

Supplementary Table 2
Alphabetical Listing of Proteins identified in HEx

Rank	Identity	Conserved domains	Code	Score	SP
409	1,4-alpha-glucan branching enzyme	Alpha-amylase; Alpha-amylase_C	isotig06050	43	NO
21	14-3-3 family member	14-3-3	isotig07975	1218	NO
201	2A1904 domain containing protein	2A1904	isotig00829	121	SP
427	3'-phosphoadenosine 5'-phosphosulfate synthase 2	APSK; ATPS	isotig04804	39	NO
204	4-aminobutyrate aminotransferase	OAT_like	isotig02515	119	NO
215	4-hydroxyphenylpyruvate dioxygenase	4HPPD multidomain	isotig03286	113	NO
33	AAA family ATPase	CDC48 multidomain	isotig05378	857	NO
196	Acetyl CoA acetyltransferase	Thiolase	isotig06180	127	NO
219	Acetyl CoA hydrolase-transferase	ACH1 multidomain	isotig02985	111	NO
432	Acetyl CoA transferase	cond_enzymes	isotig08630	38	NO
4	Actin	Actin	isotig01642	2585	NO
5	Actin	Actin	isotig01640	2251	NO
22	Actin	Actin	isotig08179	1212	NO
42	Actin	Actin	isotig08340	695	NO
178	Actin depolymerising factor	ADF	isotig07522	144	NO
324	Actin depolymerising factor	ADF	isotig17139	62	NO
239	Acyl CoA dehydrogenase family member	ACAD	isotig06933	95	NO
354	Acyl CoA dehydrogenase family member	ACAD	isotig08338	56	NO
90	Adenosylhomocysteinase	NADB_Rossmann	isotig08907	308	NO
339	Adenosylhomocysteinase (fragment)	NADB_Rossmann	sing01044	59	NO
428	Adenylate kinase	ADK (Double)	isotig05326	39	NO
278	ADP-ribosylation factor 1	Arf1_5_like	isotig07272	82	NO
274	Alanyl-tRNA synthetase family member	alas multidomain	isotig05593	82	NO
452	Alcohol dehydrogenase class III	MDR	isotig07935	34	NO
87	Aldehyde dehydrogenase family member	ALDH-SF	isotig04738	339	NO
138	Aldehyde dehydrogenase family member	ALDH_F6_MMDS	isotig06146	192	NO
300	Aldehyde dehydrogenase family member	ALDH_F7_AASADH	isotig05696	72	NO
387	Aldehyde dehydrogenase family member	ALDH-SF	isotig08696	48	NO
398	Aldehyde dehydrogenase family member	ALDH_F4-17_P5CDH	isotig05345	45	NO
13	Aldolase	FBP_aldolase_I_a	isotig04915	1611	NO
214	Aldolase	FBP_aldolase_I_a	isotig04899	114	NO

38	Alpha-tubulin	Alpha-tubulin	isotig06550	736	NO
59	Alpha-tubulin	Alpha-tubulin	isotig06165	512	NO
98	Alpha-tubulin	Alpha-tubulin	isotig06090	282	NO
310	Aminopeptidase	Peptidase_M17	sing15602	67	NO
119	ANChorage family member	SbcC multidomain	isotig05396	231	NO
422	Animal haem peroxidase family member(fragment)	An_peroxidase multidomain	sing01998	41	SP*
283	Annexin family member	Annexin (Triple)	isotig09212	79	NO
39	Arginine kinase	Arginine_kinase_like	isotig06694	736	NO
137	Arginine kinase	Arginine_kinase_like	isotig05009	193	NO
267	Arginine kinase	Arginine_kinase_like	isotig07053	85	SP
103	Aspartate aminotransferase	AAT_like	isotig05828	251	NO
192	Aspartate aminotransferase	AAT_like	isotig07486	130	NO
378	Aspartyl aminopeptidase	M20_dimer	isotig11977	50	NO
188	Aspartyl protease (necepsin)	pepsin_retropepsin_like	isotig06497	136	SP
80	Aspartyl protease inhibitor	API3	isotig05063	355	SP
305	Aspartyl-tRNA synthetase	PTZ00401 multidomain	isotig05959	70	NO
313	Astacin protease family member	ZnMc_astacin_like	isotig01791	67	SP*
389	Astacin protease family member	ZnMc_astacin_like	isotig01799	47	SP*
258	Astacin protease family member (fragment)	None	isotig01219	89	SP
122	ATP synthase alpha chain	F1_ATPase_alpha	isotig05818	215	NO
148	ATP synthase beta chain	F1-ATPase_beta	isotig04816	176	NO
298	ATP-citrate synthase	PLN02235; PLN02522 multidomains	isotig05344	75	NO
349	ATP-dependent RNA helicase	PTZ00424 multidomain	isotig05452	57	NO
24	Beta-tubulin	Beta-tubulin	isotig06421	1179	NO
