q41553	YYPTSSQQPGLQQLAQGGQQQPER	-0.41
Avenin	<i>A. sativa</i>	P27919	ALPVDVLANAYR	-0.56
Avenin	<i>A. magna</i>	I4EP67	CPAIHSVVQAAILQK	-3.06
Type-b avenin-like protein	<i>A. magna</i>	A0A173DQZ7	CQAIHNVAEAIR	-3.98
Avenin	<i>A. sativa</i>	P27919	DFPITWPWK	-1.44
Avenin	<i>A. sativa</i>	P27919	ELGGFFGTQQGLIGK	7.24
Gliadin-like avenin	<i>A. sativa</i>	L0L6J0	QAICQVTR	4.63
Gliadin-like avenin	<i>A. sativa</i>	L0L6J0	QFLVQQCSPVAAPFLR	-0.25
Gliadin-like avenin	<i>A. sativa</i>	L0L6J0	QLAQIPEQLR	-2.45
Avenin	<i>A. ventricosa</i>	I4EP59	QLAQIPEQVR	-1.65
Avenin	<i>A. sativa</i>	Q2EPY2	QLEQIPEQLR	-0.97
Avenin protein	<i>A. murphyi</i>	G8ZCW5	LEQIPEQLR	-0.98
Avenin	<i>A. magna</i>	I4EP67	QQCCQLAQIPEQVR	-2.01
Avenin	<i>A. sativa</i>	Q09071	QSTCHVMR	-0.42
Avenin	<i>A. sativa</i>	P27919	NECCQLLGQMPSECR	-0.97
B hordein	<i>H. vulgare subsp. vulgare</i>	Q2XQF1	IVPLAIDTR	2.94

Gamma 3 hordein	<i>H. vulgare</i>	I6TEV2	QQCCQQLANINEQSR	1.56
B hordein	<i>H. vulgare subsp. vulgare</i>	Q2XQF1	TLPTMCSVNVPLYR	1.63
B3 hordein	<i>H. vulgare</i>	I6TRT5	VFLQQQCSPVAMSQR	2.20
B3 hordein	<i>H. vulgare subsp. vulgare</i>	Q3YAF9	VFLQQQCSPVR	5.38
Alpha-gliadin storage protein	<i>S. strictum subsp. africanum</i>	F4ZL28	SQILQENVCAVMR	4.97
High molecular weight glutenin subunit	<i>S. cereale x T. aestivum</i>	S5SCQ8	DVSPGCRPITVSPGTR	-1.73
High molecular weight glutenin subunit	<i>S. cereale x T. aestivum</i>	S5SCQ8	LEGSDALSTR	-2.33
High-molecular-weight glutenin subunit	<i>S. cereale x T. aestivum</i>	S5SCQ8	QYEQQPVVPSK	0.84

Supplementary Table 9. Gluten peptides detected in milk-based breakfast drinks (BM). The spectral dataset was searched against the Poaceae subset of the Uniprot database. Only peptides with $\geq 95\%$ confidence in this study abiding by trypsin digestion rules are reported. The mass error (ΔM) is presented in parts per million (ppm).

