

Supplementary table 1: List of iRT peptides from Biognosys

List of iRT peptides in elution order: 1	LGGNEQVTR
2	GAGSSEPVTGLDAK
3	VEATFGVDESNK
4	YILAGVENSK
5	TPVISGGPYEYR
6	TPVITGAPYEYR
7	DGLDAASYAPVR
8	ADVTPADFSEWSK
9	GTFIIDPGGVIR
10	GTFIIDPAAVIR
11	LFLQFGAQGSPFLK

Supplementary table 2: List of bovine plasma proteins in spectral library.

1	gi 157743038	A2M protein [Bos taurus]
2	gi 73587039	Actin, alpha, cardiac muscle 1 [Bos taurus]
3	gi 555987199	actin, cytoplasmic 2 isoform X1 [Bos mutus]
4	gi 942083545	actin, cytoplasmic 2 isoform X2 [Bos mutus]
5	gi 982910899	adiponectin isoform X2 [Bos taurus]
6	gi 982928613	afamin isoform X1 [Bos taurus]
7	gi 982928616	afamin isoform X2 [Bos taurus]
8	gi 154425704	ALB protein [Bos taurus]
9	gi 74267962	ALB protein [Bos taurus]
10	gi 229552	albumin
11	gi 162648	albumin [Bos taurus]
12	gi 74268094	Alpha-1 acid glycoprotein [Bos taurus]
13	gi 555978416	alpha-1-acid glycoprotein 1 [Bos mutus]
14	gi 86823979	Alpha-1-B glycoprotein [Bos taurus]
15	gi 741962304	alpha-2-antiplasmin isoform X1 [Bos taurus]
16	gi 154426172	Alpha-2-HS-glycoprotein [Bos taurus]
17	gi 555998216	alpha-2-HS-glycoprotein isoform X1 [Bos mutus]
18	gi 942100315	alpha-2-HS-glycoprotein isoform X2 [Bos mutus]
19	gi 942061714	alpha-2-macroglobulin isoform X1 [Bos mutus]
20	gi 528950741	alpha-2-macroglobulin isoform X1 [Bos taurus]
21	gi 982982356	alpha-2-macroglobulin isoform X2 [Bos taurus]
22	gi 408689603	alpha-2-macroglobulin variant 20 [Bos taurus]
23	gi 408689609	alpha-2-macroglobulin variant 23 [Bos taurus]
24	gi 440903847	Alpha-2-macroglobulin, partial [Bos mutus]
25	gi 942061734	alpha-2-macroglobulin-like [Bos mutus]
26	gi 87196501	alpha-enolase [Bos taurus]
27	gi 74354219	AMBP protein [Bos taurus]
28	gi 75773673	Amylase, alpha 2A (pancreatic) [Bos taurus]
29	gi 74354323	Angiotensinogen (serpin peptidase inhibitor, clade A, member 8) [Bos taurus]
30	gi 555989638	angiotensinogen [Bos mutus]
31	gi 508830	anti-idiotypic Ig heavy chain V region, partial [Bos taurus]
32	gi 508840	anti-idiotypic Ig lambda chain V region, partial [Bos taurus]
33	gi 508834	anti-respiratory syncytial virus Ig heavy chain V region, partial [Bos taurus]
34	gi 508836	anti-respiratory syncytial virus Ig lambda chain V region, partial [Bos taurus]
35	gi 432627	anti-testosterone antibody [Bos taurus]
36	gi 440	anti-testosterone antibody [Bos taurus]
37	gi 555957525	antithrombin-III [Bos mutus]
38	gi 77736341	antithrombin-III precursor [Bos taurus]
39	gi 74268269	Apolipoprotein A-I [Bos taurus]
40	gi 162678	apolipoprotein A-I precursor [Bos taurus]
41	gi 245563	apolipoprotein A-I, apoA-1 [Bos=cattle, Friesian-Holstein male calves aged 2-4 weeks, Peptide, 247 aa]
42	gi 440905769	Apolipoprotein A-I, partial [Bos mutus]
43	gi 555995048	apolipoprotein A-II [Bos mutus]
44	gi 296489849	apolipoprotein A-II precursor [Bos taurus]

45	gi 942055563	apolipoprotein A-IV [Bos mutus]
46	gi 741951254	apolipoprotein A-IV isoform X1 [Bos taurus]
47	gi 555967548	apolipoprotein B-100 [Bos mutus]
48	gi 982991065	apolipoprotein B-100 isoform X3 [Bos taurus]
49	gi 156139070	apolipoprotein C-II precursor [Bos taurus]
50	gi 942055567	apolipoprotein C-III [Bos mutus]
51	gi 942055573	apolipoprotein C-III isoform X2 [Bos mutus]
52	gi 296480249	apolipoprotein C-III precursor [Bos taurus]
53	gi 741960139	apolipoprotein C-IV isoform X1 [Bos taurus]
54	gi 555971779	apolipoprotein D [Bos mutus]
55	gi 81674721	Apolipoprotein D [Bos taurus]
56	gi 942068223	apolipoprotein E isoform X3 [Bos mutus]
57	gi 942068236	apolipoprotein E isoform X4 [Bos mutus]
58	gi 982925893	apolipoprotein F isoform X2 [Bos taurus]
59	gi 109939993	Apolipoprotein H (beta-2-glycoprotein I) [Bos taurus]
60	gi 440898772	Apolipoprotein M [Bos mutus]
61	gi 942043113	apolipoprotein R-like [Bos mutus]
62	gi 73587088	APOM protein [Bos taurus]
63	gi 86438511	ApoN protein [Bos taurus]
64	gi 240977	beta 2 glycoprotein I [cattle, Peptide, 326 aa]
65	gi 555974800	beta-2-glycoprotein 1 [Bos mutus]
66	gi 982959007	beta-2-glycoprotein 1 isoform X2 [Bos taurus]
67	gi 27806741	beta-2-glycoprotein 1 precursor [Bos taurus]
68	gi 6	beta-2-glycoprotein I, partial [Bos taurus]
69	gi 942102570	beta-2-microglobulin isoform X2 [Bos mutus]
70	gi 528938459	biotinidase isoform X1 [Bos taurus]
71	gi 942088368	BOLA class I histocompatibility antigen, alpha chain BL3-7, partial [Bos mutus]
72	gi 555992202	butyrophilin-like protein 9 [Bos mutus]
73	gi 92097580	C1QC protein, partial [Bos taurus]
74	gi 942043090	C4b-binding protein alpha chain isoform X1 [Bos mutus]
75	gi 741953400	C4b-binding protein alpha chain isoform X3 [Bos taurus]
76	gi 741953405	C4b-binding protein alpha chain isoform X6 [Bos taurus]
77	gi 440909392	C4b-binding protein alpha chain, partial [Bos mutus]
78	gi 942043084	C4b-binding protein alpha chain-like [Bos mutus]
79	gi 942088362	caldesmon [Bos mutus]
80	gi 555985556	carbonic anhydrase 2 [Bos mutus]
81	gi 555969567	carboxypeptidase B2 isoform X2 [Bos mutus]
82	gi 440899513	Carboxypeptidase N subunit 2 [Bos mutus]
83	gi 440904009	Cartilage oligomeric matrix protein [Bos mutus]
84	gi 296486167	cartilage oligomeric matrix protein [Bos taurus]
85	gi 73587261	Cathepsin C [Bos taurus]
86	gi 74353837	Cathepsin S [Bos taurus]
87	gi 255211	cathepsin S [cattle, spleen, Peptide Partial, 217 aa]
88	gi 1419424	CCP modules 3-12, with parts of CCP 2 and 13, partial [Bos taurus]
89	gi 982946697	CD44 antigen isoform X12 [Bos taurus]
90	gi 942099671	CD5 antigen-like [Bos mutus]
91	gi 741919372	CD5 antigen-like isoform X2 [Bos taurus]