60	C-type lectin	CLECT	isotig02337	499	SP
330	C-type lectin mannose receptor-like	CLECT (Double)	isotig00496	61	SP
346	Calmodulin	EFh (Double)	isotig07710	57	NO
107	Calponin domain-containing protein	CH	isotig06059	247	NO
45	Calreticulin	Calreticulin	Hpb-CRT	636	SP
113	Calumenin	PTZ—184 multidomain	isotig07880	240	NO
444	CAND1 protein	None	isotig11079	36	NO
338	Cathepsin Z	Peptidase_C1A_CathepsinX	isotig08307	59	SP
189	Cathepsin-B like cysteine protease	Peptidase_C1	isotig07017	136	SP
222	Chaperonin containing TCP-1 family member	TCP1_gamma	isotig05912	106	NO
237	Chaperonin containing TCP-1 family member	TCP1_theta	isotig01160	95	NO

276	Chaperonin containing TCP-1 family member	TCP1_zeta	isotig04788	82	NO
341	Chaperonin containing TCP-1 family member	TCP1_epsilon	isotig04754	58	NO
356	Chaperonin containing TCP-1 family member	TCP1_beta	isotig06009	55	NO
413	Chaperonin containing TCP-1 family member	TCP1_delta	isotig05820	42	NO
431	Chaperonin containing TCP-1 family member	chaperonin_like / TCP-1	isotig07985	39	NO
166	Chaperonin-10kDa / HSP10	cpn10	isotig13062	157	NO
251	Chaperonin-like domain containing protein	Chaperonin_like	isotig03049	91	NO
352	Chloride intracellular channel exc-4	GST_N_CLIC; GST_C_CLIC	isotig06967	56	NO
51	Chondroitin family member	None	isotig01493	571	SP
65	Chondroitin family member	CBM_14 (Triple)	isotig06559	433	SP*
247	Chondroitin family member	None	isotig08745	92	SP
297	Chondroitin family member	None	isotig04525	75	SP
160	Citrate synthase	cit_synth_euk multidomain	isotig06035	163	NO
381	Coatomer alpha subunit	COPI_C	isotig11474	49	NO
255	Coatomer beta subunit	Coatomer_beta_C	isotig05739	90	NO
265	Coatomer beta subunit (fragment)	Adaptin_N	sing06044	88	NO
369	Coatomer gamma subunit	Gamma-COP	isotig06416	53	NO
279	Cold shock DNA binding protein	CSP_CDS	isotig06639	81	NO
453	Cold shock DNA binding protein	CSP_CDS	isotig07660	34	NO
64	CSN-2 Conserved secreted protein, No SP	None	isotig04423	449	NO
71	CSN-5 Conserved secreted protein, No SP	None	isotig03664	393	NO
434	CSP-2 Conserved secreted protein with SP	None	isotig09016	37	SP
436	CSP-4 Conserved secreted protein with SP	None	isotig13290	37	SP
95	CXN-1 Conserved eXtract protein , No SP	None	isotig04424	288	NO
170	CXN-2 Conserved eXtract protein , No SP	None	isotig07739	150	NO
358	CXN-3 Conserved eXtract protein , No SP	None	isotig12324	55	NO
443	CXN-4 Conserved eXtract protein , No SP	None	isotig09523	36	NO
462	CXN-5 Conserved eXtract protein , No SP	None	isotig10187	33	NO
149	CXP-1 Conserved eXtract protein with SP	None	isotig09502	175	SP*
372	CXP-2 Conserved eXtract protein with SP	None	isotig15534	52	SP*
404	CXP-3 Conserved eXtract protein with SP	None	isotig11370	44	SP*
419	CXP-4 Conserved eXtract protein with SP	None	isotig05214	41	SP
466	CXP-5 Conserved eXtract protein with SP	None	isotig18098	33	SP
471	CXP-6 Conserved eXtract protein with SP	None	isotig09442	33	SP
75	Cyclophilin	Cyclophilin	isotig11124	364	NO

303	Cyclophilin	Cyclophilin	isotig09088	71	SP
43	Cystathionine beta-synthase	CBS_like (Double)	isotig05473	681	NO
316	Cystathionine gamma lyase	CGS_like	isotig08128	66	NO
304	Cystatin	CY	isotig02700	71	SP
385	Cysteinyl-tRNA-synthetase	PTZ00399 multidomain	isotig05483	48	NO
77	Cytochrome C	Cytochrome C	isotig11144	361	NO
76	Dehydrogenase	NADB_Rossmann	isotig03780	363	NO
102	Dehydrogenase	NADB_Rossmann	isotig03781	251	NO
184	Dehydrogenase	NADB_Rossmann	isotig02879	139	NO
288	Dehydrogenase	NADB_Rossmann	isotig08068	78	NO