Protein name	Species	Accession	Peptide sequence	ΔM (ppm)
B3-hordein	<i>H. vulgare</i>	I6TRT5	AIVYSIVLR	6.27
D-Hordein	<i>H. vulgare</i>	Q84LE9	AQQLAAQLPAMCR	5.61
D-Hordein	<i>H. vulgare</i>	Q84LE9	DVSPECRPVALSQVVR	1.48
D-Hordein	<i>H. vulgare</i>	Q84LE9	ELQESSLEACR	2.87
B-hordein	<i>H. vulgare</i>	Q3YAF9	ILPFGIDTR	12.91
Gamma-3-hordein	<i>H. vulgare</i>	I6TEV2	QQCCQLANINEQSR	1.24
D-Hordein	<i>H. vulgare</i>	Q84LE9	QYEQQTEVPSK	-0.82
B3-hordein	<i>H. vulgare</i>	I6TRT5	SQMLQQSSCHVLQQCCQQLPQIPEQLR	-0.99
B3-hordein	<i>H. vulgare</i>	I6TRT5	TLPTMCSVNVPLYR	-0.37
B3-hordein	<i>H. vulgare</i>	I6TRT5	VFLQQQCSPVAMSQR	5.01
B-hordein	<i>H. vulgare</i>	Q3YAF9	VFLQQQCSPVR	9.78
Avenin	<i>A. sativa</i>	P27919	ALPVDVLANAYR	1.13
Avenin	<i>A. magna</i>	I4EP67	CPAIHSVVQAILQK	-0.36
Avenin	<i>A. sativa</i>	P27919	ELGGFFGTQQGLIGK	3.23
Avenin	<i>A. sativa</i>	P27919	NECCQLLGQMPSECR	10.51
Gliadin-like avenin	<i>A. sativa</i>	L0L4J7	QFLVQQCSPVAAVPFLR	0.69
Avenin	<i>A. magna</i>	I4EP67	QFLVQQCSPVAEVPFLR	2.00
Avenin	<i>A. magna</i>	I4EP67	QQCCQLLAQIPEQVR	10.49
Avenin	<i>A. magna</i>	I4EP67	SQILQQSSCQVMK	2.70
Gliadin-like avenin	<i>A. sativa</i>	L0L4J7	SQILQQSSCQVMR	2.58

Supplementary Table 10. Gluten peptides detected in powdered drinks (D). The spectral dataset was searched against the Poaceae subset of the Uniprot database. Only peptides with $\geq 95\%$ confidence in this study abiding by trypsin digestion rules are reported. The mass error (ΔM) is presented in parts per million (ppm).

Protein Names	Species	Accessions	Peptide Sequence	ΔM (ppm)
High molecular weight glutenin subunit 1Dy3	<i>T. aestivum</i>	A0A0K0KDM6	ACQQVMDQQLR	1.15
Low molecular weight glutenin subunit	<i>T. aestivum</i>	Q75ZV8	AIYSIVLQEQQQVR	0.34
High molecular weight glutenin subunit 1Dy3	<i>T. aestivum</i>	A0A0K0KDM6	AQQPATQLPTVCR	0.75
Alpha-gliadin	<i>T. aestivum</i>	A0A1K0JNF2	CQAIHNVAHAIIMHQQQQQQEYK	-2.18
Avenin-like a4	<i>T. aestivum</i>	D2KFH1	CQAVCSVAQVIMR	0.96
Avenin-like a3	<i>T. aestivum</i>	P0CZ08	CQAVCSVSQIIMR	1.02
Avenin-3	<i>T. urartu</i>	M8ANS4	DALLQCCSPVADMSFLR	2.19
High molecular weight glutenin subunit 1Dy3	<i>T. aestivum</i>	A0A0K0KDM6	DISPECHPVVSPVAGQYEQQIVVPPK	-1.89
High molecular weight glutenin subunit	<i>T. aestivum</i>	A0A060MZP1	DVSPQCQPVGGPVAR	0.83
Alpha-gliadin	<i>T. aestivum</i>	R9XUM8	DVVLQQHNIHAR	-0.73
High molecular weight glutenin subunit	<i>T. aestivum</i>	A0A060MZP1	EGEASEQLQCER	1.45
High molecular weight glutenin subunit 1Bx protein	<i>T. dicoccoides</i>	A0A142ESP3	ELEACQQVVDQQLR	5.13
High molecular weight glutenin subunit 1Dy3	<i>T. aestivum</i>	A0A0K0KDM6	GGSFYPGETTPPQQLQQR	5.34
Alpha-gliadin	<i>T. aestivum</i>	A0A0E3Z589	GSVQPQLPQFEEIR	-0.77
LMW-glutenin	<i>T. aestivum</i>	B5ANT3	ILPTMCSVNVPLYR	0.88
High molecular weight glutenin subunit 1Bx protein	<i>T. dicoccoides</i>	A0A142ESP3	LEGSDALSAR	2.94
High molecular weight glutenin subunit y	<i>T. aestivum</i>	Q94IJ6	LPWSTGLQMR	-1.72
Alpha-gliadin	<i>T. aestivum</i>	K7X0N8	MDVVLQQHNIHGR	0.73
Gamma-gliadin	<i>T. aestivum x Thinopyrum</i>	B6DQD1	NDCQVMQQCCQQLAQIPR	2.13
Alpha-gliadin	<i>T. aestivum</i>	A5JSA7	NLALQTLPR	0.00
High molecular weight glutenin subunit	<i>T. aestivum</i>	A0A060MZP1	QGQQGQSGGQQR	-0.49
High molecular weight glutenin subunit y	<i>T. aestivum</i>	Q94IJ6	QGQQLEQGQPGGQQR	0.37
LMW-m glutenin subunit 0877L13-M	<i>T. aestivum</i>	B2BZD2	QLPQIPEQSR	-0.10
Avenin-like a4	<i>T. aestivum</i>	D2KFH1	QQCCQPLAQISEQAR	7.46
High-molecular-weight glutenin subunit	<i>T. aestivum</i>	T2HRF3	QQDQQSGGQPGQR	0.95