92	gi 296489775	CD5 molecule-like [Bos taurus]
93	gi 942041440	CD59 glycoprotein [Bos mutus]
94	gi 151553956	CD5L protein [Bos taurus]
95	gi 296491101	ceruloplasmin (ferroxidase) [Bos taurus]
96	gi 555981166	ceruloplasmin [Bos mutus]
97	gi 528937555	ceruloplasmin isoform X1 [Bos taurus]
98	gi 375065868	ceruloplasmin precursor [Bos taurus]
99	gi 157830389	Chain A, Crystal Structure Of Bovine Beta2-Microglobulin
100	gi 157838185	Chain A, Crystal Structure Of Cleaved Bovine Antithrombin Iii At 3.2 Angstroms Resolution
101	gi 110590846	Chain A, Structure Of Mammalian C3 With An Intact Thioester At 3a Resolution
102	gi 197724902	Chain B, Bovine Hemoglobin At Ph 6.3
103	gi 61680008	Chain B, Crystal Structure Of Bovine Plasma Copper-Containing Amine Oxidase
104	gi 407943892	Chain B, Crystal Structure Of Bovine Serum Albumin
105	gi 576144	Chain C, A Novel Allosteric Mechanism In Haemoglobin. Structure Of Bovine Deoxyhaemoglobin, Absence Of Specific Chloride- Binding Sites And Origin Of The Chloride-Linked Bohr Effect In Bovine And Human Haemoglobin
106	gi 550544591	Chain C, Crystal Structure Of A Human Mait Tcr In Complex With A Bacterial Antigen Bound To Humanized Bovine Mr1
107	gi 513137421	Chain H, Crystal Structure Of Bovine Antibody Blv1h12 With Ultralong Cdr H3
108	gi 513137425	Chain H, Crystal Structure Of Bovine Antibody Blv5b8 With Ultralong Cdr H3
109	gi 513137426	Chain L, Crystal Structure Of Bovine Antibody Blv5b8 With Ultralong Cdr H3
110	gi 6980826	Chain S, The Crystal Structure Of Modified Bovine Fibrinogen (At ~4 Angstrom Resolution)
111	gi 49259423	Chain X, The Cys121ser Mutant Of Beta-lactoglobulin
112	gi 440893934	Charged multivesicular body protein 7 [Bos mutus]
113	gi 982996542	cilia- and flagella-associated protein 74 [Bos taurus]
114	gi 296490140	ciliary rootlet coiled-coil, rootletin [Bos taurus]
115	gi 94534834	CL-43 protein [Bos taurus]
116	gi 555994901	clusterin [Bos mutus]
117	gi 27806907	clusterin preproprotein [Bos taurus]
118	gi 75948172	Coagulation factor II (thrombin) [Bos taurus]
119	gi 555981040	coagulation factor V [Bos mutus]
120	gi 27806943	coagulation factor V precursor [Bos taurus]
121	gi 942074092	coagulation factor X [Bos mutus]
122	gi 942081298	coagulation factor XII [Bos mutus]
123	gi 555958185	coagulation factor XIII A chain [Bos mutus]
124	gi 296473932	coagulation factor XIII A chain precursor [Bos taurus]
125	gi 95767504	coagulation factor XIII A1 subunit, partial [Bos taurus]
126	gi 440904870	Coagulation factor XIII B chain [Bos mutus]
127	gi 296478847	coagulation factor XIII, B polypeptide [Bos taurus]
128	gi 982977619	coiled-coil domain-containing protein 150 isoform X2 [Bos taurus]
129	gi 741875499	collagen alpha-3(VI) chain isoform X5 [Bos taurus]
130	gi 75775290	Collagen, type I, alpha 1 [Bos taurus]
131	gi 440897853	Complement C1q subcomponent subunit C, partial [Bos mutus]
132	gi 942090244	complement C1r subcomponent [Bos mutus]
133	gi 528950942	complement C1r subcomponent isoform X2 [Bos taurus]
134	gi 555991548	complement C1s subcomponent [Bos mutus]
135	gi 982963891	complement C2 isoform X2 [Bos taurus]

136	gi 77735935	complement C2 precursor [Bos taurus]
137	gi 528955255	complement C3 isoform X1 [Bos taurus]
138	gi 982930501	complement C3 isoform X2 [Bos taurus]
139	gi 99028969	complement C3 preproprotein [Bos taurus]
140	gi 296474220	complement C4 [Bos taurus]
141	gi 983005304	complement C4 isoform X1 [Bos taurus]
142	gi 983005309	complement C4 isoform X3 [Bos taurus]
143	gi 983005311	complement C4 isoform X4 [Bos taurus]
144	gi 31563307	Complement C4; Contains: Full=Complement C4 alpha chain; Contains: Full=C4a anaphylatoxin; Contains: Full=Complement C4 gamma chain; Flags: Precursor
145	gi 942049403	complement C4-A [Bos mutus]
146	gi 983005314	complement C4-A-like [Bos taurus]
147	gi 942102177	complement C4-A-like, partial [Bos mutus]
148	gi 555954772	complement C5 [Bos mutus]
149	gi 296484326	complement C5a anaphylatoxin [Bos taurus]
150	gi 262205546	complement C5a anaphylatoxin precursor [Bos taurus]
151	gi 88683081	Complement component 1, q subcomponent, A chain [Bos taurus]
152	gi 86438060	Complement component 1, q subcomponent, B chain [Bos taurus]
153	gi 810213776	complement component 3 [Bos taurus]
154	gi 146231832	complement component 4 binding protein, alpha chain precursor [Bos taurus]
155	gi 296479410	complement component 4 binding protein, alpha chain-like [Bos taurus]
156	gi 810213780	complement component 5 [Bos taurus]
157	gi 86438503	Complement component 8, alpha polypeptide [Bos taurus]
158	gi 296489069	complement component 8, beta polypeptide [Bos taurus]
159	gi 555955243	complement component C6 [Bos mutus]
160	gi 296475776	complement component C6 precursor [Bos taurus]
161	gi 555955241	complement component C7 [Bos mutus]
162	gi 114051808	complement component C7 precursor [Bos taurus]
163	gi 296475775	complement component C7 precursor [Bos taurus]
164	gi 440899574	Complement component C8 alpha chain [Bos mutus]
165	gi 555982977	complement component C8 beta chain [Bos mutus]
166	gi 741944961	complement component C8 gamma chain isoform X2 [Bos taurus]
167	gi 296475715	complement component C9 precursor [Bos taurus]
168	gi 555963521	complement factor B [Bos mutus]
169	gi 86438491	Complement factor B [Bos taurus]
170	gi 555996082	complement factor D [Bos mutus]
171	gi 741933564	complement factor D-like [Bos taurus]
172	gi 75948219	Complement factor H [Bos taurus]
173	gi 942062627	complement factor H, partial [Bos mutus]
174	gi 982996119	complement factor H-like [Bos taurus]
175	gi 296479360	complement factor H-related 1-like isoform 1 [Bos taurus]
176	gi 297484447	complement factor H-related protein 2 [Bos taurus]
177	gi 982997359	complement factor H-related protein 5 isoform X1 [Bos taurus]
178	gi 982997362	complement factor H-related protein 5 isoform X2 [Bos taurus]
179	gi 84000165	complement factor I precursor [Bos taurus]
180	gi 741536	component PP3
181	gi 22852250	conglutinin precursor [Bos taurus]
182	gi 31982388	conglutinin precursor [Bos taurus]