332	Dehydrogenase	NADB_Rossmann; SCP2	isotig06089	60	NO
396	Deoxyribose-phosphate aldolase	DeoC	isotig08339	45	NO
294	Dimethylglycine dehydrogenase	GcvT multidomain	isotig03567	76	NO
159	Disorganised muscle protein 1	Ig (Triple)	isotig07447	164	NO
407	Disorganised muscle protein 1	Ig	isotig09618	43	NO
257	DJ-1 family protein (fragment)	None	isotig19944	89	NO
440	DnaJ protein	DnaJ AND DnAJ_C	isotig06729	36	NO
134	DUF148 domain containing protein	DUF148	isotig13830	194	SP
401	DUF866 domain-containing protein	DUF866	isotig10169	44	SP
458	Electron transfer flavoprotein beta-subunit	ETF_beta	isotig08800	34	NO
16	Enolase	Enolase	isotig06965	1476	NO
68	Enolase (fragment)	TIM_phosphate_binding	isotig18996	404	NO
231	ERM family member	B41 multidomain; ERM multidomain	isotig02815	100	NO
240	Eukaryotic translation elongation factor 1	Gst multidomain	isotig06752	95	NO
244	Eukaryotic translation elongation factor 1 beta	EF1B	isotig08621	94	NO
284	Eukaryotic translation elongation factor 1 beta / delta chain	EF1B	isotig08430	79	NO
20	Eukaryotic translation elongation factor 1A	EF-1_alpha multidomain	isotig06220	1223	NO
23	Eukaryotic translation elongation factor 1A	EF-1_alpha multidomain	isotig02523	1187	NO
28	Eukaryotic translation elongation factor 2	PTZ00416 multidomain	isotig05363	1015	NO
402	Eukaryotic translation initiation factor 2 subunit 3	PTZ00327 multidomain	isotig01314	44	NO
319	Eukaryotic translation initiation factor 3	eIF3_subunit	isotig08356	63	NO
66	Eukaryotic translation initiation factor 4A	PTZ00424 multidomain	isotig06491	432	NO
167	Eukaryotic translation initiation factor 5A	PTZ00328 multidomain	isotig07287	157	NO
58	Fatty acid and retinol binding protein	Gp-FAR-1	isotig11475	515	SP*
367	Fatty acid and retinol binding protein	Gp-FAR-1	isotig17927	53	SP

290	Fatty acid and retinol binding protein (fragment)	Gp-FAR-1	sing12372	78	SP*
342	Fatty acid oxidation complex alpha, mitochondrial	fa_ox_alph_mit multidomain	isotig05577	58	NO
183	Ferritin	Ferritin_like	isotig15727	140	NO
430	Filarial major allergen homolog	None	isotig14459	39	SP
142	FKBP-type peptidyl propyl cis-trans isomerase	FKBP_C (Double)	isotig06189	188	SP
391	FKBP-type peptidyl propyl cis-trans isomerase	FKBP_C	isotig02162	47	SP
96	Fructose-1,6-bisphosphatase	FBPase	isotig07764	284	NO
40	Fumarase	Fumarase_claSPII	isotig02533	717	NO
248	Fumarase (fragment)	Lyase_I_like	isotig19559	92	NO
307	Galectin	GLECT	isotig09713	69	NCS
403	Galectin	GLECT (Double)	isotig09082	44	NCS
175	GDI diSPociation inhibitor family protein	GDI	isotig06832	147	NO
447	GDP-4-keto-6-deoxymannose-3,5-epimerase-4-reductase	PLN02725 multidomain	isotig02599	35	NO
115	Glucosamine-fructose-6-phosphate aminotransferase	PTZ00394 multidomain	isotig02202	235	NO
130	Glucose-6-phosphate isomerase	pgi	isotig05614	199	NO
46	Glutamate dehydrogenase	GdhA multidomain	isotig06500	634	NO
331	Glutamine synthetase	Gln-synt_N; Gln-synt_C	isotig17753	60	NO
256	Glutamine synthetase family member	Gln-synt_C	isotig13122	90	NO
72	Glutathione S-transferase	PTZ00057 multidomain	isotig10292	389	NO
81	Glutathione S-transferase	PTZ00057 multidomain	EST_HPC00001	351	NO
89	Glutathione S-transferase	PTZ00057 multidomain	isotig11588	322	NO
92	Glutathione S-transferase	PTZ00057 multidomain	isotig04128	302	NO
101	Glutathione S-transferase	PTZ00057 multidomain	isotig10201	254	NO
308	Glutathione S-transferase	GST_C	isotig12717	68	NO
350	Glutathione S-transferase	PTZ00057 multidomain	isotig04252	56	NO
44	Glyceraldehyde 3-phosphate dehydrogenase	PTZ00023 multidomain	isotig03503	646	NO