High molecular weight glutenin subunit y	<i>T. aestivum</i>	Q94IJ6	QQPGQQQIGQQQLGQGR	0.31
High molecular weight glutenin subunit	<i>T. aestivum</i>	A0A060MZP1	QQPGQQQLR	2.14
Avenin-like b2	<i>T. aestivum</i>	P0CZ05	QQQPQQWQGMYPQQPAQHESIR	-1.40
High molecular weight glutenin subunit y	<i>T. aestivum</i>	Q94IJ6	QVVDQQLAGR	-0.88
High molecular weight glutenin subunit	<i>T. aestivum</i>	A0A060MZP1	QYEQVVVPPK	3.16
Gamma-gliadin	<i>T. aestivum</i>	B6UKP1	RPLFQLVQGQGIIQPQQPAQLEVIR	-1.28
Low-molecular-weight glutenin subunit	<i>T. urartu</i>	A0A089XB95	SQMLEQSICHVMQQQCCQLR	-7.12
LMW-s KS2	<i>T. aestivum</i>	Q68AN2	SQMLQQSSCHMMQQQCCQLPQIPQ	-6.57
Low molecular weight glutenin subunit	<i>T. aestivum</i>	Q75ZV8	SQMLQQSSCHVMQQQCCQLPQIPQQ	0.78
Low-molecular-weight glutenin subunit	<i>T. aestivum</i>	R4JBK0	SQMLWQSSCHVMQQQCCQLPR	2.24
Low-molecular-weight glutenin subunit	<i>T. aestivum</i>	Q1ZZT4	SQMWWQSSCHVMQQQCCQLPQIPE	1.45
LMW-glutenin	<i>T. aestivum</i>	B5ANT3	SQMWWQSSCHVMQQQCCQLSQIPE	-1.66
LMW-m glutenin subunit 0877L13-M	<i>T. aestivum</i>	B2BZD2	SQTLWQSSCHVMQQQCCR	1.26
Alpha-gliadin	<i>T. aestivum</i>	K7X0N8	SQVLQSTYQLLR	-1.41
Avenin-3	<i>T. urartu</i>	M8ANS4	SQVVQHSSCLVMWEQCCQLK	-2.87
High molecular weight glutenin subunit 1Dy protein	<i>T. aestivum</i>	V9TRL3	SVAVSQVAR	2.33
Low-molecular-weight glutenin subunit	<i>T. aestivum</i>	R4JDK6	TLPTMCNVNPLYR	0.95
Gliadin/avenin-like seed protein	<i>T. aestivum</i>	D2KFH0	TVQSFQQLISCR	2.52
LMW-GS	<i>T. aestivum</i>	R9XV91	VFLQQQCIPVAMQR	-2.49
Low-molecular-weight glutenin subunit	<i>T. aestivum</i>	Q1ZZT4	VFLQQCQSHVAMSQR	-0.40
Low-molecular-weight glutenin subunit Glu-D3	<i>T. aestivum</i>	X2JBS3	VFLQQQCSPVAMPQR	2.46
Low molecular weight glutenin subunit	<i>T. aestivum</i>	Q75ZV8	VFLQQQCSPVAMPQSLAR	-1.54
Low molecular weight protein	<i>T. aestivum</i>	C5IFV2	VFLQQQCSPVMPQR	0.94
Alpha-gliadin	<i>T. aestivum</i>	K7WV42	VPVPQLQPK	3.58
Alpha-gliadin	<i>T. aestivum</i>	A0A0E3Z7F3	VPVPQLQPQNPSQQQPQK	4.79
High molecular weight glutenin subunit y	<i>T. aestivum</i>	Q94IJ6	VQQPATQLPIMCR	2.67
High molecular weight glutenin subunit	<i>T. aestivum</i>	A0A060MZP1	YYPTSPQQPGQEQQPR	-0.77
B3 hordein	<i>H. vulgare</i>	I6TRT5	AIVYSIVLR	3.43
D-Hordein	<i>H. vulgare</i>	Q84LE9	AQQLAAQLPAMCR	0.84