183	gi 741898667	corticosteroid-binding globulin [Bos taurus]
184	gi 982916018	C-reactive protein isoform X1 [Bos taurus]
185	gi 982968754	deleted in malignant brain tumors 1 protein [Bos taurus]
186	gi 741942862	E3 SUMO-protein ligase RanBP2 isoform X2 [Bos taurus]
187	gi 7649316	elongation factor 1 alpha [Bos taurus]
188	gi 296475221	endopin 1b [Bos taurus]
189	gi 83405834	Endopin 1b [Bos taurus]
190	gi 296475175	endopin 2 [Bos taurus]
191	gi 38683423	endopin 2B [Bos taurus]
192	gi 296475302	endopin 2C-like [Bos taurus]
193	gi 942052392	extracellular matrix protein 1 isoform X1 [Bos mutus]
194	gi 528942727	extracellular matrix protein 1 isoform X2 [Bos taurus]
195	gi 741919958	extracellular matrix protein 1 isoform X3 [Bos taurus]
196	gi 982928093	extracellular superoxide dismutase [Cu-Zn] isoform X2 [Bos taurus]
197	gi 75773761	F10 protein, partial [Bos taurus]
198	gi 86821856	F11 protein [Bos taurus]
199	gi 528978722	factor XIIa inhibitor isoform X1 [Bos taurus]
200	gi 27807349	factor XIIa inhibitor precursor [Bos taurus]
201	gi 296491285	fetuin-B precursor [Bos taurus]
202	gi 74267780	FGG protein [Bos taurus]
203	gi 148745450	Fibrinogen alpha chain [Bos taurus]
204	gi 74354217	Fibrinogen alpha chain [Bos taurus]
205	gi 555979030	fibrinogen alpha chain isoform X1 [Bos mutus]
206	gi 555979030	fibrinogen alpha chain isoform X1 [Bos mutus]
207	gi 741955615	fibrinogen alpha chain isoform X1 [Bos taurus]
208	gi 942071249	fibrinogen alpha chain isoform X2 [Bos mutus]
209	gi 218931172	fibrinogen beta chain precursor [Bos taurus]
210	gi 555979024	fibrinogen gamma chain isoform X2 [Bos mutus]
211	gi 528940104	fibronectin isoform X10 [Bos taurus]
212	gi 942097090	fibronectin isoform X13 [Bos mutus]
213	gi 528940098	fibronectin isoform X7 [Bos taurus]
214	gi 942097080	fibronectin isoform X8 [Bos mutus]
215	gi 296486900	fibulin 1 [Bos taurus]
216	gi 942056121	fibulin-1 [Bos mutus]
217	gi 440905574	Fibulin-1, partial [Bos mutus]
218	gi 1091255	flavin reductase
219	gi 942091517	four and a half LIM domains protein 1 isoform X5 [Bos mutus]
220	gi 440907052	Fructose-bisphosphate aldolase A [Bos mutus]
221	gi 46397335	Full=Actin, cytoplasmic 1; AltName: Full=Beta-actin; Contains: Full=Actin, cytoplasmic 1, N-terminally processed
222	gi 461603	Full=Beta-2-microglobulin; AltName: Full=Lactollin; Flags: Precursor
223	gi 824630452	Full=Coagulation factor IX; AltName: Full=Christmas factor; Contains: Full=Coagulation factor IXa light chain; Contains: Full=Coagulation factor IXa heavy chain; Flags: Precursor
224	gi 1346006	Full=Fibrinogen beta chain; Contains: Full=Fibrinopeptide B; Contains: Full=Fibrinogen beta chain; Flags: Precursor
225	gi 109829196	Full=Fibroleukin; AltName: Full=Fibrinogen-like protein 2; Flags: Precursor
226	gi 85682743	Full=Glyceraldehyde-3-phosphate dehydrogenase; Short=GAPDH; AltName: Full=Peptidyl-cysteine S-nitrosylase GAPDH

227	gi 110831923	Full=Hemoglobin subunit alpha; AltName: Full=Alpha-globin; AltName: Full=Hemoglobin alpha chain
228	gi 13634094	Full=Hemoglobin subunit alpha; AltName: Full=Alpha-globin; AltName: Full=Hemoglobin alpha chain
229	gi 125506	Full=Kininogen-2; AltName: Full=Kininogen II; AltName: Full=Thiol proteinase inhibitor; Contains: Full=Kininogen-2 heavy chain; Contains: Full=Bradykinin; AltName: Full=Kallidin I; Contains: Full=Lysyl-bradykinin; AltName: Full=Kallidin II; Contains: Full=Kininogen-2 light chain; Flags: Precursor
230	gi 38605375	Full=Peptidoglycan recognition protein 1; AltName: Full=Oligosaccharide-binding protein; Short=OBP; AltName: Full=Peptidoglycan recognition protein short; Short=PGRP-S; Flags: Precursor
231	gi 400770	Full=Phosphatidylinositol-glycan-specific phospholipase D; Short=PI-G PLD; AltName: Full=Glycoprotein phospholipase D; AltName: Full=Glycosyl-phosphatidylinositol-specific phospholipase D; Short=GPI-PLD; Short=GPI-specific phospholipase D; Flags: Precursor
232	gi 3914346	Full=Polymeric immunoglobulin receptor; Short=PIgR; Short=Poly-Ig receptor; Contains: Full=Secretory component; Flags: Precursor
233	gi 2501335	Full=Primary amine oxidase, liver isozyme; AltName: Full=Amine oxidase [copper-containing]; AltName: Full=Copper amine oxidase; AltName: Full=Serum amine oxidase; Short=SAO; Flags: Precursor
234	gi 122136100	Full=Protein HP-25 homolog 2; Flags: Precursor
235	gi 2501351	Full=Serotransferrin; Short=Transferrin; AltName: Full=Beta-1 metal-binding globulin; AltName: Full=Siderophilin; Flags: Precursor
236	gi 313471469	Full=Serpina3-6; Flags: Precursor
237	gi 93140718	Full=Tubulin beta-4B chain; AltName: Full=Tubulin beta-2C chain
238	gi 85701291	Full=Vitamin D-binding protein; Short=DBP; Short=VDB; AltName: Full=Gc-globulin; AltName: Full=Group-specific component; Flags: Precursor
239	gi 942098741	galectin-3-binding protein isoform X2 [Bos mutus]
240	gi 555954370	gamma-aminobutyric acid receptor subunit rho-1 [Bos mutus]
241	gi 296484314	gelsolin a [Bos taurus]
242	gi 77736201	gelsolin isoform b [Bos taurus]
243	gi 296488981	guanylin-like [Bos taurus]
244	gi 7579913	Hageman factor, partial [Bos taurus]
245	gi 83638561	Haptoglobin [Bos taurus]
246	gi 296477882	haptoglobin precursor [Bos taurus]
247	gi 6006423	hemoglobin alpha chain [Bos taurus]
248	gi 6006425	hemoglobin alpha chain [Bos taurus]
249	gi 223905	hemoglobin alphas
250	gi 294459651	hemoglobin beta [Bos frontalis frontalis]
251	gi 294459617	hemoglobin beta [Bos indicus]
252	gi 294459619	hemoglobin beta [Bos indicus]
253	gi 294459627	hemoglobin beta [Bos javanicus javanicus]
254	gi 223864	hemoglobin beta Bali
255	gi 296479990	hemoglobin fetal subunit beta-like [Bos taurus]
256	gi 223353	hemoglobin lbeta
257	gi 942029061	hemoglobin subunit alpha-1 [Bos mutus]
258	gi 555992414	hemoglobin subunit beta [Bos mutus]
259	gi 160333301	hemoglobin, gamma 2 [Bos taurus]
260	gi 555990772	hemopexin [Bos mutus]
261	gi 77736171	hemopexin precursor [Bos taurus]
262	gi 942064847	heparin cofactor 2 [Bos mutus]