153	Glycogen phosphorylase	Glycosyltransferase_GTB_type	isotig04774	168	NO
254	GTP-binding nuclear protein Ran	Ras_like_GTPase	isotig10157	90	NO
269	GTP-binding protein	PTZ00258 multidomain	isotig04927	85	NO
366	Heterogeneous nuclear ribonucleoprotein R	None	sing12856	53	NO
347	Hexokinase	Hexokinase_2	isotig05995	57	NO
364	Histidyl tRNA synthetase family member	HiSP multidomain	isotig05678	53	NO
442	hnRNP-R Q splicing factor family protein	hnRNP-R-Q multidomain	isotig10918	36	NO
325	Homogentisate 1,2-dioxygenase	HgmA	isotig06466	62	NO
252	HSP20	alpha-crystallin-Hsps_p23-like	isotig16722	91	NO

375	HSP20	metazoan_ACD	isotig01037	51	NO
437	HSP20	metazoan_ACD	isotig14718	37	NO
30	HSP60	GroEL	isotig06093	958	NO
25	HSP70	PTZ00009 multidomain	isotig07134	1167	NO
48	HSP70	PTZ00009 multidomain	isotig05458	585	NO
94	HSP70	PTZ00009 multidomain	isotig08182	296	NO
371	HSP70 family protein	PTZ00009 multidomain	isotig04766	52	NO
186	HSP70 (fragment)	PTZ00009 multidomain	isotig16062	137	SP*
370	HSP70 (fragment)	None	sing03746	53	NO
85	HSP70 (fragment)	PTZ00009 multidomain	isotig13132	345	NO
228	HSP70-interacting protein (fragment)	None	sing08010	102	NO
118	HSP70C (fragment)	PTZ00009 multidomain	sing16053	232	SP*
10	HSP90	PTZ00130 multidomain	isotig04714	1831	NO
34	HSP90	PTZ00130 multidomain	isotig05404	851	SP*
454	HSP90 co-chaperone CDC37	CDC37_C	isotig10342	34	NO
99	Isocitrate lyase-malate synthase	ICL_PEPM; malate_synt_A	isotig05351	282	NO
190	Independent phosphoglycerate mutase	Sulfatase	isotig01699	136	NO
127	Inorganic pyrophosphatase	pyrophosphatase	isotig07567	202	NO
179	Isocitrate dehydrogenase	Iso_dh	isotig07188	143	NO
374	Isocitrate dehydrogenase	Iso_dh	isotig06937	51	NO
361	KH domain-containing protein	KH-I	isotig06958	54	NO
376	KH domain-containing protein	KH (6 x)	isotig05665	50	NO
400	KH domain-containing protein	PCBP_like_KH; KH-I	isotig01475	45	NO
418	KH domain-containing protein	KH-I (Double)	isotig13339	41	NO
111	Kunitz inhibitor	KU	isotig18174	240	SP
139	Kunitz inhibitor	KU	isotig00585	190	SP
200	Kunitz inhibitor	KU	isotig00588	122	SP
264	Kunitz inhibitor	KU	isotig01217	88	SP
272	Kunitz inhibitor	KU	isotig16191	83	SP
273	Kunitz inhibitor	KU	isotig02721	82	SP
441	Kunitz inhibitor	KU	isotig02378	36	SP
121	Lactamase_B domain containing protein	Lactamase_B	isotig06155	226	NO
225	Lactate dehydrogenase family membe	LDH_1	isotig07324	103	NO
163	Lipid binding protein	None	isotig10607	158	SP
327	Lipid binding protein	None	isotig11150	61	NO

120	Lipocalin domain-containing protein	Lipocalin	isotig05316	229	SP
249	Lipocalin domain-containing protein	Lipocalin	isotig12919	92	NO
492	M20_dimer domain containing protein	M20_dimer	isotig06288	29	NO
326	M20_dimer domain containing protein (fragment)	M20_dimer	sing10214	61	NO
158	M20_dimer domain-containing protein	ArgE multidomain	isotig06447	164	NO
318	M20_dimer domain-containing protein	M20_dimer	isotig11202	63	NO
176	Macrophage migration inhibitory factor	MIF	isotig14084	145	NO
73	Macrophage migration inhibitory factor	MIF	isotig14093	383	NO
11	Major sperm protein	Motile_Sperm	isotig01565	1820	NO
52	Malate dehydrogenase	LDH_MDH_like	isotig05076	561	SP
165	Malate dehydrogenase	LDH_MDH_like	isotig13542	158	NO
169	Malate dehydrogenase (fragment)	LDH_MDH_like	isotig19584	151	NO
173	MFH-1 Ascaris MFP2b homologue	MFP2b	isotig07980	148	NO
187	MFH-2 Ascaris MFP2b homologue	MFP2b	isotig07283	137	NO
337	Mitochondrial glycoprotein	MAM33	isotig08637	59	NO