D-Hordein	<i>H. vulgare</i>	Q84LE9	DVSPECRPVALSQVVR	-2.63
Gamma-hordein-3	<i>H. vulgare</i>	P80198	EFLQQLCTLDEK	-2.32
D-Hordein	<i>H. vulgare</i>	Q84LE9	ELQESSLEACR	-0.46
B hordein	<i>H. vulgare subsp. vulgare</i>	C7FB16	ILPFGIDTR	4.03
Gamma 1 hordein	<i>H. vulgare</i>	I6TMV6	ILQQSSCR	-2.83
B3 hordein	<i>H. vulgare</i>	I6TRT5	IVPLAIDTR	2.76
Gamma 3 hordein	<i>H. vulgare</i>	I6TEV2	QQCCQLANINEQSR	1.24
B-hordein	<i>H. vulgare subsp. vulgare</i>	I6R4A7	SQMLQQSSCHVLQQCCQQLPQIPEQF	-3.50
B hordein	<i>H. vulgare subsp. vulgare</i>	Q2XQF1	SQMLQQSSCHVLQQCCQQLPQIPEQIR	-2.18
B3 hordein	<i>H. vulgare</i>	I6TRT5	SQMLQQSSCHVLQQCCQQLPQIPEQL	0.71
D-Hordein	<i>H. vulgare</i>	Q84LE9	QYEQQTEVPSK	-11.70
B3 hordein	<i>H. vulgare</i>	I6TRT5	TLPTMCSVNVPLYR	-0.81
B3 hordein	<i>H. vulgare</i>	I6TRT5	VFLQQCSPVAMSQR	-0.96
B3-hordein	<i>H. chilense</i>	Q4G3S8	VFLQQCSPVPMPQR	-1.28
B-hordein	<i>H. vulgare subsp. vulgare</i>	I6R4A7	VFLQQCSPVR	1.70
Gamma 1 hordein	<i>H. vulgare</i>	I6TMV6	VMQQQCCLQLAQIPEQYK	-0.97
D-Hordein	<i>H. vulgare</i>	Q84LE9	VVDQQLVGQLPWSTGLQMCCQQLR	-2.86
High-molecular-weight glutenin subunit	<i>S. cereale x T. aestivu</i>	S5SCQ8	QYEQPVVPSK	2.16
High-molecular-weight glutenin subunit	<i>S. cereale x T. aestivu</i>	S5SCQ8	LEGS DALSTR	1.75
High-molecular-weight glutenin subunit	<i>S. cereale x T. aestivu</i>	S5SCQ8	DVSPGCRPITVSPGTR	-1.29
Avenin	<i>A. strigosa</i>	I4EP89	CPAIHSVVQAILQK	0.36
Avenin	<i>A. strigosa</i>	I4EP89	QFLVQQCSPVAEVPFLR	-1.94