263	gi 528989611	heparin cofactor 2 isoform X1 [Bos taurus]
264	gi 942051006	hepatocyte growth factor activator isoform X3 [Bos mutus]
265	gi 333360891	hepatocyte growth factor activator preproprotein [Bos taurus]
266	gi 555960159	hepatocyte growth factor-like protein [Bos mutus]
267	gi 1072452	histidine-rich glycoprotein - bovine (fragments)
268	gi 555998220	histidine-rich glycoprotein [Bos mutus]
269	gi 27806875	histidine-rich glycoprotein precursor [Bos taurus]
270	gi 134085671	histone H1.2 [Bos taurus]
271	gi 555968013	histone H2A type 1-like [Bos mutus]
272	gi 982980171	histone H2B type 1 [Bos taurus]
273	gi 555960344	histone H2B type 1-B [Bos mutus]
274	gi 982980274	histone H4 isoform X2, partial [Bos taurus]
275	gi 256860914	HP-25 [Bos taurus]
276	gi 440907257	hypothetical protein M91_03189, partial [Bos mutus]
277	gi 440900222	hypothetical protein M91_13280 [Bos mutus]
278	gi 440893976	hypothetical protein M91_13457, partial [Bos mutus]
279	gi 440893977	hypothetical protein M91_13458, partial [Bos mutus]
280	gi 440893980	hypothetical protein M91_13462, partial [Bos mutus]
281	gi 440890143	hypothetical protein M91_14552, partial [Bos mutus]
282	gi 440890144	hypothetical protein M91_14553, partial [Bos mutus]
283	gi 440910795	hypothetical protein M91_19289, partial [Bos mutus]
284	gi 440910796	hypothetical protein M91_19291, partial [Bos mutus]
285	gi 555992242	inhibitor of carbonic anhydrase [Bos mutus]
286	gi 528937964	inhibitor of carbonic anhydrase isoform X1 [Bos taurus]
287	gi 9664869	insulin-like growth factor 2, partial [Bos indicus]
288	gi 90823112	insulin-like growth factor binding protein acid labile subunit [Bos taurus]
289	gi 11095303	insulin-like growth factor binding protein-3 [Bos taurus]
290	gi 163190	insulin-like growth factor binding protein-3 [Bos taurus]
291	gi 982925531	insulin-like growth factor I isoform X4 [Bos taurus]
292	gi 27807005	insulin-like growth factor-binding protein 2 precursor [Bos taurus]
293	gi 296490277	insulin-like growth factor-binding protein 2 precursor [Bos taurus]
294	gi 555972189	insulin-like growth factor-binding protein 4 [Bos mutus]
295	gi 741917592	insulin-like growth factor-binding protein 5 isoform X1 [Bos taurus]
296	gi 942028887	insulin-like growth factor-binding protein complex acid labile subunit [Bos mutus]
297	gi 111308523	Inter-alpha (globulin) inhibitor H1 [Bos taurus]
298	gi 59857769	inter-alpha (globulin) inhibitor H4 (plasma Kallikrein-sensitive glycoprotein) [Bos taurus]
299	gi 296481520	inter-alpha globulin inhibitor H2 polypeptide [Bos taurus]
300	gi 296481520	inter-alpha globulin inhibitor H2 polypeptide [Bos taurus]
301	gi 555969038	inter-alpha-trypsin inhibitor heavy chain H1 [Bos mutus]
302	gi 529001398	inter-alpha-trypsin inhibitor heavy chain H1 isoform X1 [Bos taurus]
303	gi 555967027	inter-alpha-trypsin inhibitor heavy chain H2 [Bos mutus]
304	gi 982961876	inter-alpha-trypsin inhibitor heavy chain H3 isoform X1 [Bos taurus]
305	gi 156120445	inter-alpha-trypsin inhibitor heavy chain H3 precursor [Bos taurus]
306	gi 555969034	inter-alpha-trypsin inhibitor heavy chain H4 [Bos mutus]
307	gi 982961939	inter-alpha-trypsin inhibitor heavy chain H4 isoform X2 [Bos taurus]
308	gi 296474801	inter-alpha-trypsin inhibitor heavy chain H4 precursor [Bos taurus]
309	gi 56710317	keratin, type II cytoskeletal 5 [Bos taurus]

310	gi 440896118	Keratin, type II cytoskeletal 6A [Bos mutus]
311	gi 942093051	keratinocyte differentiation-associated protein isoform X2 [Bos mutus]
312	gi 741962669	kinesin-like protein KIF1C isoform X2 [Bos taurus]
313	gi 222986	kininogen fragment,low MW
314	gi 488	kininogen I precursor [Bos taurus]
315	gi 490	kininogen II precursor [Bos taurus]
316	gi 440891699	Kininogen-1 [Bos mutus]
317	gi 555998222	kininogen-1 isoform X2 [Bos mutus]
318	gi 555998224	kininogen-1 isoform X3 [Bos mutus]
319	gi 164450479	kininogen-2 isoform I precursor [Bos taurus]
320	gi 528936694	kininogen-2 isoform X1 [Bos taurus]
321	gi 146157606	lactoferrin [Bos indicus x Bos taurus]
322	gi 408926	lactoferrin [Bos taurus]
323	gi 9650974	lactoferrin [Bos taurus]
324	gi 86826324	Leucine-rich alpha-2-glycoprotein 1 [Bos taurus]
325	gi 83759164	Lipopolysaccharide binding protein [Bos taurus]
326	gi 555968021	lipopolysaccharide-binding protein [Bos mutus]
327	gi 938326464	L-lactate dehydrogenase B chain isoform LDHBx [Bos taurus]
328	gi 81673144	LOC504773 protein [Bos taurus]
329	gi 74354899	Lumican [Bos taurus]
330	gi 982981096	maltase-glucoamylase, intestinal isoform X1 [Bos taurus]
331	gi 982910626	mannan-binding lectin serine protease 1 isoform X3 [Bos taurus]
332	gi 982947887	mannan-binding lectin serine protease 2 isoform X1 [Bos taurus]
333	gi 440910925	Mannose-binding protein C [Bos mutus]
334	gi 741925540	methyltransferase-like protein 25 isoform X1 [Bos taurus]
335	gi 84095083	MHC class I antigen [Bos taurus]
336	gi 296474233	MHC Class I JSP.1 [Bos taurus]
337	gi 73586735	Myoglobin [Bos taurus]
338	gi 555984640	N-acetylmuramoyl-L-alanine amidase [Bos mutus]
339	gi 555979010	nuclease-sensitive element-binding protein 1 [Bos mutus]
340	gi 555979930	osteomodulin [Bos mutus]
341	gi 296487631	ovarian and testicular apolipoprotein N [Bos taurus]
342	gi 942032752	pantetheinase isoform X2 [Bos mutus]
343	gi 296486107	peptidoglycan recognition protein L-like [Bos taurus]
344	gi 555990836	periostin isoform X5 [Bos mutus]
345	gi 86823983	Periostin, osteoblast specific factor [Bos taurus]
346	gi 942068958	peroxiredoxin-2 [Bos mutus]
347	gi 440905425	Phosphatidylcholine-sterol acyltransferase [Bos mutus]
348	gi 296477942	phosphatidylcholine-sterol acyltransferase [Bos taurus]
349	gi 741958184	phosphatidylcholine-sterol acyltransferase isoform X1 [Bos taurus]
350	gi 982928075	phosphatidylinositol 4-kinase type 2-beta isoform X2 [Bos taurus]
351	gi 555982613	phosphatidylinositol-glycan-specific phospholipase D [Bos mutus]
352	gi 982964313	phosphatidylinositol-glycan-specific phospholipase D isoform X1 [Bos taurus]
353	gi 73587283	PKM2 protein, partial [Bos taurus]
354	gi 942064061	plasma kallikrein [Bos mutus]
355	gi 296472427	plasma kallikrein precursor [Bos taurus]
356	gi 555958159	plasma protease C1 inhibitor [Bos mutus]