262	ML-domain containing protein	ML	isotig10098	88	SP
162	Motile sperm domain containing protein	Motile sperm	isotig16375	160	NO
213	Motile sperm domain containing protein	Motile sperm	isotig16097	114	NO
216	Motile sperm domain containing protein	Motile sperm	isotig17038	112	NO
250	Motile sperm domain containing protein	Motile_Sperm	isotig16212	92	NO
259	Motile sperm domain containing protein	Motile_Sperm	isotig13560	89	SP
268	Motile sperm domain containing protein	Motile_Sperm	isotig16934	85	NO
2	Myoglobin	globin	isotig11742	3366	SP
3	Myoglobin	globin	isotig13336	3098	SP*
6	Myoglobin	globin	isotig04274	2208	SP
7	Myoglobin	globin	isotig11356	2113	SP*
8	Myoglobin	globin	isotig05169	1977	SP
9	Myoglobin	globin	isotig04273	1833	SP
14	Myoglobin	globin	isotig11666	1607	SP
41	Myoglobin	globin	isotig12632	698	SP*
54	Myoglobin	globin	isotig13442	531	SP*
57	Myoglobin (fragment)	None	isotig19571	521	SP*
229	Myoglobin (fragment)	globin	isotig19359	101	SP*
328	Myosin heavy chain	Motor	isotig12780	61	NO
97	NAC domain-containing protein	NAC	isotig10507	283	NO

172	NAC domain-containing protein	NAC	isotig09958	149	NO
380	NAD-dependent malic enzyme mitochondrial precursor	PTZ00317 multidomain	isotig05529	50	NO
450	NAD-dependent malic enzyme mitochondrial precursor	NADB_Rossmann; malic	isotig07056	35	NO
185	NADH-dependent fumarate reductase	flavo_cyto_c	isotig02473	138	SP
15	Nematode polyprotein allergen NPA-1	None	isotig02438	1562	SP
116	Nitrilase	Nitrilase	isotig09180	232	NO
345	Nitrilase	Nitrilase_CH	isotig10241	58	NO
357	NTF2 domain containing protein	NTF2_like	isotig13143	55	NO
517	NTF2 domain-containing protein	NTF2_like	isotig11764	27	NO
69	Nucleoside diphosphate kinase	NDPk_I	isotig05236	401	SP
50	Nucleosome assembly protein	NAP multidomain	isotig04959	573	NO
433	NUDC protein	p23_mNUDC_like	isotig06887	38	NO
424	NSN-1 Novel Secreted protein, No SP	None	isotig18405	40	NO
156	NSP-30 Novel secreted protein with SP	None	isotig12701	166	SP
143	NSP-39 Novel secreted protein with SP	None	isotig16333	187	SP
446	NSP-59 Novel secreted protein with SP	None	isotig13319	35	SP
195	NXN-1 Novel eXtract protein, No SP	None	isotig00483	128	NO
438	NXN-2 Novel eXtract protein, No SP	None	isotig05106	37	NO
280	NXN-3 Novel eXtract protein, No SP	None	isotig16236	80	SP
282	NXN-4 Novel eXtract protein, No SP	None	isotig18432	80	SP
373	NXN-5 Novel eXtract protein, No SP	None	isotig04670	51	SP
88	Oxidoreductase	Aldo_ket_red	isotig08193	323	NO
203	Oxidoreductase	Aldo_ket_red	isotig08526	119	NO
212	Oxidoreductase	Aldo_ket_red	isotig10598	114	NO
182	PA2G4 domain containing protein	PTZ00053 multidomain	isotig05953	140	NO
108	PAZ / PIWI domain containing protein	PAZ_argonaute_like; PIWI-like	isotig06344	246	NO
281	PB1 domain containing protein	PB1	isotig11115	80	NO
61	Phosphatidylethanolamine-binding protein	PEBP_euk	isotig05126	469	SP
220	Phosphatidylethanolamine-binding protein	PEPB_euk	isotig15978	108	NO
12	Phosphoenolpyruvate carboxykinase	PEPCK_GTP	isotig05532	1713	NO
129	Phosphoenolpyruvate carboxykinase	PEPCK_HprK	isotig12895	199	NO
302	Phosphofructokinase	PFK	isotig05374	72	NO
426	Phosphoglucomutase 2	PGM2	isotig06281	40	NO
53	Phosphoglycerate_kinase	Phosphoglycerate_kinase	isotig06484	533	SP*
226	Phytanoyl-CoA dioxygenase domain protein	PhyH	isotig08004	103	NO

155	Piwi domain-containing protein	Piwi-like	isotig04875	167	NO
384	PKc_like domain-containing protein	PKc_like	isotig07398	48	NO
392	PRK14867 domain-containing protein	PRK14867 multidomain	isotig17933	47	SP*