Supplementary Table 11. Gluten peptides detected in the savoury spread (SS). The spectral dataset was searched against the Poaceae subset of the Uniprot database. Only peptides with $\geq 95\%$ confidence in this study abiding by trypsin digestion rules are reported. The mass error (ΔM) is presented in parts per million (ppm).

Protein name	Species	Accession	Peptide sequence	ΔM (ppm)
B-hordein	<i>H. vulgare</i>	I6R4A7	VFLQQQCSPVR	-1.36
B-hordein	<i>H. vulgare</i>	C7FB16	VFLQQQCSPVAMSQR	-2.41
B3-hordein	<i>H. vulgare</i>	I6TRT5	IVPLAIDTR	-3.26
B3-hordein	<i>H. vulgare</i>	I6TRT5	SQMLQQSSCHVLQQCCQQLPQIPEQLR	-0.20
B3-hordein	<i>H. vulgare</i>	I6TRT5	TLPTMCSVNVPLYR	2.66
B3-hordein	<i>H. vulgare</i>	I6TRT5	VFLQQQCSPVAMSQR	-2.41
D-Hordein	<i>H. vulgare</i>	Q84LE9	DVSPECRPVALSQVVR	-2.80
D-Hordein	<i>H. vulgare</i>	Q84LE9	ELQESSLEACR	-1.23
D-Hordein	<i>H. vulgare</i>	Q84LE9	QYEQQTEVPSK	-0.88
γ -3-hordein	<i>H. vulgare</i>	I6TEV2	EFLQCTLDEK	-0.47
γ -3-hordein	<i>H. vulgare</i>	I6TEV2	QQCCQQLANINEQSR	0.55
Avenin-like a4	<i>T. aestivum</i>	D2KFH1	CQAVCSVAQVIMR	-0.58
Avenin-like a4	<i>T. aestivum</i>	D2KFH1	QQCCQPLAQISEQAR	2.12

Supplementary Table 12. MRM transitions for the wheat, rye, barley and oat peptide markers assessed in food products.

Cereal	PM #	Type	Peptide Sequence	Uniprot Accession	RT (min)	Q1 m/z (z)	Q3 m/z (fragment, z)
Wheat	WPM1	α/β -gliadin	DVVLQQPNIHASSK	I0IT53	4.02	536.290 (3+)	924.499 (y9, 1+) 647.349 (y12, 2+) 696.883 (y13, 2+)
	WPM2	γ -gliadin	APFASIVADIGGQ	B6UKS0	7.12	623.326 (2+)	686.387 (b7, 1+) 757.424 (b8, 1+) 872.451 (b9, 1+)
	WPM3	γ -gliadin	SLVLGTLPTMCNVFVPPECSTTK	B6UKS0	8.01	851.093 (3+)	919.419 (y8, 1+) 1018.487 (y9, 1+) 1165.556 (y10, 1+)
	WPM4	γ -gliadin	APFASIVAGIGGQ	P08453	6.90	594.325 (2+)	686.387 (b7, 1+) 757.424 (b8, 1+) 814.446 (b9, 1+)
	WPM5	γ -gliadin	SLVLQTLPSMCNVYVPPECSIMR	P08453	7.87	898.777 (3+)	989.454 (y8, 1+) 1088.523 (y9, 1+) 1251.586 (y10, 1+)
	WPM6	γ -gliadin	SLVLQTLPTMCNVYVPPECSIIR	R9XV62	8.08	897.461 (3+)	971.498 (y8, 1+) 1070.566 (y9, 1+) 1233.63 (y10, 1+)
	WPM7	HMW-GS	DVSPGCRPITVSPGTR	Q45R38	3.72	566.958 (3+)	927.526 (y9, 1+) 699.37 (y13, 2+) 742.886 (y14, 2+)
	WPM8	HMW-GS	AQQPATQLPTVCR	P10387	3.98	735.379 (2+)	745.403 (y6, 1+) 974.509 (y8, 1+) 1142.599 (y10, 1+)
	WPM9	LMW-GS	VFLQQQCSPVAMPQR	P10386	5.11	894.947 (2+)	1045.492 (y9, 1+) 1173.550 (y10, 1+) 1301.609 (y11, 1+)
	WPM10	LMW-GS	VFLQQQCIPVAMQR	P10385	5.79	859.446 (2+)	974.491 (y8, 1+) 1102.550 (y9, 1+) 1230.608 (y10, 1+)