357	gi 440905713	Plasma serine protease inhibitor [Bos mutus]
358	gi 296475172	plasma serine protease inhibitor precursor [Bos taurus]
359	gi 494963	plasminogen [Bos taurus]
360	gi 555977002	plasminogen isoform X5 [Bos mutus]
361	gi 296483851	plasminogen precursor [Bos taurus]
362	gi 942057082	plastin-2 [Bos mutus]
363	gi 297475989	platelet basic protein [Bos taurus]
364	gi 555958381	platelet factor 4 [Bos mutus]
365	gi 162296326	PON1 [Bos taurus]
366	gi 492	prekininogen [Bos taurus]
367	gi 83764016	prepro complement component C3 [Bos taurus]
368	gi 741896632	primary amine oxidase, liver isozyme isoform X1 [Bos taurus]
369	gi 741963933	primary amine oxidase, liver isozyme isoform X2 [Bos taurus]
370	gi 440893900	Primary amine oxidase, liver isozyme, partial [Bos mutus]
371	gi 87578362	Procollagen C-endopeptidase enhancer [Bos taurus]
372	gi 555974866	properdin [Bos mutus]
373	gi 115495873	properdin precursor [Bos taurus]
374	gi 296484341	protein AMBP precursor [Bos taurus]
375	gi 942042388	protein CutA [Bos mutus]
376	gi 741969991	protein CutA isoform X1 [Bos taurus]
377	gi 555972795	protein HP-20 homolog isoform X1 [Bos mutus]
378	gi 942061299	protein HP-20 homolog isoform X2 [Bos mutus]
379	gi 555972797	protein HP-25 homolog 2 [Bos mutus]
380	gi 440903969	Protein HP-25-like protein 1 [Bos mutus]
381	gi 440905707	Protein Z-dependent protease inhibitor [Bos mutus]
382	gi 149642955	protein Z-dependent protease inhibitor precursor [Bos taurus]
383	gi 296478893	proteoglycan 4 [Bos taurus]
384	gi 528978409	prothrombin isoform X1 [Bos taurus]
385	gi 27806947	prothrombin precursor [Bos taurus]
386	gi 81674813	RBP4 protein [Bos taurus]
387	gi 296477001	regakine-1 precursor [Bos taurus]
388	gi 555957149	retinol-binding protein 4 [Bos mutus]
389	gi 296472650	retinol-binding protein 4 [Bos taurus]
390	gi 555963029	rho guanine nucleotide exchange factor 17 [Bos mutus]
391	gi 158454980	Ribonuclease, RNase A family, 4 [Bos taurus]
392	gi 555991717	ribosomal RNA processing protein 1 homolog A isoform X1 [Bos mutus]
393	gi 555991719	ribosomal RNA processing protein 1 homolog A isoform X2 [Bos mutus]
394	gi 982991949	sacsin isoform X2 [Bos taurus]
395	gi 449500	selenium-dependent glutathione peroxidase
396	gi 95769204	serine (or cysteine) proteinase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 1 [Bos taurus]
397	gi 440895298	Serotransferrin [Bos mutus]
398	gi 114326282	serotransferrin precursor [Bos taurus]
399	gi 296490958	serotransferrin precursor [Bos taurus]
400	gi 88682970	Serotransferrin-like [Bos taurus]
401	gi 555998463	serpin A3-3 [Bos mutus]
402	gi 296475157	serpin A3-6 [Bos taurus]
403	gi 555992238	serpin A3-7 [Bos mutus]

404	gi 75832097	serpin A3-7 precursor [Bos taurus]
405	gi 985701132	serpin A3-7-like precursor [Bos taurus]
406	gi 555964497	serpin A3-8 [Bos mutus]
407	gi 528999831	serpin A3-8 isoform X1 [Bos taurus]
408	gi 528978042	serpin H1 isoform X1 [Bos taurus]
409	gi 296475228	serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 3 [Bos taurus]
410	gi 86438524	Serpin peptidase inhibitor, clade F (alpha-2 antiplasmin, pigment epithelium derived factor), member 1 [Bos taurus]
411	gi 86438018	SERPINA3 protein [Bos taurus]
412	gi 121531626	SERPINA3-2 [Bos taurus]
413	gi 121531628	SERPINA3-4 [Bos taurus]
414	gi 121531630	SERPINA3-5 [Bos taurus]
415	gi 555958369	serum albumin [Bos mutus]
416	gi 296486410	serum albumin precursor [Bos taurus]
417	gi 555977609	serum amyloid A protein [Bos mutus]
418	gi 741979396	serum amyloid A protein isoform X1 [Bos taurus]
419	gi 741979398	serum amyloid A protein isoform X2 [Bos taurus]
420	gi 983009584	serum amyloid A protein-like [Bos taurus]
421	gi 942053804	serum amyloid A-4 protein isoform X1 [Bos mutus]
422	gi 982971312	serum amyloid A-4 protein isoform X1 [Bos taurus]
423	gi 942093437	serum amyloid P-component isoform X1 [Bos mutus]
424	gi 440893303	Serum paraoxonase/arylesterase 1 [Bos mutus]
425	gi 528995105	sex hormone-binding globulin isoform X1 [Bos taurus]
426	gi 741962906	sex hormone-binding globulin isoform X2 [Bos taurus]
427	gi 45429979	spleen trypsin inhibitor I precursor [Bos taurus]
428	gi 555968261	tetranectin [Bos mutus]
429	gi 74356399	Thrombospondin 4 [Bos taurus]
430	gi 942035840	thrombospondin-1 [Bos mutus]
431	gi 41386685	thrombospondin-1 precursor [Bos taurus]
432	gi 296482454	thymosin beta-10 [Bos taurus]
433	gi 942041683	thymosin beta-4 isoform X1 [Bos mutus]
434	gi 296480569	thymosin, beta 4-like [Bos taurus]
435	gi 982973208	thyroxine-binding globulin isoform X1 [Bos taurus]
436	gi 102527398	TPA_inf: hepatitis A virus cellular receptor 1 N-terminal domain containing protein [Bos taurus]
437	gi 334265666	TPA_inf: von Willebrand factor [Bos taurus]
438	gi 209973077	transferrin [Bos grunniens]
439	gi 440910443	Transforming growth factor-beta-induced protein ig-h3 [Bos mutus]
440	gi 59858295	transgelin 2 [Bos taurus]
441	gi 440901679	Transthyretin [Bos mutus]
442	gi 2696504	transthyretin [Bos taurus]
443	gi 555968942	trem-like transcript 1 protein [Bos mutus]
444	gi 528954501	tropomyosin alpha-4 chain isoform X3 [Bos taurus]
445	gi 942069538	tropomyosin beta chain isoform X1 [Bos mutus]
446	gi 115495991	uncharacterized protein LOC510860 precursor [Bos taurus]
447	gi 982916735	uncharacterized protein LOC516742 [Bos taurus]
448	gi 157279963	uncharacterized protein LOC790886 precursor [Bos taurus]