329	Profilin	PROF	isotig14715	61	NO
275	Prolidase	Prolidase	isotig06293	82	NO
390	Proliferating cell nuclear antigen	PCNA	isotig05148	47	NO
340	Proline hydroxylase family member	2OG-Fell_Oxy	isotig06025	59	SP
287	Prolyl tRNA Synthetase family member	pros_fam_I multidomain	isotig02410	79	NO
224	Propionyl Coenzyme A carboxylase	ACCA	isotig05662	104	NO
315	Propionyl-CoA carboxylase alpha chain	CPSase_L_D2	isotig17907	66	NO
246	Protein arginine N-methyltransferase	AdoMet_Mtases	isotig06594	92	NO
17	Protein disulfide isomerase	ER_PDI_fam multidomain	isotig05787	1465	SP
31	Protein disulfide isomerase	ER_PDI_fam multidomain	isotig01916	902	SP*
126	Protein disulfide isomerase	Thioredoxin_like (Triple)	isotig06295	204	SP*
168	Protein disulfide isomerase	PDI_a_P5 AND P5_C (Double)	isotig06159	154	SP
236	Protein phosphatase PP2A regulatory subunit	Peptidase_M3_like	isotig07555	96	NO
241	Proteosome beta subunit family member	proteosome_beta_type_6	isotig11170	95	NO
348	Proteosome beta subunit family member	proteosome_beta_type_4	isotig09724	57	NO
360	Proteosome regulatory particle ATPase-like	AAA	isotig04911	55	NO
457	Proteosome Rpn13 ubiquitin receptor	Proteasom_Rpn13	isotig06315	34	NO
393	Proteosome subunit alpha type 3	proteosome_alpha_type_3	isotig08454	46	NO
291	Proteosome subunit alpha type 4	proteosome_alpha_type_4	isotig08076	78	NO
301	Proteosome subunit alpha type 7-1	proteosome_alpha_type_7	isotig08062	72	NO
421	Proteosome subunit beta type 5	proteosome_beta_type_5	isotig08215	41	NO
124	PurA ssDNA and RNA-binding protein	PurA multidomain	isotig07421	210	NO
321	Pyruvate dehydrogenase complex E1 subunit beta	PTZ00812 multidomain	isotig07089	63	NO
292	Pyruvate kinase	Pyruvate_kinase	isotig05769	77	NO
333	Pyruvate kinase	Pyruvate_kinase	isotig03339	60	NO
351	Rab family protein	Ras_like_GTPase	isotig07100	56	NO
154	Rab GDP dissociation inhibitor	GDI	isotig06129	168	NO
79	RACK family member	WD40	isotig07754	358	NO
205	Receptor mediated endocytosis protein (fragment)	Ras_like_GTPase	sing03091	119	NO
67	Retinol binding protein	Gp-FAR-1	Hpb-RBP	419	SP
311	Ribonucleotide reductase family member	RNRR2	isotig02547	67	NO
104	Ribosomal protein 40S S2 / laminin receptor	RSP2	isotig02864	250	NO

133	Ribosomal protein 40S S2	Ribosomal_S5; Ribosomal_S5_C	isotig08698	195	NO
86	Ribosomal protein 40S S3	PTZ00084 multidomain	isotig09688	345	NO
235	Ribosomal protein 40S S3a	Ribosomal_S3Ae	isotig03920	97	NO
63	Ribosomal protein 40S S4	Ribosomal_S4e	isotig05116	463	NO
112	Ribosomal protein 40S S5	Ribosomal_S7	isotig05158	240	NO
312	Ribosomal protein 40S S6	Ribosomal_S6e	isotig09051	67	NO
299	Ribosomal protein 40S S7	Ribosomal_S7e	isotig13724	74	NO
36	Ribosomal protein 40S S8	Ribosomal_S8e	isotig10482	785	NO
171	Ribosomal protein 40S S9	Ribosomal_S4	isotig13051	149	NO
253	Ribosomal protein 40S S10	S10_plectin	isotig17185	91	NO
344	Ribosomal protein 40S S11	Ribosomal_S17	isotig12166	58	NO
260	Ribosomal protein 40S S12	Ribosomal_L7Ae	isotig05275	89	NO
199	Ribosomal protein 40S S13	Ribosomal_S13_N; S15p_S13e	isotig15873	125	NO
152	Ribosomal protein 40S S14	Ribosomal_S11	isotig14208	169	NO
145	Ribosomal protein 40S S15	Ribosomal_S19	isotig13079	183	NO
161	Ribosomal protein 40S S15a	Ribosomal_S8	isotig14649	162	NO
317	Ribosomal protein 40S S16	Ribosomal_S9	isotig16303	65	NO
198	Ribosomal protein 40S S17	Ribosomal_S17e	isotig12142	126	NO
140	Ribosomal protein 40S S18	Ribosomal_S13	isotig12489	189	NO
230	Ribosomal protein 40S S19S	Ribosomal_S19e	isotig15314	100	NO