Cereal	Type	Peptide Sequence	Uniprot Accession	RT (min)	Q1 m/z (z)	Q3 m/z (fragment, z)	
Rye	RPM1	75K- γ -secalin	NVLLQQCSPVALVSSLR	E5KZQ2	7.51	942.522 (2+)	1188.641 (y11, 1+) 1316.699 (y12, 1+) 1444.758 (y13, 1+)
	RPM2	75K- γ -secalin	SLVLQNLPTMCNVYVPR	E5KZQ2	7.24	1002.524 (2+)	1236.586 (y10, 1+) 1349.670 (y11, 1+) 1463.713 (y12, 1+)
	RPM2*	75K- γ -secalin	SLVLQNLPTM*CNVYVPR	E5KZQ2	7.51	1010.521 (2+)	1252.581 (y10, 1+) 1365.665 (y11, 1+) 1479.708 (y12, 1+)
	RPM3	75K- γ -secalin	QCSTIQAPFASIVTGIVGH	E5KZQ2	8.33	993.509 (2+)	1197.663 (y12, 1+) 1268.700 (y13, 1+) 1396.758 (y14, 1+)
	RPM3*	75K- γ -secalin	*QCSTIQAPFASIVTGIVGH	E5KZQ2	9.13	984.996 (2+)	1197.663 (y12, 1+) 1268.700 (y13, 1+) 1396.758 (y14, 1+)
	RPM4	75K- γ -secalin	EGVQILLPQSHK	E5KZQ5	4.84	674.883 (2+)	596.315 (y5, 1+) 709.399 (y6, 1+) 822.483 (y7, 1+)
	RPM5	75K- γ -secalin	QHVGQGALAQVQGIIQPQLSQLEVVR	E5KZQ5	7.17	975.540 (3+)	1296.727 (y11, 1+) 1424.786 (y12, 1+) 1537.870 (y13, 1+)
	RPM5*	75K- γ -secalin	*QHVGQGALAQVQGIIQPQLSQLEVVR	E5KZQ5	7.77	1454.294 (2+)	1296.727 (y11, 1+) 1537.870 (y13, 1+) 1707.975 (y15, 1+)
	RPM6	75K- γ -secalin	NVLLQQCSPVALVSSVR	E5KZQ6	6.89	935.514 (2+)	1174.625 (y11, 1+) 1302.683 (y12, 1+) 1430.742 (y13, 1+)
	RPM7	75K- γ -secalin	QCSTIQAPFASIVTGIVGH	E5KZQ6	6.97	1008.496 (2+)	1227.637 (y12, 1+) 1298.674 (y13, 1+) 1426.733 (y14, 1+)
	RPM7*	75K- γ -secalin	*QCSTIQAPFASIVTGIVGH	E5KZQ6	7.66	999.983 (2+)	1227.637 (y12, 1+) 1298.674 (y13, 1+) 1426.733 (y14, 1+)