449	gi 146186536	Unknown (protein for MGC:148283) [Bos taurus]
450	gi 151556360	Unknown (protein for MGC:159378) [Bos taurus]
451	gi 148878143	Unknown (protein for MGC:159411) [Bos taurus]
452	gi 148744128	Unknown (protein for MGC:159455) [Bos taurus]
453	gi 295032043	unnamed protein product [Bos taurus]
454	gi 1364185	unnamed protein product, partial [Bos taurus]
455	gi 155372041	vascular cell adhesion molecule 1-like precursor [Bos taurus]
456	gi 982970459	vinculin isoform X4 [Bos taurus]
457	gi 397740864	vitamin D binding protein [Bos taurus]
458	gi 942057836	vitamin D-binding protein [Bos mutus]
459	gi 982912808	vitamin K-dependent protein C isoform X3 [Bos taurus]
460	gi 555961878	vitamin K-dependent protein S [Bos mutus]
461	gi 440895896	Vitronectin [Bos mutus]
462	gi 296476844	vitronectin [Bos taurus]
463	gi 942054053	von Willebrand factor [Bos mutus]
464	gi 358417209	WAP four-disulfide core domain protein 18-like [Bos taurus]
465	gi 555962213	zinc-alpha-2-glycoprotein [Bos mutus]
466	gi 296472930	zinc-alpha-2-glycoprotein precursor [Bos taurus]
467	gi 555949153	zyxin [Bos mutus]
468	gi 440890535	Ig epsilon chain C region, partial [Bos mutus]
469	gi 89611	Ig gamma-2 chain C region (clone 32.2) - bovine (fragment)
470	gi 440890534	Ig gamma-3 chain C region, partial [Bos mutus]
471	gi 983012461	Ig heavy chain Mem5, partial [Bos taurus]
472	gi 982951043	Ig heavy chain Mem5-like [Bos taurus]
473	gi 741911706	Ig heavy chain Mem5-like, partial [Bos taurus]
474	gi 983004227	Ig heavy chain Mem5-like, partial [Bos taurus]
475	gi 983004231	Ig heavy chain V region PJ14 isoform X3 [Bos taurus]
476	gi 440894706	Ig kappa chain C region [Bos mutus]
477	gi 440894708	Ig kappa chain V-I region Walker, partial [Bos mutus]
478	gi 440894559	Ig kappa chain V-II region RPMI 6410, partial [Bos mutus]
479	gi 942095460	Ig lambda chain V-III region SH [Bos mutus]
480	gi 942095460	Ig lambda chain V-III region SH [Bos mutus]
481	gi 942095463	Ig lambda chain V-IV region Hil [Bos mutus]
482	gi 7547266	IgG1 heavy chain constant region, partial [Bos taurus]
483	gi 1493797	IgG1 heavy chain, partial (plasmid) [Bos taurus]
484	gi 1699167	IgG2a heavy chain constant region, partial [Bos taurus]
485	gi 1575493	IgG3 heavy chain constant region, partial [Bos taurus]
486	gi 1575495	IgG3 heavy chain constant region, partial [Bos taurus]
487	gi 115545495	IGK protein [Bos taurus]
488	gi 154425814	IGK protein [Bos taurus]
489	gi 296482543	IGK protein-like [Bos taurus]
490	gi 74353860	IGL@ protein [Bos taurus]
491	gi 28592070	IgM heavy chain constant region, secretory form, partial [Bos taurus]
492	gi 4680177	immunoglobulin light chain VJ region, partial [Bos taurus]
493	gi 509264888	immunoglobulin alpha heavy chain variable region, partial [Bos taurus]
494	gi 509264897	immunoglobulin alpha heavy chain variable region, partial [Bos taurus]
495	gi 509264906	immunoglobulin alpha heavy chain variable region, partial [Bos taurus]

496	gi 509264957	immunoglobulin alpha heavy chain variable region, partial [Bos taurus]
497	gi 509264984	immunoglobulin alpha heavy chain variable region, partial [Bos taurus]
498	gi 22773998	immunoglobulin delta heavy chain membrane bound form, partial [Bos taurus]
499	gi 509264401	immunoglobulin delta heavy chain variable region, partial [Bos taurus]
500	gi 509264433	immunoglobulin delta heavy chain variable region, partial [Bos taurus]
501	gi 509264436	immunoglobulin delta heavy chain variable region, partial [Bos taurus]
502	gi 509264464	immunoglobulin delta heavy chain variable region, partial [Bos taurus]
503	gi 509264466	immunoglobulin delta heavy chain variable region, partial [Bos taurus]
504	gi 509264473	immunoglobulin delta heavy chain variable region, partial [Bos taurus]
505	gi 509264513	immunoglobulin delta heavy chain variable region, partial [Bos taurus]
506	gi 509264531	immunoglobulin delta heavy chain variable region, partial [Bos taurus]
507	gi 33413900	immunoglobulin epsilon heavy chain constant region, partial [Bos taurus]
508	gi 509264755	immunoglobulin epsilon heavy chain variable region, partial [Bos taurus]
509	gi 509264776	immunoglobulin epsilon heavy chain variable region, partial [Bos taurus]
510	gi 509264813	immunoglobulin epsilon heavy chain variable region, partial [Bos taurus]
511	gi 509264827	immunoglobulin epsilon heavy chain variable region, partial [Bos taurus]
512	gi 509264841	immunoglobulin epsilon heavy chain variable region, partial [Bos taurus]
513	gi 509264854	immunoglobulin epsilon heavy chain variable region, partial [Bos taurus]
514	gi 509264861	immunoglobulin epsilon heavy chain variable region, partial [Bos taurus]
515	gi 509264868	immunoglobulin epsilon heavy chain variable region, partial [Bos taurus]
516	gi 509264882	immunoglobulin epsilon heavy chain variable region, partial [Bos taurus]
517	gi 91982959	immunoglobulin gamma 1 heavy chain constant region, partial [Bos taurus]
518	gi 509264670	immunoglobulin gamma heavy chain variable region, partial [Bos taurus]
519	gi 509264677	immunoglobulin gamma heavy chain variable region, partial [Bos taurus]
520	gi 509264697	immunoglobulin gamma heavy chain variable region, partial [Bos taurus]
521	gi 509264712	immunoglobulin gamma heavy chain variable region, partial [Bos taurus]
522	gi 509264725	immunoglobulin gamma heavy chain variable region, partial [Bos taurus]
523	gi 94961500	immunoglobulin gamma heavy chain variable region, partial [Bos taurus]
524	gi 94961510	immunoglobulin gamma heavy chain variable region, partial [Bos taurus]
525	gi 94961520	immunoglobulin gamma heavy chain variable region, partial [Bos taurus]
526	gi 94961524	immunoglobulin gamma heavy chain variable region, partial [Bos taurus]
527	gi 94961528	immunoglobulin gamma heavy chain variable region, partial [Bos taurus]
528	gi 94961534	immunoglobulin gamma heavy chain variable region, partial [Bos taurus]
529	gi 34538498	immunoglobulin heavy chain constant region, partial [Bos taurus]
530	gi 3834667	immunoglobulin heavy chain constant region, partial [Bos taurus]
531	gi 1000346	immunoglobulin heavy chain variable region, partial [Bos taurus]
532	gi 1293580	immunoglobulin heavy chain variable region, partial [Bos taurus]
533	gi 1293590	immunoglobulin heavy chain variable region, partial [Bos taurus]
534	gi 1293592	immunoglobulin heavy chain variable region, partial [Bos taurus]
535	gi 1293598	immunoglobulin heavy chain variable region, partial [Bos taurus]
536	gi 1293604	immunoglobulin heavy chain variable region, partial [Bos taurus]
537	gi 1293606	immunoglobulin heavy chain variable region, partial [Bos taurus]
538	gi 1293610	immunoglobulin heavy chain variable region, partial [Bos taurus]
539	gi 1293612	immunoglobulin heavy chain variable region, partial [Bos taurus]
540	gi 2145031	immunoglobulin heavy chain variable region, partial [Bos taurus]
541	gi 24459869	immunoglobulin heavy chain variable region, partial [Bos taurus]
542	gi 373427753	immunoglobulin heavy chain variable region, partial [Bos taurus]