408	Ribosomal protein 40S S20	Ribosomal_S10	isotig10563	43	NO
234	Ribosomal protein 40S S21	Ribosomal_S21e	isotig18026	97	NO
309	Ribosomal protein 40S S23	Ribosomal_S23	isotig12594	68	NO
277	Ribosomal protein 40S S24	Ribosomal_S24e	isotig13723	82	NO
164	Ribosomal protein 40S S25	Ribosomal_S25	isotig14399	158	NO
106	Ribosomal protein 40S S27a / Ubiquitin	Ribosomal_S27; UBL	isotig12183	248	SP
286	Ribosomal protein 40S S28	S1_S28E	isotig13459	79	NO
144	Ribosomal protein 60S L3	Ribosomal_L3	isotig07102	183	NO
109	Ribosomal protein 60S L4	Ribosomal_L4	isotig05058	245	NO
174	Ribosomal protein 60S L5	Ribosomal_L18_L5e	isotig08825	148	NO
55	Ribosomal protein 60S L6	Ribosomal_L6e	isotig11208	524	NO
141	Ribosomal protein 60S L7	Ribosomal_L7_archaeal_euk	isotig05120	188	NO
70	Ribosomal protein 60S L7a	Ribosomal_L7Ae	isotig09109	397	NO
114	Ribosomal protein 60S L8	Ribosomal_L2; Ribosomal_L2_C	isotig09853	236	NO
206	Ribosomal protein 60S L9	Ribosomal_L6 (Double)	isotig11630	118	NO

83	Ribosomal protein 60S L10	Ribosomal_L16_L10e	isotig12696	346	NO
147	Ribosomal protein 60S L10a	Ribosomal_L1	isotig10216	177	NO
197	Ribosomal protein 60S L11	Ribosomal_L5; Ribosomal_L5_C	isotig05190	127	NO
100	Ribosomal protein 60S L12	Ribosomal_L11	isotig11621	278	NO
211	Ribosomal protein 60S L13	Ribosomal_L13e	isotig10533	115	NO
336	Ribosomal protein 60S L13a	Ribosomal_L13	isotig05197	59	NO
78	Ribosomal protein 60S L14	Ribosomal_L14e	isotig14543	359	NO
271	Ribosomal protein 60S L15	Ribosomal_L15e	isotig13451	83	NO
117	Ribosomal protein 60S L17	Ribosomal_L22	isotig12065	232	NO
62	Ribosomal protein 60S L18	Ribosomal_L18e	isotig10630	465	NO
221	Ribosomal protein 60S L18a	Ribosomal_L18ae	isotig10555	107	NO
135	Ribosomal protein 60S L19	Ribosomal_L19e	isotig03672	193	NO
207	Ribosomal protein 60S L21	Ribosomal_L21e	isotig19197	117	NO
180	Ribosomal protein 60S L22	Ribosomal_L22e	isotig12702	142	NO
132	Ribosomal protein 60S L23	Ribosomal_L14	isotig13719	198	NO
105	Ribosomal protein 60S L23a	Ribosomal_L23; Ribosomal_L23eN	isotig13023	249	NO
379	Ribosomal protein 60S L26	KOW	isotig14151	50	NO
266	Ribosomal protein 60S L27s	Ribosomal_L27e	isotig05318	86	NO
125	Ribosomal protein 60S L30	Ribosomal_L7Ae	isotig16239	205	NO
208	Ribosomal protein 60S L31	Ribosomal_L31e	isotig05290	116	NO
296	Ribosomal protein 60S L32	Ribosomal_L32_L32e	isotig05285	76	NO
429	Ribosomal protein 60S L34	Ribosomal_L34e	isotig16517	39	NO
181	Ribosomal protein 60S L35	Ribosomal_L29_HIP; ALDH-SF	isotig12010	141	NO
191	Ribosomal protein 60S L36	Ribosomal_L36e	isotig16834	131	NO
209	Ribosomal protein 60S L40 / Ubiquitin	Ribosomal_L40e; Ubiquitin	isotig13199	116	NO
243	Ribosomal protein 60S L44	Ribosomal_L44	isotig17801	94	NO
29	Ribosomal protein 60S P0	Ribosomal_P0_L10e	isotig01358	965	NO
151	Ribosomal protein 60S P1	Ribosomal_P1	EST Hp_ADY_001B04	170	NO
233	RNA helicase	PTZ00424 multidomain	isotig06568	98	NO
322	RRM / La domain containing protein	RRM; La	isotig06631	63	NO
217	RRM domain-containing protein	RRM	isotig16405	112	NO
223	RRM domain-containing protein	RRM (Triple)	isotig08546	105	NO
353	RRM domain containing protein	RRM	isotig11375	56	NO
415	Sec23 protein	SEC23 multidomain	isotig08978	42	NO
435	Sec23/Sec24 protein	PTZ00395 multidomain	isotig04740	37	NO

423	Serine hydroxymethyltransferase	AAT_I	isotig11836	40	NO
359	Serine/threonine protein phosphatase PP1	MPP_PP1_PPKL	isotig04854	55	NO
35	Serpin	Serpin	isotig02225	788	NFL
355	Seryl tRNA synthetase family member	SerRS_core	isotig02126	56	NO