Cereal	Type	Peptide Sequence	Uniprot Accession	RT (min)	Q1 m/z (z)	Q3 m/z (fragment, z)	
Barley	BPM1	A	MVLQTLPSMCR	M0VEH1	5.50	668.323 (2+)	763.338 (y6, 1+)
							864.386 (y7, 1+)
							992.444 (y8, 1+)
	BPM2	B1	VFLQQQCSPVR	I6SJ22	4.17	681.343 (2+)	746.341 (y6, 1+)
							874.399 (y7, 1+)
							1002.458 (y8, 1+)
	BPM3	B3	VFLQQQCSPVAMSQR	I6SW30	4.81	889.927 (2+)	1035.450 (y9, 1+)
							1163.509 (y10, 1+)
							1291.567 (y11, 1+)
	BPM3*	B3	VFLQQQCSPVAM*SQR	I6SW30	4.19	897.927 (2+)	1051.450 (y9, 1+)
							1179.509 (y10, 1+)
							1307.567 (y11, 1+)
	BPM4	B3	IVPLAIDTR	I6SW30	5.26	499.306 (2+)	575.315 (y5, 1+)
							688.399 (y6, 1+)
							785.452 (y7, 1+)
	BPM5	B3	AIVYSIVLR	I6TRT5	6.13	517.324 (2+)	587.388 (y5, 1+)
							750.451 (y6, 1+)
							849.520 (y7, 1+)
	BPM6	B3	VFLQQQCSPVMPQR	Q4G3S8	5.40	907.956 (2+)	628.324 (y5, 1+)
							1071.507 (y9, 1+)
							1199.566 (y10, 1+)
	BPM6*	B3	VFLQQQCSPVPM*PQR	Q4G3S8	4.80	915.953 (2+)	644.319 (y5, 1+)
							1087.502 (y9, 1+)
							1215.561 (y10, 1+)
	BPM7	D	DVSPECRPVALSQVVR	I6TRS8	4.86	604.646 (3+)	642.854 (y11, 2+)
							755.901 (y13, 2+)
							799.417 (y14, 2+)
	BPM8	D	QYEQQTEVPSK	I6TRS8	2.32	668.823 (2+)	788.415 (y7, 1+)
							916.474 (y8, 1+)
							1045.517 (y9, 1+)
	BPM8*	D	*QYEQQTEVPSK	I6TRS8	3.17	660.323 (2+)	788.415 (y7, 1+)
							916.474 (y8, 1+)
							1045.517 (y9, 1+)

	BPM9	G3	EFLQCTLDEK	I6TEV2	5.40	762.374 (2+)	893.403 (y7, 1+)
							1021.462 (y8, 1+)
							1134.546 (y9, 1+)
	BPM10	G3	QQCCQLANINEQSR	I6TEV2	3.13	938.902 (2+)	1044.543 (y9, 1+)
							1172.602 (y10, 1+)
							1300.661 (y11, 1+)
	BPM10*	G3	*QQCCQLANINEQSR	I6TEV2	3.84	930.402 (2+)	1044.543 (y9, 1+)
							1172.602 (y10, 1+)
							1300.661 (y11, 1+)
Cereal		Type	Peptide Sequence	Uniprot Accession	RT (min)	Q1 m/z (z)	Q3 m/z (fragment, z)
Oats	OPM1	Avenin	QFLVQQCSPVAEVPFLR	I4EP65	7.73	673.356 (2+)	532.324 (y4, 1+)
							760.435 (y6, 1+)
							831.472 (y7, 1+)
	OPM1*	Avenin	*QFLVQQCSPVAEVPFLR	I4EP65	8.95	667.680 (2+)	532.324 (y4, 1+)
							760.435 (y6, 1+)
							831.472 (y7, 1+)
	OPM2	Avenin	SQILQQSSCQVMK	I4EP65	3.84	768.879 (2+)	1208.576 (y10, 1+)
							839.375 (y7, 1+)
							967.434 (y8, 1+)
	OPM2*	Avenin	SQILQQSSCQVM*K	I4EP65	3.10	776.877 (2+)	1224.571 (y10, 1+)
							855.370 (y7, 1+)
							983.428 (y8, 1+)
	OPM3	Avenin	QQCCQLAQIPEQVR	I4EP65	4.54	943.454 (2+)	628.341 (y5, 1+)
						629.305 (3+)	741.425 (y6, 1+)
						629.305 (3+)	869.484 (y7, 1+)
	OPM3*	Avenin	*QQCCQLAQIPEQVR	I4EP65	4.54	934.941 (2+)	628.341 (y5, 1+)
						623.630 (3+)	741.425 (y6, 1+)
						623.630 (3+)	869.484 (y7, 1+)
	OPM4	Avenin	CPAIHSVVQAILQK	I4EP65	6.34	559.655 (3+)	614.424 (y5, 1+)
							685.461 (y6, 1+)
							813.519 (y7, 1+)
	OPM5	Avenin	QLAQIPEQVR	I4EP88	4.26	591.336 (2+)	628.341 (y5, 1+)
							741.425 (y6, 1+)
							869.484 (y7, 1+)