543	gi 373427757	immunoglobulin heavy chain variable region, partial [Bos taurus]
544	gi 3834651	immunoglobulin heavy chain variable region, partial [Bos taurus]
545	gi 3834665	immunoglobulin heavy chain variable region, partial [Bos taurus]
546	gi 3892110	immunoglobulin heavy chain variable region, partial [Bos taurus]
547	gi 3892112	immunoglobulin heavy chain variable region, partial [Bos taurus]
548	gi 3892118	immunoglobulin heavy chain variable region, partial [Bos taurus]
549	gi 3892122	immunoglobulin heavy chain variable region, partial [Bos taurus]
550	gi 662033942	immunoglobulin heavy chain variable region, partial [Bos taurus]
551	gi 662033951	immunoglobulin heavy chain variable region, partial [Bos taurus]
552	gi 662033967	immunoglobulin heavy chain variable region, partial [Bos taurus]
553	gi 662033969	immunoglobulin heavy chain variable region, partial [Bos taurus]
554	gi 662033973	immunoglobulin heavy chain variable region, partial [Bos taurus]
555	gi 662033979	immunoglobulin heavy chain variable region, partial [Bos taurus]
556	gi 662033983	immunoglobulin heavy chain variable region, partial [Bos taurus]
557	gi 662033989	immunoglobulin heavy chain variable region, partial [Bos taurus]
558	gi 662033991	immunoglobulin heavy chain variable region, partial [Bos taurus]
559	gi 94502743	immunoglobulin heavy chain variable region, partial [Bos taurus]
560	gi 995923	immunoglobulin heavy chain variable region, partial [Bos taurus]
561	gi 995927	immunoglobulin heavy chain variable region, partial [Bos taurus]
562	gi 1322318	immunoglobulin heavy chain, partial [Bos taurus]
563	gi 1322334	immunoglobulin heavy chain, partial [Bos taurus]
564	gi 1335945	immunoglobulin heavy chain, partial [Bos taurus]
565	gi 1335949	immunoglobulin heavy chain, partial [Bos taurus]
566	gi 1335951	immunoglobulin heavy chain, partial [Bos taurus]
567	gi 1335961	immunoglobulin heavy chain, partial [Bos taurus]
568	gi 94981788	immunoglobulin heavy chain, partial [Bos taurus]
569	gi 296478322	immunoglobulin iota chain-like [Bos taurus]
570	gi 74268358	Immunoglobulin J chain [Bos taurus]
571	gi 942057896	immunoglobulin J chain isoform X2 [Bos mutus]
572	gi 343482369	immunoglobulin kappa light chain constant region, partial [Bos taurus]
573	gi 15088675	immunoglobulin lambda light chain [Bos taurus]
574	gi 343197002	immunoglobulin lambda light chain constant region 2 allotypic variant IGLC2a, partial [Bos taurus]
575	gi 343197006	immunoglobulin lambda light chain constant region 2 allotypic variant IGLC2b, partial [Bos taurus]
576	gi 343197024	immunoglobulin lambda light chain constant region 3 allotypic variant IGLC3b, partial [Bos taurus]
577	gi 343197028	immunoglobulin lambda light chain constant region 3 allotypic variant IGLC3c, partial [Bos taurus]
578	gi 1276599	immunoglobulin lambda light chain variable region, partial [Bos taurus]
579	gi 1276605	immunoglobulin lambda light chain variable region, partial [Bos taurus]
580	gi 1276607	immunoglobulin lambda light chain variable region, partial [Bos taurus]
581	gi 1276609	immunoglobulin lambda light chain variable region, partial [Bos taurus]
582	gi 1276611	immunoglobulin lambda light chain variable region, partial [Bos taurus]
583	gi 1276615	immunoglobulin lambda light chain variable region, partial [Bos taurus]
584	gi 1276619	immunoglobulin lambda light chain variable region, partial [Bos taurus]
585	gi 1276621	immunoglobulin lambda light chain variable region, partial [Bos taurus]
586	gi 1276623	immunoglobulin lambda light chain variable region, partial [Bos taurus]
587	gi 1276629	immunoglobulin lambda light chain variable region, partial [Bos taurus]

588	gi 950177	immunoglobulin lambda light chain variable region, partial [Bos taurus]
589	gi 975844	immunoglobulin lambda light chain variable region, partial [Bos taurus]
590	gi 975858	immunoglobulin lambda light chain variable region, partial [Bos taurus]
591	gi 975860	immunoglobulin lambda light chain variable region, partial [Bos taurus]
592	gi 741957421	immunoglobulin lambda-like polypeptide 1 isoform X1 [Bos taurus]
593	gi 555979456	immunoglobulin lambda-like polypeptide 5, partial [Bos mutus]
594	gi 2323378	immunoglobulin light chain variable region, partial [Bos taurus]
595	gi 2323382	immunoglobulin light chain variable region, partial [Bos taurus]
596	gi 2323384	immunoglobulin light chain variable region, partial [Bos taurus]
597	gi 2323390	immunoglobulin light chain variable region, partial [Bos taurus]
598	gi 2323394	immunoglobulin light chain variable region, partial [Bos taurus]
599	gi 2323396	immunoglobulin light chain variable region, partial [Bos taurus]
600	gi 2323398	immunoglobulin light chain variable region, partial [Bos taurus]
601	gi 2323400	immunoglobulin light chain variable region, partial [Bos taurus]
602	gi 2323402	immunoglobulin light chain variable region, partial [Bos taurus]
603	gi 2323404	immunoglobulin light chain variable region, partial [Bos taurus]
604	gi 2323406	immunoglobulin light chain variable region, partial [Bos taurus]
605	gi 2555149	immunoglobulin light chain variable region, partial [Bos taurus]
606	gi 2555153	immunoglobulin light chain variable region, partial [Bos taurus]
607	gi 3834669	immunoglobulin light chain variable region, partial [Bos taurus]
608	gi 3892094	immunoglobulin light chain variable region, partial [Bos taurus]
609	gi 3892100	immunoglobulin light chain variable region, partial [Bos taurus]
610	gi 3892108	immunoglobulin light chain variable region, partial [Bos taurus]
611	gi 92096965	Immunoglobulin light chain, lambda gene cluster [Bos taurus]
612	gi 310893433	immunoglobulin light chain, partial [Bos taurus]
613	gi 310893435	immunoglobulin light chain, partial [Bos taurus]
614	gi 310893437	immunoglobulin light chain, partial [Bos taurus]
615	gi 24496448	immunoglobulin M heavy chain secretory form [Bos taurus]
616	gi 33413902	immunoglobulin mu heavy chain constant region, partial [Bos taurus]
617	gi 509264237	immunoglobulin mu heavy chain variable region, partial [Bos taurus]
618	gi 509264245	immunoglobulin mu heavy chain variable region, partial [Bos taurus]
619	gi 509264259	immunoglobulin mu heavy chain variable region, partial [Bos taurus]
620	gi 509264266	immunoglobulin mu heavy chain variable region, partial [Bos taurus]
621	gi 509264274	immunoglobulin mu heavy chain variable region, partial [Bos taurus]
622	gi 509264324	immunoglobulin mu heavy chain variable region, partial [Bos taurus]
623	gi 509264336	immunoglobulin mu heavy chain variable region, partial [Bos taurus]
624	gi 509264364	immunoglobulin mu heavy chain variable region, partial [Bos taurus]
625	gi 509264388	immunoglobulin mu heavy chain variable region, partial [Bos taurus]
626	gi 509264397	immunoglobulin mu heavy chain variable region, partial [Bos taurus]
627	gi 98991258	immunoglobulin mu heavy chain variable region, partial [Bos taurus]
628	gi 98991264	immunoglobulin mu heavy chain variable region, partial [Bos taurus]
629	gi 98991268	immunoglobulin mu heavy chain variable region, partial [Bos taurus]
630	gi 98991270	immunoglobulin mu heavy chain variable region, partial [Bos taurus]
631	gi 98991288	immunoglobulin mu heavy chain variable region, partial [Bos taurus]
632	gi 98991290	immunoglobulin mu heavy chain variable region, partial [Bos taurus]
633	gi 98991302	immunoglobulin mu heavy chain variable region, partial [Bos taurus]
634	gi 2353732	immunoglobulin variable region, partial [Bos taurus]