343	Shwachman-Bodian-Diamond syndrome protein	SBDS; SBDS_C	isotig08194	58	NO
439	Single strand binding protein	SSB / RPA_2b-aaRSs_OBF_like	isotig19033	37	NO
238	Staphylococcal nuclease family member	SNC	isotig19144	95	NO
285	Staphylococcal nuclease family member	SNC	isotig05969	79	NO
394	Succinate dehydrogenase flavoprotein subunit	PTZ00139 multidomain	isotig02837	46	NO
386	Superoxide dismutase	Cu-Zn_Superoxide_Dismutase	isotig09104	48	NO
245	Thioredoxin family protein	Thioredoxin_like	isotig15326	93	NO
411	Thioredoxin family protein	TRX_family; PITH	isotig09330	43	NO
414	Thioredoxin family protein	Thioredoxin_like	isotig02471	42	SP*
37	Thioredoxin peroxidase	Thioredoxin_like	isotig05188	771	NO
150	Thioredoxin peroxidase	Thioredoxin_like	isotig09347	172	NO
363	Thiosulfate sulfurtransferase	TST_Repeat_1; TST_Repeat_2	isotig07042	53	NO
412	TIGR02231 domain containing protein	TIGR02231 multidomain	isotig00944	42	NO
110	TIL domain-containing protein	TIL	EST_HPC00030	245	SP
416	TIL domain-containing protein	TIL	isotig00779	42	SP*
136	TPR domain-containing protein	TPR	isotig07234	193	NO
323	Transaldolase	Transaldolase_Ta1AB	isotig07176	62	NO
84	Transketolase	PTZ00182 multidomain	isotig02953	346	NO
131	Triose phosphate isomerase	TIM_phosphate_binding	isotig05016	198	NO
49	Tropomyosin	Tropomyosin multidomain; DUF106	Hpb-TRP	585	NO
406	Troponin family protein	Troponin	isotig09533	43	NO
306	TROVE domain protein	TROVE	sing12575	70	NO
177	TTR-1	DUF290	isotig04612	144	SP
261	TTR-5 Transthyretin related	DUF290	isotig13207	88	SP
123	TTR-6 Transthyretin related	DUF290	isotig05212	210	SP
270	TTR-10 Transthyretin related	DUF290	isotig11792	84	SP
242	TTR-11 Transthyretin related	DUF290	isotig04258	95	SP
91	TTR-13 Transthyretin related	DUF290	isotig13284	304	SP
210	TTR-14 Transthyretin related	DUF290	isotig14796	115	SP*
289	TTR-15 Transthyretin related	DUF290	isotig15268	78	SP*
314	TTR-16 Transthyretin related	DUF290	isotig14690	66	SP

335	TTR-17 Transthyretin related	DUF290	isotig15111	60	SP
420	Tyrosyl-tRNA-synthetase	nt_trans	isotig06363	41	NO
202	Ubiquitin C-terminal hydrolase	Peptidase_C12	isotig13387	120	NO
399	Ubiquitin C-terminal hydrolase	Peptidase_C12	isotig01648	45	NO
425	UDP-galactose 4-epimerase family member	NADB_Rossmann	isotig04925	40	NO
218	UDP-glucose pyrophosphorylase	UGPase_euk	isotig02441	111	NO
295	Unidentified vitellogenin-linked transcript	None	isotig10045	76	NO
93	Ureidopropionase	Nitrilase	isotig08079	300	NO
263	Vacuolar H ATPase protein 8	ATP-synt_B	isotig08386	88	NO
293	VAL-1.1	SCP (Double)	isotig06320	77	SP
388	VAL-1.3	SCP (Double)	isotig06456	47	SS
227	VAL-2.1/2.2/2.3	SCP (Double)	isotig03106	103	SP
82	VAL-3.1	SCP (Double)	isotig05790	349	SP
365	VAL-4	SCP (Single)	isotig10387	53	SP
194	VAL-7.1	SCP (Single)	isotig01524	129	SP
232	VAL-7.5	SCP (Single)	isotig01526	100	SP
193	VAL-12	SCP (Double)	isotig06637	130	SP
128	VAL-15	SCP (Double)	isotig02149	200	SP
382	VAL-26	SCP (Single)	isotig09445	49	SP
377	Valyl-tRNA synthetase	valS multidomain	isotig05028	50	NO
417	VHS domain-containing protein	VHS_ENTH_ANTH; GAT	isotig06483	41	NO
1	Vitellogenin	DUF1943; Vitellogenin_N	contig00471	3369	SP
18	Vitellogenin	DUF1943	contig00207	1301	SP*
19	Vitellogenin	VWD	contig00212	1295	SP*
26	Vitellogenin	LPD_N	contig00203	1040	SP*
27	Vitellogenin	VWD	Hp_ADY_001C04	1025	SP*
32	Vitellogenin	Vitellogenin_N	contig00199	884	SP*
56	Vitellogenin	VWD	Hp_ADY_001G11	523	SP*
74	Vitellogenin	None	contig00211	372	SP*
146	Vitellogenin (fragment)	Vitellogenin_N	sing00711	179	SP*