OPM5*	Avenin	*QLAQIPEQVR	I4EP88	5.53	582.822 (2+)	628.341 (y5, 1+)
						741.425 (y6, 1+)
						869.484 (y7, 1+)
OPM6	Avenin	QFLVQQCSPVAVVPFLR	L0L5I0	8.24	994.543 (3+)	532.324 (y4, 1+)
					663.364 (4+)	532.324 (y4, 1+)
					663.364 (4+)	801.498 (y7, 1+)
OPM6*	Avenin	*QFLVQQCSPVAVVPFLR	L0L5I0	9.52	986.030 (3+)	532.324 (y4, 1+)
					657.689 (4+)	532.324 (y4, 1+)
					657.689 (4+)	801.498 (y7, 1+)
OPM7	Avenin	QFLVQQCSPVAAVPFLR	L0L6J0	7.82	980.527 (3+)	532.324 (y4, 1+)
					654.021 (4+)	532.324 (y4, 1+)
					654.021 (4+)	773.467 (y7, 1+)
OPM7*	Avenin	*QFLVQQCSPVAAVPFLR	L0L6J0	9.10	972.014 (3+)	532.324 (y4, 1+)
					648.345 (4+)	532.324 (y4, 1+)
					648.345 (4+)	773.467 (y7, 1+)
OPM8	Avenin	QAICQVTR	L0L6J0	2.34	488.256 (2+)	375.235 (y3, 1+)
						503.294 (y4, 1+)
						663.324 (y5, 1+)
OPM8*	Avenin	*QAICQVTR	L0L6J0	3.74	479.742 (2+)	375.235 (y3, 1+)
						503.294 (y4, 1+)
						663.324 (y5, 1+)
OPM9	Avenin	QLAQIPEQLR	L0L6J0	4.84	598.343 (2+)	642.357 (y5, 1+)
						755.441 (y6, 1+)
						883.500 (y7, 1+)
OPM9*	Avenin	*QLAQIPEQLR	L0L6J0	6.22	589.830 (2+)	642.357 (y5, 1+)
						755.441 (y6, 1+)
						883.500 (y7, 1+)
OPM10	Avenin	QAICQVAR	Q09114	2.39	473.250 (2+)	345.225 (y3, 1+)
						633.314 (y5, 1+)
						746.376 (y6, 1+)
OPM10*	Avenin	*QAICQVAR	Q09114	3.80	464.737 (2+)	345.225 (y3, 1+)
						633.314 (y5, 1+)
						746.376 (y6, 1+)

RT, retention time (min); Q1, precursor ion m/z ; z, charge, z; Q3, product ion m/z ; CE, collision energy (V). *Q refers to pyroglutamination of N-terminal Gln and M* refers to oxidation of Met.