635	gi 2353734	immunoglobulin variable region, partial [Bos taurus]
636	gi 2353736	immunoglobulin variable region, partial [Bos taurus]

Supplementary table 3: Gene ontology analysis using STRING software tool that described pathway description and biological function of significant proteins.

Pathway ID	Pathway description	No. of proteins	Matching proteins in the network (labels)
GO.0008150	Biological process	21	APOA4,ASRGL1,BPIFB1,C4A,CCT4,CFB,CFH,CLU,CNDP2,F2,F5,FGA,FGB,HPX,ITIH1,KNG1,LGALS3BP, RNASE4, RNASE6,SERPINA3,YWHAE
GO.0044699	Single-organism process	15	APOA4, ASRGL1,C4A,CFB,CFH,CLU,F2,F5,FETUB,FGA,FGB,HPX,KNG1,SERPINF2,YWHAE
GO.0009987	Cellular process	15	ASRGL1,CCT4,CLU,F2,F5,FETUB,FGA,FGB,HPX,KNG1,PSMA1,RNASE4,RNASE6,SERPINF2,YWHAE
GO.0043170	Macromolecule metabolic process	14	APOA4,ASRGL1,C4A,CCT4,CFB,CFH,CLU,CNDP2,F2,HPX,ITIH1,PSMA1,RNASE4,RNASE6
GO.0065007	Biological regulation	14	C4A,CFB,CFH,CLU,F2,F5,FGA,FGB,HPX,ITIH1,KNG1,PSMA1,SERPINA3,YWHAE
GO.0050789	Regulation of biological process	13	C4A,CFB,CFH,CLU,F2,FGA,FGB,HPX,ITIH1,KNG1,PSMA1,SERPINA3,YWHAE
GO.0044238	Primary metabolic process	13	APOA4,ASRGL1,C4A,CCT4,CFB,CFH,CLU,CNDP2,F2,HPX,PSMA1,RNASE4,RNASE6
GO.0006950	Response to stress	11	BPIFB1,C4A,CFB,CFH,CLU,F2,F5,FGA,FGB,KNG1,SERPINF2
GO.0019538	Protein metabolic process	11	APOA4,ASRGL1,C4A,CCT4,CFB,CFH,CLU,CNDP2,F2,HPX,PSMA1
GO.0006952	Défense response	9	BPIFB1,C4A,CFB,CFH,F2,FGA,FGB,KNG1,SERPINF2
GO.0048583	Regulation of response to stimulus	9	C4A,CFB,CFH,CLU,F2,HPX,KNG1,PSMA1,SERPINF2
GO.0065008	Regulation of biological quality	9	CLU,F2,F5,FGA,FGB,KNG1,NGF,SERPINF2,YWHAE
GO.0032268	Regulation of cellular protein	8	CLU,F2,HPX,ITIH1,KNG1,NGF,SERPINA3,YWHAE

	metabolic process		
GO.0048519	Negative regulation of biological process	8	CLU,F2,ITIH1,KNG1,NGF,PSMA1,SERPINA3,YWHAE
GO.0048518	Positive regulation of biological process	8	C4A,CFB,CFH,CLU,F2,HPX,NGF,SERPINF2
GO.0002376	Immune system process	7	BPIFB1,C4A,CFB,CFH,FGA,FGB,PSMA1
GO.0048584	Positive regulation of response to stimulus	7	C4A,CFB,CFH,CLU,F2,HPX,SERPINF2
GO.0065009	Regulation of molecular function	7	CLU,ITIH1,KNG1,NGF,SERPINA3,SERPINF2,YWHAE
GO.0048523	Negative regulation of cellular process	7	CLU,F2,ITIH1,KNG1,NGF,SERPINA3,YWHAE
GO.0045087	Innate immune response	6	BPIFB1,C4A,CFB,CFH,FGA,FGB
GO.0030162	Regulation of proteolysis	6	CLU,F2,ITIH1,KNG1,NGF,SERPINA3
GO.0032269	Negative regulation of cellular protein metabolic process	6	F2,ITIH1,KNG1,NGF,SERPINA3,YWHAE
GO.0080134	Regulation of response to stress	6	CLU,F2,HPX,KNG1,PSMA1,SERPINF2
GO.0007596	Blood	5	F2,F5,FGA,FGB,KNG1

	coagulation		
GO.0042060	Wound healing	5	F2,F5,FGA,FGB,KNG1
GO.0010951	Negative regulation of endopeptidase activity	5	ITIH1,KNG1,NGF,SERPINA3,SERPINF2
GO.0045861	Negative regulation of proteolysis	5	F2,ITIH1,KNG1,NGF,SERPINA3
GO.0050776	Regulation of immune response	5	C4A,CFB,CFH,HPX,PSMA1
GO.0006508	Proteolysis	5	ASRGL1,CFB,CNDP2,F2,PSMA1
GO.0031399	Regulation of protein modification process	5	CLU,F2,HPX,SERPINF2,YWHAE
GO.0030168	Platelet activation	4	F2,F5,FGA,FGB
GO.1903034	Regulation of response to wounding	4	F2,KNG1,PSMA1,SERPINF2
GO.0050778	Positive regulation of immune response	4	C4A,CFB,CFH,HPX
GO.0006954	Inflammatory response	4	C4A,F2,KNG1,SERPINF2
GO.0032101	Regulation of response to external stimulus	4	F2,KNG1,PSMA1,SERPINF2
GO.1902533	Positive regulation of intracellular signal transduction	4	CLU,F2,HPX,SERPINF2
GO.0031401	Positive	4	CLU,F2,HPX,SERPINF2

	regulation of protein modification process		
GO.0006956	Complement activation	3	C4A,CFB,CFH
GO.0030193	Regulation of blood coagulation	3	F2,KNG1,SERPINF2
GO.0051258	Protein polymerization	3	F2,FGA,FGB
GO.1903035	Negative regulation of response to wounding	3	F2,KNG1,PSMA1
GO.0032102	Negative regulation of response to external stimulus	3	F2,KNG1,PSMA1
GO.0010959	Regulation of metal ion transport	3	F2,NGF,YWHAE
GO.0006957	Complement activation, alternative pathway	2	CFB,CFH
GO.0030194	Positive regulation of blood coagulation	2	F2,SERPINF2
GO.0032967	Positive regulation of collagen biosynthetic process	2	F2,SERPINF2
GO.0006953	Acute-phase response	2	F2,SERPINF2

GO.0030195	Negative regulation of blood coagulation	2	F2, KNG1
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